

Direct Testimony and Schedules
Mark P. Moeller

Before the North Dakota Public Service Commission
State of North Dakota

In the Matter of the Application of Northern States Power Company
for Authority to Increase Rates for Electric Service in North Dakota

Case No. PU-20-____
Exhibit____(MPM-1)

Capital Investments, Depreciation, and Nuclear Decommissioning

November 2, 2020

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1 **I. INTRODUCTION**

2
3 Q. PLEASE STATE YOUR NAME AND TITLE.

4 A. My name is Mark P. Moeller. I am Director of Capital Asset Accounting for
5 Xcel Energy Services Inc. (XES), which provides services to Northern States
6 Power Company (NSPM or the Company).

7
8 Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

9 A. As a Director of Capital Asset Accounting, I am responsible for various aspects
10 of asset accounting, primarily dealing with policy, book depreciation, tax
11 depreciation, and deferred taxes for capital assets, as well as the related reporting
12 and regulatory requirements for Xcel Energy and its subsidiaries. A description
13 of my qualifications, duties, and responsibilities is included as Exhibit
14 ____ (MPM-1), Schedule 1 to my testimony.

15
16 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

17 A. First, I provide information regarding the Company's material capital additions
18 since our last rate case. I then support the underlying information for the
19 calculation of the level of depreciation expense included in the 2021 Test Year,
20 which includes recommended changes to average service lives, remaining lives,
21 net salvage rates, and depreciation rates, where applicable, for all Company
22 assets used in providing electric service. I also support the Company's
23 recommendation regarding nuclear decommissioning accruals. Unless
24 otherwise noted, my testimony provides total Company information. Company
25 witness Mr. Benj Halama includes the North Dakota electric jurisdictional
26 amounts in his 2021 Test Year revenue requirement.

1 Q. SPECIFICALLY, WHAT DO YOU ADDRESS IN YOUR TESTIMONY?

2 A. My testimony addresses three topics: historical and future capital additions,
3 depreciation expense, and nuclear decommissioning expense. In the capital
4 additions section, I discuss material historical additions which have occurred
5 since our last rate case as well as forecasted additions for the Test Year. In the
6 depreciation section, I present the depreciation changes proposed for the
7 production, transmission, distribution, electric general and intangible, and
8 common general and intangible assets. I discuss the depreciation statistics for
9 all assets in the electric and common utilities. In the nuclear decommissioning
10 section, I present updates to the underlying cost estimate, the fund earnings
11 rates, and the escalation rate.

12

13 Q. WHAT IS THE IMPACT OF THE CHANGES YOU RECOMMEND?

14 A. The change in lives and net salvage rates that I propose in my testimony results
15 in an increase of \$70.7 million in Electric Production depreciation expense at a
16 total NSPM Company level – an increase of \$3.7 million for the North Dakota
17 retail jurisdiction. The primary contributing factor to this increase is the aligning
18 of the remaining depreciable lives for Sherco Units 1 and 2 to their actual lives
19 and updating proposed net salvage rates, which represents \$3.2 million of the
20 overall \$3.7 million North Dakota jurisdictional increase. The Electric
21 Transmission, Distribution, and General (TD&G) assets accounted for an
22 increase of \$6.1 million (\$0.8 million North Dakota jurisdictional) and Common
23 Utility assets decreased expense by \$7.2 million (decrease of \$0.4 million North
24 Dakota jurisdictional).

25

1 **Table 1**

2 **2021 Test Year Depreciation Expense Changes**

3

| (in millions) | Total Company | North Dakota Jurisdictionalized |
|---------------------------------|--------------------------|--|
| Electric Production | \$ 70.7 | \$ 3.7 |
| Electric TD&G | 6.1 | 0.8 |
| Common Utility Assets | (7.2) | (0.4) |
| Nuclear Decommissioning* | N/A | 2.0 |
| Total | \$ 69.6 | \$ 6.1 |

4

5

6

7

8 *Nuclear decommissioning accruals are calculated at the jurisdictional level and not at the NSPM Total Company level.

9

10 These recommended depreciation changes were then applied to the monthly

11 plant and accumulated depreciation balance (i.e., the depreciation reserve) in the

12 forecast period to estimate the change in depreciation expense in the 2021 Test

13 Year.

14

15 The nuclear decommissioning accrual increased by approximately \$2.0 million

16 (North Dakota Jurisdictionalized). With respect to the Nuclear

17 Decommissioning Trust accrual, I am recommending the accrual level to be set

18 at \$2.25 million due to the need to capture decreases in the expected long term

19 return on trust assets and revisions to amounts to be collected in light of

20 changes in the North Dakota jurisdictional allocation.

21

22 **II. CAPITAL ADDITIONS**

23

24 Q. WHAT DO YOU DISCUSS IN THIS SECTION?

1 A. In this section, I will discuss our historical capital additions for the period
2 2013 through 2019 since the Company's last rate case. I will also discuss
3 forecasted capital additions for the 2020 current year and the 2021 Test Year.
4

5 **A. Capital Additions 2013-2019**

6 Q. WHAT WERE THE COMPANY'S CAPITAL ADDITIONS IN THE PERIOD OF 2013-
7 2019?

8 A. The Company placed into service capital additions totaling \$6.8 billion in the
9 period of 2013-2019. Exhibit__(MPM-1), Schedule 2a is a Plant-in-Service
10 Rollforward for the period 2013-2019. Unless otherwise noted, my testimony
11 provides total Company information. Mr. Benj Halama includes the North
12 Dakota electric jurisdictional amounts in his 2021 Test Year revenue
13 requirement.
14

15 Q. WHAT WERE THE PRIMARY DRIVERS OF CAPITAL ADDITIONS IN THE 2013-2019
16 PERIOD?

17 A. From 2013-2019, the Company made a wide variety of investments across our
18 system to provide reliable, safe, cost-effective service to our customers. In
19 particular, initiatives and individual projects in the following areas were the
20 primary drivers of our capital additions: investments in wind farms, regional
21 expansion transmission projects, our nuclear generating fleet, a new natural gas
22 combustion turbine, and updating our information technology and business
23 systems. Below, I provide more information about the Company's investments
24 in each of those areas.
25

26 Q. PLEASE DESCRIBE THE COMPANY'S INVESTMENTS IN WIND FARMS IN THE 2013-
27 2019 PERIOD.

1 A. To harness the excellent wind resource of North Dakota and neighboring states
2 and turn it into emissions-free power for our customers—at a time when market
3 pricing of new wind generation was historically low—the Company invested
4 \$1.3 billion to build 800 megawatts (MW) of wind farms across its system
5 between 2013 and 2019.

6
7 As detailed below, the Commission granted advanced determinations of
8 prudence for most of these additions given the significant benefits that the
9 projects provided to North Dakota customers, including cost savings and a
10 hedge against the volatility of natural gas prices and potential environmental
11 regulation.

12
13 The Company initially invested \$262 million in the 150 MW Border Winds
14 project in Rolette County, North Dakota. The Commission granted the
15 Company an advanced determination of prudence for that project in 2014. Case
16 No. PU-13-742, ORDER APPROVING SETTLEMENT, February 26, 2014.

17
18 The Company initially invested \$274 million to acquire, develop, and own the
19 200 MW Courtenay Wind project in Stutsman County, North Dakota. The
20 Commission granted the Company an advanced determination of prudence for
21 that acquisition and development in 2015, based in large part on the substantial
22 savings for consumers that the project provided over alternatives sources of
23 power. Case No. PU-15-181, ORDER, August 24, 2015.

24
25 The Company initially invested \$333 million in the 200 MW Pleasant Valley
26 wind project in Minnesota. The Commission granted the Company an advanced
27 determination of prudence in 2016. Case No. PU-13-708, ORDER APPROVING

1 SETTLEMENT, March 9, 2016. The location of the project—in close proximity
2 to an existing owned facility allowed for economies of scale of operations and
3 maintenance and in an area of historically-low curtailment of wind generation—
4 made it a particularly compelling value for customers.

5
6 The Company also initially invested \$248 million in the 150 MW Foxtail Wind
7 project in Dickey County, North Dakota and \$166 million in the 100 MW Lake
8 Benton Wind project in Minnesota. For both projects, the Commission granted
9 the Company an advanced determination of prudence in 2018, up to a set
10 amount, based on the substantial savings that the wind investments provided
11 for consumers. Case No. PU-17-120, ORDER ON SETTLEMENT, December 6,
12 2018.

13
14 These wind projects—and the additional projects the Company has added in
15 subsequent years—will continue to provide substantial benefits to customers.

16
17 Q. PLEASE DISCUSS THE COMPANY’S INVESTMENTS IN REGIONAL EXPANSION
18 TRANSMISSION PROJECTS IN THE 2013-2019 PERIOD.

19 A. To meet the growing need for transmission in the region, the Company made
20 capital additions totaling \$1.03 billion in regional expansion transmission
21 projects, including projects in North Dakota, South Dakota, and Minnesota as
22 part of the CapX2020 initiative.

23
24 These CapX2020 projects were major upgrades to the regional transmission
25 system to support local reliability, regional reliability, and renewable generation.
26 Prior to the CapX2020 projects, there had not been a major upgrade to the
27 Upper Midwest’s electric transmission grid in nearly 40 years. Under the

1 CapX2020 initiative, the eleven transmission-owning utilities in Minnesota,
2 North Dakota, South Dakota, and Wisconsin collaborated to study and plan for
3 the future of the regional transmission system. The result was multiple
4 transmission planning studies that supported the development of the Regional
5 Expansion projects.

6
7 Recognizing the benefits of the projects for customers, the Commission granted
8 an advanced determination of prudence for those investments. Case No. PU-
9 09-678, ORDER ADOPTING SETTLEMENT, October 6, 2010. Certain CapX2020
10 projects were placed into service in 2012, with the majority of them placed into
11 service in the period of 2013-2019.

12
13 The projects for which the Commission issued an ADP included a 345 kV line
14 from Monticello, Minnesota to Fargo, North Dakota, including the line itself
15 and required substations. The new transmission line improved reliability in the
16 southern Red River Valley and the Fargo area. The project also supports
17 additional generation development in eastern North Dakota.

18
19 The Company, through its affiliate Northern States Power Company, a
20 Wisconsin corporation (NSPW), also placed into service a 182-mile 345 kV
21 transmission line from La Crosse, Wisconsin to Madison, Wisconsin in concert
22 with American Transmission Company. This resulted in a total capital addition
23 of \$191 million which is recovered through the Interchange Agreement between
24 the Company and NSPW.

25
26 Q. PLEASE DESCRIBE THE COMPANY'S NUCLEAR GENERATING FLEET.

1 A. Xcel Energy owns and operates three nuclear units: one unit in Monticello,
2 Minnesota and two units at Prairie Island in Welch, Minnesota.

3
4 Monticello is a single-unit boiling water reactor rated for gross output at 671
5 MW and was originally licensed by the Nuclear Regulatory Commission (NRC)
6 in 1970. The NRC approved a renewed license for the facility in 2006, allowing
7 the plant to operate through 2030. The Company intends to seek a license
8 extension to allow the plant to operate an additional 10 years, to 2040.

9
10 Prairie Island is a two-unit pressurized water reactor, with each unit rated at 550
11 MW gross output capacity. The NRC licensed Prairie Island's two units in 1973
12 and 1974, respectively. The initial operating licenses were set to expire in 2013
13 and 2014. In 2011, the NRC approved renewed licenses for Prairie Island Units
14 1 and 2, extending their operating lives until 2033 and 2034.

15
16 Nuclear is a critical source of power generation for the Company's customers.
17 Monticello and Prairie Island continue to be two of Xcel Energy's most reliable
18 system-wide baseload electric generation assets, providing almost 30 percent of
19 the electricity to Company's system in the Upper Midwest. Monticello has
20 operated at an average capacity factor of 95 percent over the past four years,
21 including a record-setting 99.3 percent in 2018, a non-refueling year. Similarly,
22 Prairie Island achieved a combined average capacity factor of more than 92
23 percent over the past four years, including a 100 percent capacity factor for Unit
24 2 in 2018 and 100 percent capacity factor for Unit 1 in 2019 (non refueling
25 years).

26

1 These plants are part of a diverse operating portfolio that provides a hedge
2 against changes in resource availability, fossil fuel prices and future emissions
3 regulations. They are important sources of low-cost, base-load power that do
4 not have carbon emissions, and their continued safe, reliable, and efficient
5 operation are critical to the Company's commitment to provide reliable and
6 reasonably priced electricity to North Dakota consumers.

7
8 Q. WHAT WAS THE COMPANY'S OVERALL INVESTMENT IN ITS NUCLEAR
9 GENERATING FLEET IN THE 2013-2019 PERIOD?

10 A. To generate reliable, base load, carbon-free power, the Company invested \$1.8
11 billion in our nuclear generating fleet in the period of 2013-2019.

12
13 Q. PLEASE SUMMARIZE THE COMPANY'S KEY INVESTMENTS IN ITS NUCLEAR FLEET
14 IN THE 2013-2019 PERIOD.

15 A. In the 2013-2019 period, the Company invested in mandated compliance
16 projects, such as safety measures required by federal regulators in the wake of
17 the Fukushima nuclear incident in Japan, safety, cybersecurity, and fire-
18 protection improvements; reliability investments including life cycle
19 management, such as an extended power uprate at Monticello and replacement
20 of a steam generator at Prairie Island; and dry-cask storage for spent nuclear
21 fuel. I provide additional information about those investments below.

22
23 Q. PLEASE DISCUSS THE COMPANY'S INVESTMENTS IN NUCLEAR MANDATED
24 COMPLIANCE IN THE 2013-2019 TIME PERIOD.

25 A. Mandated Compliance includes regulatory, security, and license commitment
26 activities required by Federal or state regulators (normally the NRC), including
27 industry commitments made to the NRC, as well as projects that require NRC

1 approval. The Company made capital additions across Monticello and Prairie
2 Island to implement safety measures required by federal regulators in the wake
3 of the Fukushima nuclear incident in Japan. Such measures included installation
4 of enhanced spent fuel pool instrumentation and modifications to electrical and
5 mechanical systems to augment plant cooling capability.

6
7 The Company also made capital additions for its fire-protection program at
8 Prairie Island and at Monticello, all to reduce the likelihood of a fire incident in
9 the first place and reduce the impacts of any fire that may occur. To ensure
10 protection of generating assets and of the public, the Company also made capital
11 additions for its cyber-security program across Monticello and Prairie Island and
12 added physical security at Monticello.

13
14 Q. PLEASE DISCUSS THE COMPANY'S INVESTMENTS IN NUCLEAR RELIABILITY IN
15 THE 2013-2019 TIME PERIOD.

16 A. The Company's investments in reliability projects improve equipment reliability,
17 reduce maintenance activities, and ensure that plants run efficiently and reliably
18 for their full planned lifecycle.

19
20 In the 2013-2019 period, the Company completed the Life Cycle
21 Management/Extended Power Uprate work at the Monticello nuclear
22 generating plant that was underway at the time of the company's last North
23 Dakota rate case. The Company also invested in reliability projects at Prairie
24 Island, such as replacement of a reactor coolant pump, process control systems,
25 and a cooling tower. The Company also made a major investment in
26 replacement of a steam generator.

27

1 Q. PLEASE DISCUSS THE COMPANY'S CAPITAL ADDITIONS FOR DRY-CASK STORAGE.

2 A. The Company made capital additions for dry cask storage, which are driven by
3 the Federal government's delay in providing a permanent, long-term spent fuel
4 storage facility, and the requirement that the Company store spent fuel on site
5 in the interim. These investments included storage casks, expansion of the
6 independent spent fuel storage installation at Prairie Island, and the loading of
7 spent fuel into casks at Monticello.

8

9 Q. WHAT HAS BEEN THE RESULT OF THE CAPITAL IMPROVEMENTS OF THE
10 NUCLEAR FACILITIES?

11 A. The projects we have undertaken at Prairie Island and Monticello since 2013
12 have yielded significant benefits for customers and the system. In years where
13 there is only one unit scheduled for a refueling outage, the fleet overall now
14 operates at 95% capacity or above. In 2019, which had two units with refueling
15 outages, the fleet performed at 92.6%. One key reason for this high capacity
16 factor was the record run of Prairie Island Unit 2, which ran for 692 consecutive
17 days, the longest run of any Xcel Energy nuclear units in our history. The
18 Company's nuclear fleet is more reliable than it has ever been, and O&M costs
19 for the two facilities are down. In addition, as a result of the improvements
20 made in response to the Fukushima incident and the other security, fire
21 protection, reliability and safety capital improvements made since 2013, the
22 facilities, which have operated safely since the 1970s, are now even safer, more
23 secure, and more resilient.

24

25 Q. PLEASE DISCUSS THE COMPANY'S INVESTMENT IN A NEW NATURAL GAS
26 COMBUSTION TURBINE.

1 A. In 2018, the Company placed into service a new natural gas combustion turbine
2 (Unit 6) at our existing Black Dog generating plant in Minnesota. The Company
3 built the new unit to meet a need in the system, and the choice of natural gas
4 reflects the Company's commitment to a robust mix of generation types. The
5 Commission granted an advanced determination of prudence for this
6 investment. Case No. PU-13-194, ORDER ADOPTING SETTLEMENT, Feb. 26,
7 2014.

8
9 Q. PLEASE DISCUSS THE COMPANY'S KEY INVESTMENTS IN BUSINESS SYSTEMS IN
10 THE 2013-2019 PERIOD.

11 A. To streamline operations and enable employees to perform responsibilities
12 more efficiently, the Company invested in new business systems, specifically a
13 new SAP General Ledger (GL) system and a new Work and Asset Management
14 (WAM) system. The Company also began implementing information
15 technology solutions to support its AGIS initiative. The Company put the new
16 GL in service in 2015, and the first WAM deployment went in service in 2016.

17
18 Q. PLEASE DISCUSS THE COMPANY'S GL AND ITS GL-RELATED INVESTMENTS.

19 A. The GL is the Company's financial record-keeping system. The Company's
20 historical system was reaching the end of its life and its vendor was going to
21 cease providing support. Based on its evaluation of options, the Company
22 decided that replacement of the historical GL with a new GL offered by SAP
23 was the best course of action. The new GL provides better analysis of how
24 business drivers impact accounting results and a better ability to trace
25 connections between Generally Accepted Accounting Principles (GAAP)
26 accounting and individual Federal Energy Regulatory Commission (FERC)

1 accounts, among other benefits. These improvements make the Company's
2 operations more efficient.

3
4 Q. PLEASE DISCUSS THE COMPANY'S WAM AND ITS WAM-RELATED
5 INVESTMENTS.

6 A. A WAM system is the core technology for planning and scheduling utility work,
7 managing outages, procuring materials, and managing assets and inventory.
8 Historically, Xcel Energy had three core WAM systems, but the original
9 software vendors were no longer providing full support or upgrades with robust
10 protection against system failure or cyber-attacks. This situation created
11 potential vulnerabilities and made repairs more costly to our customers with risk
12 of delays that could jeopardize certain aspects of our day-to-day operations.
13 Accordingly, the Company replaced these three old systems with an integrated
14 solution that is based on current technology and works in tandem with the
15 Company's new GL system.

16
17 Q. PLEASE DESCRIBE THE COMPANY'S AGIS INVESTMENTS.

18 A. The Company began capital additions for the AGIS initiative in 2019. The
19 primary AGIS capital driver for 2019 was the purchase of servers for its
20 Advanced Distribution Management System (ADMS). In her direct testimony,
21 Company witness Ms. Kelly Bloch provides more detail regarding these
22 investments and the benefits they provide customers.

1 **B. Capital Additions 2020-2021**

2 Q. WHAT ARE THE COMPANY'S FORECASTED CAPITAL ADDITIONS FOR THE
3 CURRENT YEAR OF 2020?

4 A. The Company forecasts capital additions of \$1.8 billion in the current year of
5 2020. Exhibit__(MPM-1), Schedule 2b is a Plant-in-Service Rollforward for the
6 period 2020-2021. Exhibit__(MPM-1), Schedule 3 shows forecasted
7 expenditures and additions for the period 2020-2021.

8
9 Q. WHAT ARE THE PRIMARY DRIVERS OF CAPITAL ADDITIONS IN T 2020?

10 A. As part of the Company's overall expenditures to provide reliable service to its
11 customers, the following initiatives and individual projects are the key drivers
12 of the Company's capital additions in 2020: investments in wind farms,
13 investments at the Prairie Island nuclear facility, and investment in the AGIS
14 initiative.

15
16 Q. PLEASE DESCRIBE THE COMPANY'S INVESTMENTS IN WIND FARMS IN 2020.

17 A. To increase the amount of emissions-free electricity we are providing to our
18 customers and take advantage of historically low pricing, the Company is
19 placing in service approximately \$978 million for five wind farms in 2020.

20
21 The Company made 2020 capital additions of \$332 million for the 200 MW
22 Blazing Star I wind farm in Minnesota and forecasts additions of \$342 million
23 for the 200 MW Blazing Star II wind farm, also in Minnesota. The Commission
24 granted an advanced determination of prudence for these projects, up to
25 specified amounts. Case No. PU-17-120, ORDER ON SETTLEMENT, December
26 6, 2018.

1 The Company is forecasting 2020 capital additions of \$328 million for the 200
2 MW Crowned Ridge wind farm in South Dakota. Among other components of
3 the overall project, it will include 73 GE 2.3 MW and 15 GE 2.1 MW wind
4 turbines. These turbines are larger than the GE turbines historically in the
5 Company's fleet and demonstrate the Company's commitment to taking
6 advantage of technological improvements to generate as much electricity as
7 possible from a given project footprint. The Commission granted an advanced
8 determination of prudence for the portion of the project for which the
9 Company made a capital addition. Case No. PU-17-120, ORDER ON
10 SETTLEMENT, December 6, 2018.

11
12 The Company has sought, and the Commission has granted, an advanced
13 determination of prudence for the Company to purchase the repowered the
14 Mower Wind project (98.9 MW when repowered). Case No. PU-19-310,
15 ORDER ON SETTLEMENT AGREEMENT, August 26, 2020. In 2020, the Company
16 also will be closing the purchase of the repowered Jeffers Wind (44 MW when
17 repowered) and Community Wind North (26.4 MW when repowered) projects.
18 Company witness Mr. Christopher Shaw discusses the prudence of these
19 investments in his Direct Testimony.

20
21 Q. PLEASE DESCRIBE THE COMPANY'S INVESTMENTS AT PRAIRIE ISLAND NUCLEAR
22 FACILITY IN THE 2020 CURRENT YEAR.

23 A. To continue providing reliable, baseload electricity to customers, the Company
24 is making capital investments in its nuclear fleet, particularly at Prairie Island,
25 including reloading of nuclear fuel in Prairie Island Unit 1, security
26 enhancements, and replacement of process control equipment.

1 Reloading of nuclear fuel is a regular part of operating a reactor. At each
2 refueling, the Company replaces approximately one-third of the nuclear fuel
3 assemblies in the reactor core and performs numerous equipment inspections
4 to ensure safety and proper functioning, including testing and maintenance tasks
5 that the Company can perform only when the reactor is off-line. Nuclear fuel
6 is capitalized because individual fuel assemblies are constructed by the
7 Company and provide multiple years of benefit. Therefore, the fuel assemblies
8 meet the definition of capital and are subsequently depreciated on a units of
9 production or depletion method as they are depleted.

10
11 Q. PLEASE DESCRIBE THE COMPANY’S INVESTMENTS IN THE AGIS INITIATIVE IN
12 THE 2020 CURRENT YEAR.

13 A. As noted above, AGIS is a transformative portfolio of grid modernization
14 investments that will improve reliability, shorten the duration of power outages,
15 integrate intermittent resources, and empower customers with more
16 information to control and track their energy use.

17
18 ADMS, the foundational component of AGIS, is a collection of hardware and
19 software applications that provides operators with enhanced visibility and
20 situational awareness into the distribution system.

21
22 The Field Area Network (FAN) is the communications network that will enable
23 communications between the existing communications infrastructure at the
24 Company’s substations, ADMS, and in the future, other intelligent grid devices
25 and applications.

1 In the 2020 current year, the Company budgets total capital additions for the
2 AGIS initiative of approximately \$14.0 million. In her Direct Testimony, Ms.
3 Bloch provides more detail regarding these investments.

4
5 Q. WHAT ARE THE COMPANY'S FORECASTED CAPITAL ADDITIONS FOR THE 2021
6 TEST YEAR?

7 A. The Company forecasts capital additions of \$1.6 billion in the 2021 Test Year.
8 Exhibit__(MPM-1), Schedule 2b is a Plant-in-Service Rollforward for the
9 period 2020-2021. Exhibit__(MPM-1), Schedule 3 shows forecasted
10 expenditures and additions for the period 2020-2021.

11
12 Q. WHAT ARE THE PRIMARY DRIVERS OF FORECASTED CAPITAL ADDITIONS FOR
13 THE 2021 TEST YEAR?

14 A. For the 2021 test year, the primary drivers of the Company's forecasted capital
15 additions will be investments in additional wind farms, regional transmission
16 expansion, AGIS, and the nuclear generating fleet.

17
18 Q. PLEASE DISCUSS THE COMPANY'S INVESTMENTS IN ADDITIONAL WIND FARMS IN
19 THE 2021 TEST YEAR.

20 A. Similarly to previous years, the Company is investing in wind generation in the
21 2021 test year to take advantage of federal Production Tax Credits and
22 historically-low pricing.

23
24 The Company forecasts 2021 capital additions of \$382 million in the 302 MW
25 Dakota Range Wind project in South Dakota. The Commission granted an
26 advanced determination of prudence for this project. Case No. PU-17-372,
27 ORDER ON SETTLEMENT, December 6, 2018.

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The Company also forecasts 2021 capital additions of \$340 million for the 200 MW Freeborn Wind Farm in Minnesota and Iowa. The Commission granted an advanced determination of prudence for this project too. Case No. PU-17-120, ORDER ON SETTLEMENT, December 6, 2018.

Q. PLEASE DISCUSS THE COMPANY’S INVESTMENTS IN REGIONAL TRANSMISSION EXPANSION IN THE 2021 TEST YEAR.

A. Compared to 2020, the Company is increasing spending on regional transmission expansion in 2021. For example, the Company forecasts a capital addition of \$63 million for the Huntley-Wilmarth line and related substation infrastructure. The Huntley–Wilmarth 345 kV Project is a Midcontinent Independent System Operator, Inc. designated Market Efficiency Project that is designed to provide economic benefits by providing additional transmission capacity to allow low-cost wind generation in southern Minnesota and northern Iowa to reach customers.

Q. PLEASE DISCUSS THE COMPANY’S FORECASTED INVESTMENT IN AGIS IN THE 2021 TEST YEAR.

A. As noted above, AGIS is a transformative portfolio of grid modernization investments that will improve reliability, shorten the duration of power outages, integrate intermittent resources, and empower customers with more information to control and track their energy use.

The Field Area Network (FAN) is the communications network that will enable communications between the existing communications infrastructure at the

1 Company's substations, ADMS, and in the future, other intelligent grid devices
2 and applications.

3
4 Compared to 2020, the Company's investment in 2021 will increase
5 significantly, to a total of approximately \$79 million in 2021. Much of this
6 increase results from the Company in-servicing ADMS in 2021, but the
7 Company's investments in FAN and Advanced Metering Infrastructure (AMI)
8 will also increase. In her direct testimony, Ms. Bloch provides more detail
9 regarding these investments and the benefits they provide customers.

10
11 Q. PLEASE DISCUSS THE COMPANY'S INVESTMENTS IN ITS NUCLEAR GENERATING
12 FLEET IN THE 2021 TEST YEAR.

13 A. The Company forecasts capital additions in the 2021 test year that will maintain
14 the safe, reliable operation of the Company's nuclear fleet, including reloads of
15 nuclear fuel assemblies at Monticello and Prairie Island Unit 2, expansion of the
16 Prairie Island Independent Spent Fuel Storage Installation, and cooling tower
17 improvements.

18
19 As noted, reloading of nuclear fuel is a regular part of operating a reactor. At
20 each refueling, the Company replaces approximately one-third of the nuclear
21 fuel assemblies in the reactor core and performs numerous equipment
22 inspections to ensure safety and proper functioning, including testing and
23 maintenance tasks that the Company can perform only when the reactor is off-
24 line.

1 **III. DEPRECIATION**

2
3 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY?

4 A. The Company is requesting a revision to its remaining lives, net salvage rates,
5 retirement curves, and depreciation rates for its production, transmission,
6 distribution, general, and intangible assets. This section details the changes and
7 includes the supporting information for the requested changes.

8
9 Q. WHAT IS DEPRECIATION?

10 A. The term “depreciation” is a system of accounting that distributes the cost of
11 assets, less net salvage (if any), over the estimated useful life of the assets in a
12 systematic and rational manner. Depreciation is a process of allocation, not
13 valuation. However, the amount allocated to any one accounting period does
14 not necessarily represent an actual loss or decrease in value that will occur during
15 that particular period. The Company accrues depreciation on the basis of the
16 original cost of all depreciable property included in each functional property
17 group. On retirement, the full cost of depreciable property, less the net salvage
18 value, is charged to the depreciation reserve.

19
20 Q. WHAT IS A NET SALVAGE RATE?

21 A. Net salvage is the difference between the gross salvage (what the asset or its
22 remaining scrap was sold for) and the removal cost (cost to remove and dispose
23 of the asset). If the removal cost exceeds gross salvage, net salvage is negative.
24 Some plant assets can experience significant negative removal cost percentages
25 due to the amount of removal cost and the timing of any capital additions versus
26 the retirement. Salvage and removal cost percentages are calculated by dividing

1 the current cost of salvage or removal by the original installed cost of the
2 associated assets.

3
4 Q. WHY IS IT IMPORTANT TO SET THE RIGHT LEVEL OF DEPRECIATION EXPENSE IN
5 A RATE CASE?

6 A. The goal in setting depreciation lives and rates is to match depreciation recovery
7 with the useful lives of assets to ensure current customers are equitably paying
8 for the cost of the asset over the period they receive benefits from the assets,
9 avoiding intergenerational inequity. The level of depreciation expense included
10 in this rate case reflects the depreciation cost of service for the 2021 test year.

11
12 Q. WHAT CHANGES ARE YOU PROPOSING FOR APPROVED LIVES, NET SALVAGE
13 RATES, RETIREMENT CURVES, OR DEPRECIATION RATES IN THIS CASE?

14 A. I propose several changes affecting depreciation expense for production assets
15 due to changing the remaining life and updating the dismantling cost that is the
16 basis of the negative net salvage rate. For transmission, distribution, general,
17 and intangible assets, I propose changes to the average remaining life
18 depreciation rates based on underlying changes to the average service life,
19 retirement curves, and net salvage rates. I discuss the full scope of depreciation
20 expense changes proposed in my testimony below; however, the major drivers
21 to the proposed change in depreciation expense are as follows:

- 22 • *Steam Production*, shortening the remaining lives of Sherco Units 1 and 2,
23 lengthening the remaining lives of the Red Wing and Wilmarth plants,
24 and increasing the negative net salvage rate for all Steam Production
25 plants;
- 26 • *Other Production*, shortening the remaining life for High Bridge;
27 lengthening the lives for Angus Anson Units 2 through 4, Black Dog 5

1 (FERC Account 341 only), and Blue Lake Units 1 through 4 and Units
2 7&8; increasing the negative net salvage rate on most plants; and
3 providing new remaining lives and negative net salvage rates for Black
4 Dog Unit 6 and the Pleasant Valley, Border Winds, Courtenay, Foxtail,
5 Lake Benton, Blazing Star I and II, Jeffers, Community Wind North,
6 Mower, and Crowned Ridge wind facilities; and

- 7 • *Transmission, Distribution, General, and Intangible (TD&G)*, updating new
8 average service lives, retirement curves, net salvage rates, and
9 depreciation rates for all assets in accordance with the most recent
10 depreciation study and requesting initial parameters for several new
11 accounts or subaccounts of assets.

12
13 The depreciation expense changes are supported by several exhibits to my
14 testimony. Exhibit__(MPM-1), Schedules 4-6 are related to the Electric
15 Production segment. Schedule 4 is the 2020 Dismantling Study performed by
16 TLG Services (TLG) on the Company's production assets. Schedule 5 is a
17 summary of the proposed remaining lives and net salvage rates for each plant
18 by FERC account. Schedule 6 is a calculation of proposed net salvage rates and
19 a comparison of net salvage rates currently approved compared to the proposed
20 rates.

21
22 Exhibit__(MPM-1), Schedules 7-9 support the average service lives, net salvage
23 rates, and retirement curves for the transmission, distribution, electric general,
24 and common general assets, using plant and depreciation reserve balances at
25 December 31, 2019. Schedule 7 is the 2017 Depreciation Study performed by
26 Alliance Consulting Services (Alliance) on the Company's TD&G assets.
27 Schedule 8 is a summary of the currently approved and proposed average

1 service lives, net salvage rates, depreciation rates, and retirement curve for
 2 segment by FERC account. Schedule 9 shows how the proposed depreciation
 3 rates were calculated.

4
 5 All of these changes are summarized in Table 2, below, which shows the overall
 6 change to depreciation expense by functional class based on plant and
 7 depreciation reserve balances requested for the 2021 test year.

8
 9 **Table 2**
 10 **2021 Test Year**
 11 **Summary of Depreciation Expense Change**

| Functional Class | Change in Depreciation Expense (Total Company) | Change in Depreciation Expense (ND Jurisdiction) |
|---|---|---|
| <i>Electric Utility</i> | | |
| Steam Production | \$56,415,327 | \$2,919,129 |
| Hydro Production | (35,867) | (1,856) |
| Other Production | 14,312,787 | 740,594 |
| Total Electric Production | \$70,692,247 | \$3,657,867 |
| Transmission | \$9,215,760 | \$476,856 |
| Distribution (ND Located Only) | 513,145 | 513,145 |
| Electric General | (6,074,593) | (318,695) |
| Electric Intangibles | 2,448,584 | 128,461 |
| Total Electric Transmission, Distribution, and General | \$6,102,896 | \$799,767 |
| Total Electric Utility | \$76,795,143 | \$4,457,634 |
| <i>Common Utility</i> | | |
| Common General | \$(7,889,249) | \$(413,898) |
| Common Intangibles | 674,372 | 35,380 |
| Total Common Utility | \$(7,214,877) | \$(378,518) |
| Total Depreciation Expense Change | \$69,580,266 | \$4,079,116 |

1
2 Unless specifically stated, all depreciation numbers discussed above and later in
3 my testimony are at total NSPM Company level. Mr. Halama provides the
4 North Dakota jurisdictional costs for the 2021 Test Year in his testimony.

5
6 **A. Production Assets**

7 Q. DESCRIBE THE CHANGES TO PRODUCTION ASSETS AND HOW IT IMPACTS
8 DEPRECIATION EXPENSE.

9 A. Production assets use a remaining life method to determine depreciation
10 expense, which is the current net plant adjusted for expected net salvage divided
11 by the current remaining life. The remaining lives for the production assets
12 were evaluated based on our expectations for operating each unit at a generating
13 station, with the common assets (those assets shared by all units) at the
14 generating station assuming the remaining life of the longest-lived unit. We
15 meet with the employees who are knowledgeable about the planning,
16 construction, and operations at each facility. During these meetings, the
17 Company reviews each facility to:

- 18 • Understand the major overhauls, rebuilds, and routine construction
19 projects performed in the past few years;
- 20 • Consider the scope of current and upcoming projects; and,
- 21 • Forecast the likelihood of the facility achieving the currently approved
22 remaining life in light of the past, current, and near future projects.

23
24 We consider these items along with our plans presented in our current resource
25 planning cycle to understand the operational life of each facility and determine
26 an appropriate remaining life that would be consistent with the likely actual life
27 of a particular facility. Exhibit__(MPM-1), Schedules 4-6 provide detail

1 comparing depreciation expense using currently approved lives and net salvage
2 rates set in 2008 versus using the lives and net salvage rates as proposed in this
3 filing.

4
5 For the negative net salvage rates, the Company utilized a comprehensive 2020
6 Dismantling Study prepared by TLG for all steam, hydro, and other production
7 electric generating plants. The Dismantling Study is included as
8 Exhibit__(MPM-1), Schedule 4.

9
10 Q. IN GENERAL, WHAT CHANGES WERE MADE TO REMAINING LIVES?

11 A. To begin our analysis of remaining lives, we incorporated a seven (7) year
12 passage of time adjustment to the last Commission-approved remaining lives of
13 all facilities. The passage of time adjustment does not change the annual
14 depreciation accrual, but simply reflects that our production facilities as of
15 January 1, 2020 have aged 7 years since January 1, 2013, when the depreciation
16 expense was last updated for the Company.

17
18 We also adjusted remaining lives to align the terminal retirement date with
19 current expectations. Remaining lives for depreciation purposes have not been
20 updated for North Dakota rates since 2008. Given this passage of time, it is
21 necessary for us to update remaining lives with current reality.

22
23 The majority of the depreciation expense increase for production was due to
24 shortening the remaining lives for Sherco Units 1 and 2, consistent with the
25 Company's decision to retire these units in 2026 and 2023, respectively. The
26 depreciable life for Sherco Unit 1 was shortened by 8 years from the
27 Commission's last approved remaining life in 2008 (January 1, 2035), resulting

1 in a remaining life of 6 years as of January 1, 2021. Sherco Unit 2 remaining
2 depreciable life was shortened by 11 years from the Commission's last approved
3 remaining life in 2008 (January 1, 2035), resulting in a remaining life of 3 years.
4 Mr. Shaw discuss the retirement of Sherco 1 and 2 further in his Direct
5 Testimony. For the structures and improvement account, the remaining life
6 was set to 6 years for the common assets for Sherco Units 1 and 2, which is the
7 longest life of the two units. The change to the remaining lives and net salvage
8 for Sherco Units 1 and 2 is 87 percent of the total \$70.7 million dollar
9 production increase. I discuss the reasons for these changes in more detail
10 below.

11
12 In addition to the Sherco remaining life changes, the remaining lives for the Red
13 Wing and Wilmarth refuse derived fuel (RDF) steam plants were lengthened 10
14 years due to extending the contracts with the RDF suppliers. The previous
15 contracts expired in 2017. Prior to the end of the term, a new agreement was
16 reached to provide RDF through 2027.

17
18 Changes to lives within the Other Production function include:

- 19 • Angus Anson Units 2&3 to operate through 2040 and Unit 4 to operate
20 into 2045. Unit 3 had a major rotor out overhaul in 2018/2019 and Unit
21 2 will have a similar overhaul in 2021/2022. This capital expense to
22 rebuild the combustion turbine will extend the life into 2040 per
23 manufacturer recommendations and expectations based on the estimated
24 number of peaking plant unit starts and hours. Unit 4 is being maintained
25 in accordance with manufacturer recommendations. Based on the
26 manufacturer's expectations along with revised estimations of the

1 number of peaking plant unit starts and hours, the Company is
2 anticipating operating the unit until May 31, 2045;

- 3 • Black Dog Unit 5 FERC Structures and Improvements account life was
4 extended to match that of the newly completed Unit 6. The Company
5 plans to dismantle the structures at Unit 5 and Unit 6 simultaneously at
6 the retirement date of the unit with the longest life in order to minimize
7 the amount spent to decommission the facility. Therefore, Unit 5 will not
8 be dismantled until Unit 6 is also retired. This practice can be seen in the
9 lives of the Structures and Improvements accounts for several of our
10 other plants including Angus Anson and Blue Lake;
- 11 • Blue Lake Units 1-4 extended through June 2023. These units were
12 analyzed based on the number of starts and the hours run, and it was
13 determined that with minimal operating costs, the Company would
14 anticipate them lasting through mid-2023;
- 15 • Blue Lake Units 7&8's combustion turbines are the same model as Angus
16 Anson Unit 4, and they were installed in the same year. Plant personnel
17 maintain these units on a similar level and timeframe and, therefore, these
18 units are expected to have a similar end of life date. Thus, we are
19 requesting a retirement date of May 31, 2045;
- 20 • High Bridge was converted from Steam Production to Other Production
21 in 2008. A 40-year life from initial in-servicing aligns this plant with the
22 initial lives of Riverside and Black Dog Unit 6 ; and
- 23 • the Luverne Wind-to-Battery asset is to be retired as of January 1, 2021.
24 This is a one-megawatt (MW) wind energy battery-storage system
25 installed in December 2009 and was connected to a nearby 11 MW wind
26 farm formerly owned by Minwind Energy, LLC. When the Minwind

1 facility was sold, the new owner severed the connection with the battery
2 project. Given the battery's age and outdated technology, the Company
3 is retiring the asset. The battery was in-serviced with an initial life of 15
4 years. The Company is requesting that the Commission approve a
5 remaining life of zero years as of January 1, 2021, which would accelerate
6 the retirement date by three years and approve a net salvage rate of
7 negative 135.6 percent in order to fully depreciate and retire the battery
8 and then safely remove and dispose of it.

9
10 Table 3 summarizes all the generating units with a change to remaining lives.

1 **Table 3**

2 **Production Remaining Life Changes**

| 3 | | | Proposed | |
|----|--|------------------------|----------------------|-------------------|
| 4 | | Current | Remaining | Expected |
| 5 | Functional Class/Unit | depreciable end | Life (Years) | actual |
| 6 | | of life | as of January | retirement |
| 7 | | | 1, 2021 | date |
| 6 | <u>Steam Production</u> | | | |
| 7 | A.S. King | June 2037 | 16.5 | June 2037 |
| 8 | Red Wing | Dec. 2017 | 7 | Dec. 2027 |
| 9 | Sherco Unit 1 | Dec. 2034 | 6 | Dec. 2026 |
| 10 | Sherco Unit 2 | Dec. 2034 | 3 | Dec. 2023 |
| 11 | Sherco Unit 3 | Dec. 2034 | 14 | Dec. 2034 |
| 12 | Wilmarth | Dec. 2017 | 7 | Dec. 2027 |
| 13 | <u>Hydro Production</u> | | | |
| 14 | Hennepin Island and Upper Dam | Feb. 2034 | 13.2 | Feb. 2034 |
| 15 | St. Croix Falls | Dec. 2027 | 7 | Dec. 2027 |
| 16 | <u>Other Production</u> | | | |
| 17 | Angus Anson Units 2 & 3 (FERC 341) | Dec. 2038 | 24.4 | May 2045 |
| 18 | Angus Anson Units 2 & 3 (FERC 342-346) | Dec. 2038 | 20 | Dec. 2040 |
| 19 | Angus Anson Unit 4 | Dec. 2038 | 24.4 | May 2045 |
| 20 | Black Dog Unit 5 (FERC 341) | Dec. 2031 | 37.3 | March 2058 |
| 21 | Black Dog Unit 5 (FERC 342-346) | Dec. 2031 | 11 | Dec. 2031 |
| 22 | Blue Lake Units 1-4 (FERC 341) | May 2035 | 24.4 | May 2045 |
| 23 | Blue Lake Units 1-4 (FERC 342-346) | Dec. 2012 | 2.5 | June 2023 |
| 24 | Blue Lake Units 7&8 | May 2035 | 24.4 | May 2045 |
| 25 | Grand Meadow | Nov. 2033 | 12.9 | Nov. 2033 |
| 26 | High Bridge | May 2053 | 27.4 | May 2048 |
| 27 | Inver Hills | Dec. 2026 | 6 | Dec. 2026 |
| 28 | Nobles | Nov. 2035 | 14.9 | Nov. 2035 |
| 29 | Riverside | Feb. 2049 | 28.2 | Feb. 2049 |
| 30 | Wind-to-Battery | Dec. 2023 | 0 | Jan. 2021 |

1 Q. HAS THE COMPANY PREVIOUSLY REQUESTED THAT THE COMMISSION ALIGN
2 THE REMAINING LIVES OF SHERCO UNIT 1, SHERCO UNIT 2, AND THE COMMON
3 FACILITIES WITH THE ACTUAL LIVES OF THESE FACILITIES?

4 A. Yes. In our 2007 North Dakota rate case (Case No. PU-07-776), the Company
5 sought to align the remaining lives of these facilities with the resource plan
6 remaining lives reasonably known at that time. This proposal was contested in
7 the case and a settlement was reached setting the remaining lives of Sherco Unit
8 1, Sherco Unit 2, and the common facilities according to industry averages, as
9 recommended by North Dakota Advocacy Staff, resulting in remaining lives of
10 these facilities set to 2034.

11

12 Q. DID THE COMPANY SEEK ANY CHANGES TO THE SHERCO UNIT 1, SHERCO UNIT
13 2, AND COMMON FACILITIES REMAINING LIVES IN ITS LAST NORTH DAKOTA
14 RATE CASE (CASE NO. PU-12-813)?

15 A. No. The settlement agreement approved in our 2007 North Dakota rate case
16 set forth that the Company “will use the principles adopted in Case No. PU-07-
17 776 in establishing depreciation rates for North Dakota, including: Extend the
18 service lives for the Sherco Generation Station,” To adhere to this
19 principle, the Company did not, therefore, seek any changes to the remaining
20 lives of these facilities in Case No. PU-12-813. However, the settlements in
21 Case No. PU-07-776 and Case No. PU-12-813 do not bar the Company from
22 seeking to update service lives and depreciation rates in this matter, and too
23 much time has passed since the settlement in Case No. PU-07-776. It no longer
24 makes sense for the Company to use service lives that were agreed-upon
25 approximately 12 years ago.

1 Q. HAVE ANY OF THE COMPANY'S OTHER JURISDICTIONS DENIED THE COMPANY'S
2 REQUESTS TO ALIGN THE REMAINING LIVES OF THESE FACILITIES WITH THE
3 ACTUAL LIVES?

4 A. No. In fact, around the same time as we made our request in 2007 to the North
5 Dakota Commission, Minnesota and South Dakota both set the remaining lives
6 of Sherco Unit 1, Sherco Unit 2, and the common facilities to 2022. Minnesota
7 currently recognizes 2023 for Sherco Unit 2 and 2026 for Sherco Unit 1 and the
8 common facilities' remaining lives. South Dakota currently recognizes 2023 as
9 the remaining lives for these facilities. The remaining lives of Sherco Unit 1,
10 Sherco Unit 2, and the common facilities in Michigan and Wisconsin are set
11 according to a composite calculation based on the commission approvals from
12 Minnesota, South Dakota, and North Dakota. North Dakota, is, therefore, the
13 only jurisdiction that has failed to allow us to align our remaining lives of Sherco
14 1 and 2 and the common facilities with their actual lives.

15

16 Q. ARE THERE NEW PRODUCTION ASSETS WITH NEW REMAINING LIVES?

17 A. Several new generation units were placed into service since the Company's last
18 rate case. These include Black Dog Unit 6 (March 2018); Pleasant Valley Wind
19 (November 2015); Border Winds (December 2015); Courtenay Wind
20 (November 2016); Lake Benton Wind (November 2019); and Foxtail Wind
21 (December 2019). Consistent with the presentation of evidence in the applicable
22 ADP proceedings, the Company is using a 25 year life for wind production
23 assets, and we have established a 40 year initial life for Black Dog Unit 6
24 consistent with the lives assumed for the High Bridge and Riverside Other
25 Production plants. Table 4 summarizes the new generating units' remaining life.

26

1 **Table 4**

2 **Remaining Lives on New Production Units**

3

| Functional Class/Unit | Remaining Life at January 1, 2021 (in years) | Proposed Retirement Date |
|-------------------------|--|--------------------------------|
| <i>Other Production</i> | | |
| Black Dog Unit 6 | 37.3 | March 2058 |
| Pleasant Valley Wind | 20.0 | December 2040 |
| Border Winds | 20.0 | December 2040 |
| Courtenay Wind | 20.9 | November 2041 |
| Lake Benton Wind | 24.9 | November 2044 |
| Foxtail Wind | 25.0 | December 2044 |

4

5

6

7

8

9

10

11 Q. ARE THERE ANY NEW PRODUCTION ASSETS PLANNED TO GO INTO SERVICE IN

12 2020 AND THE 2021 TEST YEAR?

13 A. Yes. There are seven new wind facilities that we plan to place into service in

14 2020 and 2021. They include Blazing Star I, Jeffers, Community Wind North,

15 Mower, and Crowned Ridge in 2020, and Freeborn and Dakota Range in 2021.

16 The Company proposes that these production assets use a 25-year life from

17 their respective in-service dates.

18

19 Q. IN GENERAL, WHAT CHANGES WERE MADE TO THE PRODUCTION NET SALVAGE

20 RATES?

21 A. Every five years, we commission a Dismantling Study to determine net salvage

22 rates for our production assets. Our 2020 Dismantling Study is included as

23 Exhibit__(MPM-1), Schedule 4 and it is a site-specific cost estimate for all the

24 Electric Production assets, including Hydro Production assets. The main

25 purpose of the 2020 Dismantling Study was to estimate the present-day costs

26 for retiring and demolishing the facilities, also known as final removals of

1 existing facilities. A complete list of the assumptions used in the cost estimates
2 is included in my Schedule 4.

3
4 Q. WHAT CHANGES TO THE PRODUCTION NET SALVAGE RATES ARE BEING
5 PROPOSED?

6 A. Except for a few units, the general trend is toward a more negative net salvage
7 rate due to the increasing costs of removal. The Hydro Production Hennepin
8 Island and Upper Dam units show a slight decrease in cost of removal as well
9 as Nobles Wind. Exhibit__(MPM-1), Schedule 6, is the comparison of present
10 and proposed net salvage rates. To calculate the proposed negative net salvage
11 rates, we took the dismantling cost estimate for the entire facility and allocated
12 it to each unit. Once allocated to each unit, the unit dismantling cost is divided
13 by the unit's plant balance at January 1, 2020 to get the negative net salvage rate
14 for each unit. The proposed percent changes to the net salvage rates for
15 production assets are summarized in Table 5.

1 **Table 5**

2 **Production Net Salvage Rate Changes**

| 3 | | | Change in |
|----|-------------------------|------------------|------------------------------|
| 4 | Functional Class/Unit | Change in Net | removal reserve |
| 5 | | Salvage Rate (%) | by end of life |
| | | | (in millions) |
| 6 | <u>Steam Production</u> | | |
| 7 | Allen S. King | -3.7% | \$26.5 |
| 8 | Red Wing | -0.2% | \$0.1 |
| 9 | Sherco Unit 1 | -10.0% | \$72.2 (combined U1 & U2) |
| 10 | Sherco Unit 2 | -10.0% | |
| 11 | Sherco Unit 3 | -3.6% | \$26.9 |
| 12 | Wilmarth | -2.8% | \$1.7 |
| 13 | <u>Hydro Production</u> | | |
| 14 | Hennepin Island | +3.3% | (\$0.6) |
| 15 | St. Croix Falls | -7.5% | \$0.2 |
| 16 | Upper Dam | +3.3% | (\$0.1) |
| 17 | <u>Other Production</u> | | |
| 18 | Angus Anson Units 2 & 3 | -6.8% | \$5.9 |
| 19 | Angus Anson Unit 4 | -2.0% | \$1.0 |
| 20 | Black Dog Unit 5 | -4.7% | \$9.2 |
| 21 | Blue Lake Units 1-4 | -18.7% | \$4.6 |
| 22 | Blue Lake Units 7 & 8 | -7.5% | \$5.4 |
| 23 | Grand Meadow Wind | -3.8% | \$7.6 |
| 24 | High Bridge | -1.2% | \$4.7 |
| 25 | Inver Hills | -8.4% | \$5.1 |
| 26 | Nobles Wind | +0.2% | (\$1.2) |
| 27 | Riverside | -8.2% | \$25.3 |
| 28 | Wind-to-Battery | -135.6% | \$5.6 |

29 Q. FOR THE WIND PRODUCTION ASSETS GOING INTO SERVICE IN 2020 AND THE
30 2021 TEST YEAR, WHAT IS THE RECOMMENDED NET SALVAGE RATE?

31 A. There are seven new wind facilities that plan to place into service in 2020 and
32 2021. They include Blazing Star I, Jeffers, Community Wind North, Mower, and

1 Crowned Ridge in 2020, and Freeborn and Dakota Range in 2021. The
2 Company proposes these production assets use a negative 10.5 percent for the
3 net salvage rate.

4
5 Q. WHAT IS THE CHANGE IN NET SALVAGE FOR PRODUCTION ASSETS THAT WERE
6 PLACED IN SERVICE SINCE THE LAST NORTH DAKOTA RATE CASE BUT PRIOR TO
7 THE CURRENT YEAR?

8 A. There were six facilities placed in service prior to 2020 but after the last North
9 Dakota rate case in 2013. These are the Pleasant Valley, Border Wind,
10 Courtenay, Lake Benton, and Foxtail wind farms as well as Black Dog Unit 6.
11 Table 6 below shows the current net salvage rate used to calculate North Dakota
12 jurisdictional depreciation expense and the proposed rate based on the 2020
13 Dismantling Study.

14
15 **Table 6**
16 **Net Salvage Rates for New Plants**

| 17 Unit | 18 Current Net 19 Salvage % | 20 Proposed Net 21 Salvage % |
|---------------------|--------------------------------|---------------------------------|
| 22 Black Dog Unit 6 | -5.0% | -10.3% |
| 23 Blazing Star 1 | -8.5% | -11.6% |
| 24 Border Winds | -6.6% | -9.5% |
| 25 Courtenay | -6.9% | -10.4% |
| 26 Foxtail | -6.4% | -9.1% |
| 27 Lake Benton | -8.5% | -10.8% |
| Pleasant Valley | -8.5% | -11.7% |

28 Q. PLEASE SUMMARIZE THE PROPOSED CHANGES TO DEPRECIATION EXPENSE FOR
29 PRODUCTION ASSETS INCLUDED IN THE TEST YEAR.

30 A. All of these changes are summarized in Table 2, above, which shows the overall
31 \$70.7 million NSPM total Company increase to depreciation expense by

1 functional class based on plant and depreciation reserve balances requested for
2 the 2021 Test Year. Mr. Halama provides the revenue requirement impact of
3 these changes for the 2021 Test Year.

4
5 **B. TD&G Assets**

6 Q. WHAT ARE TD&G ASSETS?

7 A. TD&G assets refer to all assets in the Transmission, Distribution, and General
8 functional classes of assets. General assets can be either Electric Utility only
9 (e.g. communication equipment which specifically supports only the Electric
10 segment) or Common Utility (e.g. a service truck which can be deployed to
11 support either Gas or Electric repairs). Common Utility assets are allocated out
12 to the Electric and Gas segments based on various allocation methods.

13
14 Q. WHAT IS THE PURPOSE OF A TD&G DEPRECIATION STUDY?

15 A. A depreciation study is a comprehensive analysis of all TD&G assets in order
16 to determine the statistical parameters for each account or group of assets to set
17 depreciation rates and lives. The depreciation study encompasses four distinct
18 phases. The first phase involves data collection and field interviews. The
19 second phase is an initial data analysis. The third phase evaluates the
20 information and analysis. Finally, the fourth phase involves the calculation of
21 depreciation rates and documents the corresponding recommendations.

22
23 Q. WHEN WAS A TD&G DEPRECIATION STUDY LAST PERFORMED?

24 A. The Company directed Alliance Consulting Group to perform a comprehensive
25 depreciation study (2017 Alliance Study) for the TD&G assets for the electric,
26 gas, and common utilities. This study is performed every 5 years so the next
27 study will be performed in 2022. Although gas assets were included in the 2017

1 Alliance Study, they are not part of this proceeding. All Company assets were
2 included in the 2017 Alliance Study regardless of where they were located. The
3 2017 Alliance Study is included as Exhibit__(MPM-1), Schedule 7.

4
5 In the 2017 Alliance Study, the depreciable lives and net salvage rates for TD&G
6 assets were reviewed. Their analysis included interviews with operating
7 personnel responsible for purchase, maintenance, and utilization of the
8 equipment. For the 2017 Alliance Study, the lives were adjusted if factors such
9 as market forces, manufacturer expected life, technological obsolescence,
10 business planning, known causes of retirement, and changes in expected future
11 utilization affected the useful life of the asset.

12
13 Q. PLEASE PROVIDE AN OVERVIEW OF THE ANALYSIS THAT WAS DONE TO
14 DETERMINE DEPRECIATION RATES FOR TD&G ASSETS.

15 A. The 2017 Alliance Study was only used for the resulting statistics (average
16 service life, net salvage rate, and retirement curve) and not for the determination
17 of the depreciation rate. The calculation of the average remaining life
18 depreciation rate was done by Company personnel using the North Dakota
19 depreciation reserve in conjunction with the depreciation statistics from the
20 2017 Alliance Study. The 2017 Alliance Study is included as Exhibit__(MPM-
21 1), Schedule 7. Exhibit__(MPM-1), Schedule 8 compares the presently
22 approved depreciation rates and parameters to the proposed values. The
23 depreciation rate calculation is shown in Exhibit__(MPM-1), Schedule 9.

24
25 As a result of the comprehensive 2017 Alliance Study, we propose new
26 depreciation lives, net salvage rates, retirement curves, and depreciation rates
27 for TD&G assets in this filing to better reflect the expected useful lives of our

1 assets as well as removal costs and expected salvage. In general, depreciation
2 lives are lengthening slightly and net salvage rates are becoming more negative
3 due to increasing removal costs and decreasing gross salvage values. We also
4 continue the use of an Average Remaining Life (ARL) method. This method
5 allows an automatic true-up of differences created between the theoretical and
6 actual reserves over the remaining lives of the assets.

7
8 Q. AS A RESULT OF THE 2017 ALLIANCE STUDY, WHAT CHANGES TO ELECTRIC
9 TRANSMISSION AVERAGE SERVICE LIVES AND NET SALVAGE RATES ARE BEING
10 PROPOSED?

11 A. For electric transmission accounts, the lives for half of the accounts increased.
12 There are seven accounts, three that have increasing lives, one that had a
13 decreasing life, and the lives of the other three accounts were unchanged. The
14 account with the greatest change in life is FERC Account 354, Transmission
15 Towers and Fixtures, which increased by five years. There is also a trend toward
16 higher negative net salvage, with five accounts increasing (i.e. more negative),
17 their negative net salvage and the remaining two accounts remaining unchanged.
18 The account with the largest increase in negative net salvage is FERC Account
19 355, Poles and Fixtures, where the net salvage moved from negative 35 percent
20 to negative 50 percent. There is a new account included for the first time, FERC
21 Account 359, Roads and Trails. There are currently no assets in this account; it
22 was added in anticipation of future additions. The average service life was set
23 at 60 years with a zero net salvage rate.

24
25 Q. WHAT CHANGES TO ELECTRIC DISTRIBUTION AVERAGE SERVICE LIVES AND NET
26 SALVAGE RATES ARE BEING PROPOSED?

1 A. There are 12 electric distribution accounts, of which six have increasing lives,
2 one has a decreasing life, and the lives of the other five accounts are unchanged.
3 The accounts with the greatest change in life are FERC Account 366,
4 Underground Conduit, and FERC Account 367, Underground Conductor and
5 Devices, both of which moved four years longer in life. There is also a trend
6 toward higher negative net salvage with eight accounts increasing (i.e. more
7 negative) their negative net salvage, one account decreased its negative net
8 salvage, and the remaining three accounts remaining unchanged. The account
9 with the largest increase in negative net salvage is FERC Account 364
10 Distribution Poles, Towers, and Fixtures where the net salvage moved from
11 negative 100 percent to a negative 120 percent. The analysis of distribution
12 assets used only North Dakota located assets.

13

14 Q. WHAT CHANGES TO ELECTRIC GENERAL AVERAGE SERVICE LIVES AND NET
15 SALVAGE RATES ARE BEING PROPOSED?

16 A. For electric general accounts, the lives for most of the accounts remained the
17 same. There are 17 accounts, three that have increasing lives, four that have
18 decreasing lives, and the lives of the other 10 accounts were unchanged. The
19 account with the greatest change in life is FERC Account 392.3, Trailers, which
20 moved three years shorter in life. There is also a slight trend toward higher
21 positive net salvage with five accounts increasing their positive net salvage and
22 the remaining 12 accounts remaining unchanged. The account with the largest
23 increase in positive net salvage is FERC Account 392.3, Trailers, where the net
24 salvage moved from zero percent to a positive 20 percent, which equates to a
25 change of 20 percent.

26

1 Q. WHAT CHANGES TO COMMON GENERAL AVERAGE SERVICE LIVES AND NET
2 SALVAGE RATES ARE BEING PROPOSED?

3 A. For common general accounts, the lives for most of the accounts remained the
4 same. There are 15 accounts, four that have increasing lives, four that have
5 decreasing lives, and the lives of the other seven accounts were unchanged. The
6 account with the greatest decrease in life is FERC Account 390, Structures and
7 Improvements, which moved five years shorter in life. There is also a slight
8 trend toward higher positive net salvage with five accounts increasing their
9 positive net salvage, one account increasing their negative net salvage, and the
10 remaining nine accounts remaining unchanged. The account with the largest
11 increase in positive net salvage is FERC Account 392.3, Trailers, where the net
12 salvage moved from zero percent to a positive 20 percent. The account with
13 the largest increase in negative net salvage is FERC Account 390, Structures and
14 Improvements, where the net salvage moved from negative 20 percent to a
15 negative 25 percent.

16
17 Additionally, the Company is proposing a new subaccount under FERC
18 Account 397 Communication Equipment for Smart Grid assets, specifically, the
19 Advanced Grid Intelligence and Security (AGIS) Field Area Network (FAN)
20 equipment. This equipment is discussed in more detail in the direct Testimony
21 of Ms. Bloch. The Company is proposing a 10-year Average Service Life with
22 a zero net salvage percent, which means that the expected salvage will equal the
23 cost to remove the equipment. This is consistent with the current parameters
24 of other similar communication assets. These assumptions result in a 10.00
25 percent initial depreciation rate.

26

1 Q. WHAT CHANGES TO ELECTRIC AND COMMON INTANGIBLE AVERAGE SERVICE
2 LIVES AND NET SALVAGE RATES ARE BEING PROPOSED?

3 A. For both electric and common intangible accounts, no life or net salvage
4 changes are recommended to existing accounts. FERC Account 302, Franchises
5 and Consents, has been added to the schedules, and these assets are amortized
6 over the term of the individual franchise agreements. Also, a new sub account
7 for FERC Account 303, Software, was added for the new large base computer
8 systems for the General Ledger and Work and Asset Management. This group
9 has a proposed average life of 15 years. Common intangible had previously
10 approved categories of three, five, seven, and ten year lives. Electric intangible
11 only had a five-year life category. Therefore, we are adding new sub accounts to
12 the electric utility so each utility has the categories of three, five, seven, ten, and
13 fifteen year lives in anticipation of future additions.

14

15 Q. IS THE COMPANY PROPOSING TO CONTINUE THE USE OF AVERAGE REMAINING
16 LIFE DEPRECIATION RATES FOR TD&G?

17 A. Yes.

18

19 **IV. NUCLEAR DECOMMISSIONING TRUST**

20

21 Q. WHAT DO YOU DISCUSS IN THIS SECTION?

22 A. This section addresses the changes to the calculation of the nuclear
23 decommissioning accrual that have occurred since the last case. There is a new
24 engineering cost estimate, updated escalation and earnings rates, current bank
25 balances, and elimination of the Escrow Fund that must now be reflected in
26 current rates.

27

1 Q. WHAT IS THE NUCLEAR DECOMMISSIONING ACCRUAL?

2 A. Nuclear decommissioning accrual is the method used to accumulate the final
3 removal costs for the Company's three nuclear units. The amounts collected
4 through general rates are deposited externally in a trust fund per Nuclear
5 Regulatory Commission (NRC) rules. The annual accruals are calculated from
6 a detailed engineering cost estimate for removal of the plant and of storage of
7 the fuel until the federal government takes possession of all the fuel assemblies.
8 These accruals are then invested by professional asset managers in a risk-
9 mitigating strategy to grow the accrued amount while hedging losses.

10

11 This is in contrast to how the Company addresses dismantling costs for its
12 other production assets, where the dismantling costs are not segregated into a
13 trust account nor invested.

14

15 Q. WHAT CHANGES ARE YOU RECOMMENDING?

16 A. The Company is proposing to increase the annual nuclear decommissioning
17 accrual from \$276,513 set in Case No. PU-12-813 to \$2,250,002. This increases
18 the annual cost by \$1,973,489 for the North Dakota jurisdiction. Nuclear
19 decommissioning accruals are calculated at the jurisdictional level and not at the
20 total NSPM Company level.

21

22 Q. WHAT IS CAUSING THE NUCLEAR DECOMMISSIONING ACCRUAL TO INCREASE?

23 A. The increase is driven primarily by a decrease in the earnings assumption of the
24 trust. This change in earnings assumption accounts for approximately \$1.6
25 million of the impact to the North Dakota jurisdiction. Additionally, the
26 increase in the accrual calculation is driven by the increase in the escalation rate

1 and an increase in the jurisdictional allocation offset by a decrease in other
2 factors.

3
4 Q. PLEASE DESCRIBE THE DRIVERS OF THESE CHANGES.

5 A. The decrease in earnings assumptions is the result of lower long-term expected
6 returns for the trust portfolio. A key factor impacting this lower long-term
7 return is lower long-term interest rates. In light of a low-interest-rate
8 environment and the need to safely invest trust assets, we are forecasting lower
9 earnings from the trust portfolio and must, therefore, accrue more funds now.
10 If we wait to recover decommissioning costs later, we run the risk of having
11 customers who did not benefit from the nuclear fleet while it was in service
12 having to pay for its decommissioning. Further, we are forecasting increased
13 costs of decommissioning our nuclear fleet. This increases the amount of
14 funding required to decommission the plants in future dollars.

15
16 Jurisdictional allocations are the second biggest driver of the changes in the
17 accrual amount. Because our nuclear fleet serves all of our customers in the
18 five state NSP System, we must allocate the responsibility for nuclear
19 decommissioning costs to all of our customers. We use the same allocation
20 methodology for nuclear decommissioning costs as we do for other generation
21 costs. Between 2012 and 2020 the jurisdictional allocator increased from 4.8195
22 percent to 5.1744 percent and was the second largest driver of change. The
23 jurisdictional allocator for the nuclear decommissioning accrual is derived from
24 the Company's North Dakota 12 CP demand allocator for NSPM of 6.1731
25 percent (presented in the Direct Testimony of Ms. Jannell Marks) multiplied by
26 the 36-month (18 month leading/18 month lagging) FERC approved
27 Interchange Demand Allocator for the NSPM to Northern States Power –

1 Wisconsin (NSPW) Interchange Agreement. Consistent with past practice, this
2 allocation methodology is used to determine the portion of the cost estimate
3 that is assigned to North Dakota and we are only updating the allocation
4 amounts, but not changing our methodology.

5
6 Q. WHICH NUCLEAR DECOMMISSIONING COST ESTIMATE STUDY HAS BEEN USED
7 FOR THIS PROCEEDING?

8 A. This proceeding uses the 2017 cost estimate prepared by TLG Services, the
9 engineering consultant the Company has historically used to prepare these
10 estimates. TLG Services has extensive industry experience and currently
11 provides estimates for the majority of nuclear production plants in the country.
12 The study was performed in 2017 and provided costs in 2017 dollars.

13
14 Q. WHAT EARNINGS AND ESCALATION RATES ARE BEING USED TO CALCULATE THE
15 NUCLEAR DECOMMISSIONING ACCRUAL?

16 A. The accrual calculation is run on each unit using two single effective earnings
17 rates, one rate for the operating period (radiological) and one for the post-
18 shutdown period (spent fuel/site restoration). These rates which reflect the
19 anticipated amount of investment proceeds we expect to earn on the funds in
20 trust are calculated and provided by Goldman Sachs Asset Management
21 (GSAM), our professional asset manager, based on asset allocation
22 recommendations made at the same time as the development of the 2017 cost
23 estimate. The operating period rates are 5.00 percent for Monticello, down
24 from 5.35 percent in 2011; 4.99 percent for Prairie Island Unit 1, down from
25 5.50 percent in 2011; and 5.04 percent for Prairie Island Unit 2, down from
26 5.53 percent in 2011. The post shutdown period rates are 4.43 percent for
27 Monticello, down from 4.82 percent in 2011; 4.15 percent for Prairie Island

Unit 1, down from 4.66 percent in 2011; and 4.09 percent for Prairie Island Unit 2, down from 4.57 percent in 2011. Cost escalation rates were also provided by GSAM. The cost escalation rates in the 2017 study are 4.05 percent for labor costs and 2.85 percent for non-labor costs. This is not directly comparable to the Operations rate of 3.63 percent and the post decommissioning rate of 2.63 percent that was used in the 2011 study but uses the same base assumptions around inflation and wage increase rates.

Table 7
Earnings Rates Changes

| Nuclear Unit | Period | 2011 Return | 2017 Return | Change |
|---------------------|-------------------------|--------------------|--------------------|---------------|
| Monticello | Pre-decommission start | 5.35% | 5.00% | (0.35%) |
| Monticello | Post-decommission start | 4.82% | 4.43% | (0.39%) |
| PI Unit 1 | Pre-decommission start | 5.50% | 4.99% | (0.51%) |
| PI Unit 1 | Post-decommission start | 4.66% | 4.15% | (0.51%) |
| PI Unit 2 | Pre-decommission start | 5.53% | 5.04% | (0.49%) |
| PI Unit 2 | Post-decommission start | 4.57% | 4.09% | (0.48%) |

Table 8
Qualified Trust Fund Balance by Unit (June 30, 2020)

| | |
|------------------|------------------------|
| Monticello | \$1,076,666,911 |
| Prairie Island 1 | 622,498,987 |
| Prairie Island 2 | 695,439,515 |
| Total | \$2,394,605,413 |

Q. WHAT IS THE BALANCE FOR NORTH DAKOTA IN THE QUALIFIED TRUST?

A. The accrual calculation uses qualified trust balances as of June 30, 2020. The market value of the fund, net of expected taxes on unrealized gains, for each

1 unit for the North Dakota jurisdiction issued as a starting point for each unit's
2 accrual calculation. Table 7 shows the balances of the funds as of June 30, 2020
3 used to calculate the accrual.

4
5 Consistent with our 2015 Filing in Case No. PU-07-776 regarding the then-
6 existing nuclear decommissioning escrow account, the beginning balance of
7 the trust also includes the pour-over of the then-existing escrow funds. In
8 addition to the North Dakota jurisdictional fund balances, past wholesale
9 balances are expected to be reallocated across all jurisdictions. When this
10 reallocation occurs, North Dakota will realize a benefit for these dollars as
11 they impact the beginning balance of future decommissioning accruals.

12
13 Q. DOES THE COMPANY'S TREATMENT OF THE NUCLEAR DECOMMISSIONING
14 ACCRUAL REQUESTED IN THIS PROCEEDING ALIGN IT WITH ITS OTHER
15 JURISDICTIONS?

16 A. Yes. The company is currently using the 2017 Triennial Nuclear
17 Decommissioning proceeding in Minnesota (Docket No. E002/M-17-828,
18 submitted December 1, 2018) as the basis for the nuclear decommissioning
19 accrual in Minnesota. This study was adjusted in the 2019 Integrated Resource
20 Plan to integrate the effects of the DOE refunds. We believe the same outcome
21 should be used in North Dakota as well.

22
23 Q. WHAT IS THE DEPARTMENT OF ENERGY (DOE) REFUND?

24 A. These are payments related to the DOE's partial breach of its contract to begin
25 accepting spent nuclear fuel beginning on or before January 31, 1998. Under
26 settlement, the DOE has agreed to pay for costs associated with their failure to
27 begin taking spent fuel in 1998 including: a) any additional pool storage costs

1 and other plant modifications; b) dry casks storage and costs directly related to
2 such storage (e.g. internal labor, overhead, operation and maintenance, training
3 and security); and c) additional property taxes resulting from the on-site dry cask
4 storage or other plant modifications. The Company has historically refunded
5 the amount paid by the DOE under this settlement to customers in the year
6 received.

7
8 Q. PLEASE SUMMARIZE THE INTERACTION OF THE ACCRUAL AND THE DOE
9 SETTLEMENT PAYMENTS FOR THE NORTH DAKOTA JURISDICTION.

10 A. Currently, the DOE settlement payments allocated to North Dakota are being
11 refunded to customers as received. In other jurisdictions these amounts have
12 been used to offset accrual increases and avoid rate increases. The Company is
13 proposing in this case to utilize projected future DOE reimbursements after
14 shutdown to offset the expected costs associated with spent fuel disposal within
15 the NDT accrual. The company has developed two scenarios for calculating
16 the amount of the DOE offset. There are currently both a 75 percent and a 90
17 percent scenario. The percentages designate how much of the future expected
18 spent fuel costs will be offset by DOE reimbursements. In the amounts
19 calculated for this case, we are assuming an average of the 75 percent and 90
20 percent scenarios as a conservative approach. The company used a third-party
21 consultant¹ in the 2017 Triennial Nuclear Decommissioning to validate that the
22 company's inclusion of these funds is reasonable.

23

¹ Adam Levin is a sole proprietor doing business as AHL Consulting, delivering consulting services to the commercial nuclear power industry and the U.S. Department of Energy, providing expertise in all areas of decommissioning and spent nuclear fuel (SNF) management strategy, operations and finances.

1 Q. WHAT IS THE IMPACT TO ACCRUAL EXPENSE OF ADOPTING THE COMPANY'S
2 RECOMMENDATION WITH RESPECT TO THE DOE REFUND?

3 A. The accrual scenario we are recommending with the average of the 75 percent
4 and 90 percent of the DOE reimbursements is \$2,250,002. If North Dakota
5 were to adopt the same 75 percent offset assumption as Minnesota, the accrual
6 would increase to \$2,613,726, or an increase of \$363,724 per year.

7

8 Q. WHAT IS THE END-OF-LIFE (EOL) NUCLEAR FUEL ACCRUAL?

9 A. The EOL Accrual is a cost recovery mechanism that reserves for the unspent
10 and unamortized nuclear fuel that is in the reactors at the time the nuclear
11 reactors are shut down. These reserves accrete over the life of the plant through
12 a periodic expense, similar to other end of life and removal reserves.

13

14 Q. HOW DOES THE END-OF-LIFE (EOL) NUCLEAR FUEL ACCRUAL WORK?

15 A. The EOL Accrual and Decommissioning Accrual both function by setting
16 funds aside for known future obligations. However, the EOL Accrual is
17 different in that its funds are held within the Company as opposed to a separate
18 trust. Because of this, there is an offset to rate base for the cumulative EOL
19 funding. Customers receive offsetting benefit from this funding through a
20 reduction in rate base and in the resulting reduction in general rates.

21 The intent of EOL recovery is that the cumulative effect of the accrual and
22 corresponding rate base reduction will maintain a constant annual net cost to
23 customers over time. The EOL rate base reduction and accruals collected are
24 put into rates in the Company's general rate case filings. At that point both are
25 in parity – meaning that for the first year the customer pays the full accrual
26 amount and receives the full benefit of the rate base impact through rates.
27 However, in future years the customer needs to be compensated for the

1 additional offset to rate base that it should receive for the contributions it has
2 made since the general rate was approved. To compensate for this, the assumed
3 accrual increases to an amount that includes the rate base impact the customer
4 should receive. In this way, the customer is credited for the benefit they should
5 receive by essentially investing the assumed return into the EOL fund balance.
6 As such, every year that passes, the assumed accrual will increase without an
7 increase to rates, to compensate for the assumed interest until another general
8 rate case is filed and ordered on. At this point, the higher accrual is put into
9 rates, offset by a larger rate base offset.

10
11 In summary, the EOL Accrual increases annually without an increase in rates as
12 a result of the compensating effect of the assumed interest on the rate base
13 reduction. This process resets or rebalances every time a new general rate case
14 is filed where the rate base benefit is adjusted to reflect the past amount
15 contributed.

16
17 Q. IS THERE A REVISION TO THE EOL NUCLEAR FUEL ACCRUAL?

18 A. Yes. Based on updated assumptions around the cost of fuel and the how the
19 fuel will be used in the reactors, the amount the Company needs to recover has
20 increased from the last approved filing. In the 2017 Triennial Filing, this accrual
21 was approved for \$2,856,756 effective in 2021.

22
23 **V. CONCLUSION**

24
25 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

26 A. The Company has made considerable investments in the NSP System since
27 2013 to help ensure safe, reliable, and affordable electric service to our

1 customers. Many of these investments have been granted advanced
2 determinations of prudence by the Commission and those that have not are
3 prudent.

4
5 The Company must update its depreciation expense given the passage of time
6 since our last rate case. The changes in our depreciation expense are consistent
7 with current known and assumed remaining lives of our production plant,
8 currently known net salvage rates, and other considerations. Additionally, the
9 Company's proposed TD&G depreciation rates are consistent with appropriate
10 studies and conform to past practice. Overall, the Company's proposed
11 depreciation rates are reasonable and should be approved by the Commission.

12
13 Also given the passage of time since our last rate case, the Company must
14 increase amounts accrued to fund the Nuclear Decommissioning Trust. The
15 costs to fund the trust are a necessary component of providing the benefits of
16 a strong nuclear fleet to our customers, are reasonable, and should be approved
17 by the Commission.

18
19 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

20 A. Yes, it does.

1 STATE OF NORTH DAKOTA
2 BEFORE THE
3 PUBLIC SERVICE COMMISSION
4
5

6 In the Matter of the Application of Northern)
7 States Power Company, a Minnesota Corporation)
8 For Authority to Increase Rates for Electric Service) Case No. PU-20-____
9 in North Dakota)

10
11
12
13 AFFIDAVIT OF
14 Mark P. Moeller
15
16

17 I, the undersigned, being duly sworn, depose and say that the foregoing is the
18 Direct Testimony of the undersigned, and that such Direct Testimony and the
19 exhibits or schedules sponsored by me to the best of my knowledge, information
20 and belief, are true, correct, accurate and complete, and I hereby adopt said testimony
21 as if given by me in formal hearing, under oath.

22
23 
24

25 Mark P. Moeller
26
27
28
29

30 Subscribed and sworn to before me, this 20 day of October, 2020.
31

32 
33 _____
34 Notary Public

35 My Commission Expires: January 31, 2025
36



Statement of Qualifications

Mark P. Moeller
Director, Capital Asset Accounting
401 Nicollet Mall, Minneapolis, Minnesota

Current Responsibilities:

My current position with Xcel Energy Services (XES) is Director, Capital Asset Accounting. I am responsible for:

- Capital investment cost recovery process, which includes the development of detailed actuarial analysis, regulatory filings with the various state and federal rate regulatory commissions, and expert testimony to support recovery levels in rate proceedings;
- Accounting for and reporting on the nuclear plant decommissioning funding process, which includes the development of detailed engineering cost studies combined with a complete financial and economic analysis to develop detailed regulatory filings to establish the ratepayer funding levels necessary to accumulate the total future decommissioning cost requirement;
- Plant asset-related ratemaking process, which supports the rate filings for all of the Xcel Energy Operating Companies' retail and wholesale jurisdictions; and
- Overseeing capital asset reporting including internal reporting as well as external report to meet SEC, FERC, IRS and state specific filing requirements
- Capitalization policy, including policy development, interpretation and alignment with GAAP and FERC principles and requirements.

Previous Experience:

I have worked for Xcel Energy since 2003 and held various financial management roles in financial controls, corporate accounting, internal reporting and process improvement.

Education:

I received a Bachelor of Science degree with a major accounting, from Saint John's University in 1989. I received an Masters of Business Administration degree from the University of Minnesota Carlson School of Management in 1996.

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|-------------------------|------------------------|----------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 95,945 | \$ 167,361 | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | - | - | - | 201,839 | - | 201,839 |
| 303 Computer Software 5 Year | 64,370,730 | 108,104,864 | (27,828,370) | (793,698) | - | 143,853,526 |
| 303 Computer Software 7 Year | - | - | (621,977) | 621,977 | - | - |
| Electric Intangible Plant Total | \$ 64,466,676 | \$ 108,272,225 | \$ (28,450,347) | \$ 30,118 | \$ - | \$ 144,318,672 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 16,683,316 | \$ 20,530,583 | \$ (12,578,003) | \$ (556,683) | \$ - | \$ 24,079,212 |
| 350 Land - Other | 62,841,275 | 77,997,686 | - | 495,238 | - | 141,334,199 |
| 352 Structures and Improvements | 53,469,433 | 69,526,271 | (804,800) | 3,675,716 | - | 125,866,620 |
| 353 Station Equipment | 889,409,394 | 403,234,485 | (35,001,603) | 24,906,329 | - | 1,282,548,604 |
| 354 Towers and Fixtures | 113,929,817 | 5,383,059 | (502,165) | (788,431) | - | 118,022,279 |
| 355 Poles and Fixtures | 621,903,675 | 840,912,429 | (22,011,505) | 219,714 | - | 1,441,024,312 |
| 356 Overhead Conductors and Devices | 327,296,834 | 286,470,023 | (18,911,163) | 745,247 | - | 595,600,941 |
| 357 Underground Conduit | 12,606,675 | 17,331,818 | (55,087) | - | - | 29,883,406 |
| 358 Underground Conductor and Devices | 21,431,822 | 15,502,164 | (12,824) | 64,808 | - | 36,985,970 |
| Electric Transmission Plant Total | \$ 2,119,572,240 | \$ 1,736,888,517 | \$ (89,877,149) | \$ 28,761,937 | \$ - | \$ 3,795,345,544 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ (45,179) | \$ - | \$ 569,576 |
| 361 Structures and Improvements | 821,584 | 817,671 | (3,554) | (546,301) | - | 1,089,400 |
| 362 Station Equipment | 16,816,017 | 21,653,872 | (2,860,592) | (1,146,274) | - | 34,463,023 |
| 364 Poles, Towers, and Fixtures | 12,228,441 | 5,381,120 | (367,492) | - | - | 17,242,070 |
| 365 Overhead Conductors and Devices | 17,608,241 | 7,497,952 | (2,532,596) | - | - | 22,573,598 |
| 366 Underground Conduit | 5,676,750 | 1,673,183 | (30,883) | - | - | 7,319,050 |
| 367 Underground Conductor and Devices | 46,748,364 | 21,131,257 | (1,423,755) | - | - | 66,455,866 |
| 368 Line Transformers | 11,563,082 | 7,204,922 | (4,627,274) | 12,331,960 | - | 26,472,691 |
| 368 Line Capacitors | 552,642 | 255,697 | (41,253) | - | - | 767,086 |
| 369 Overhead Services | 5,159,565 | 583,178 | (97,732) | - | - | 5,645,012 |
| 369 Underground Services | 7,657,126 | 1,756,231 | (28,362) | - | - | 9,384,994 |
| 370 Meters | 5,326,177 | 1,253,842 | (2,012,963) | 2,679,189 | - | 7,246,245 |
| 370 Meters - Old | 177,749 | - | (177,749) | - | - | - |
| 373 Street Lighting and Signal Systems | 1,925,552 | 2,301,081 | (1,020,586) | - | - | 3,206,047 |
| Electric Distribution Plant Total (ND Only) | \$ 132,876,047 | \$ 71,510,006 | \$ (15,224,790) | \$ 13,273,394 | \$ - | \$ 202,434,657 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|---|-------------------------------|-----------------------|-------------------------|------------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ 45,181 | \$ - | \$ - | \$ - | \$ 4,483,437 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 61,149,065 | 21,378,962 | (8,504,122) | (1,053,394) | - | 72,970,511 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | - | 1,039,781 | - | 35,652 | - | 1,075,433 |
| 391 Office Furniture and Equipment | 24,221,227 | 8,666,371 | (775,303) | - | - | 32,112,296 |
| 391 Network Equipment | 6,919,037 | 55,237,610 | (13,569,389) | - | - | 48,587,258 |
| 392 Automobiles | 416,526 | 6,250,682 | (283,699) | - | - | 6,383,510 |
| 392 Light Trucks | 23,049,501 | 17,122,104 | (5,108,754) | - | - | 35,062,851 |
| 392 Trailers | 9,113,657 | 13,205,904 | (220,951) | 0 | - | 22,098,610 |
| 392 Heavy Trucks | 50,035,830 | 68,758,603 | (2,154,591) | (0) | - | 116,639,842 |
| 393 Stores Equipment | 1,781,049 | 338,884 | (488,196) | 0 | - | 1,631,738 |
| 394 Tools, Shop, and Garage Equipment | 57,234,442 | 57,277,756 | (11,373,024) | 8,920 | - | 103,148,094 |
| 395 Laboratory Equipment | 3,850,584 | 1,712,703 | (2,578,386) | - | - | 2,984,900 |
| 396 Power Operated Equipment | 27,557,332 | 26,490,573 | (2,061,848) | - | - | 51,986,057 |
| 397 General Communication Equipment | 14,651,825 | 4,672,811 | (1,684,502) | (194,423) | - | 17,445,712 |
| 397 Communication Equipment - Two Way | 252,239 | 57,882,744 | (167,589) | 441,995 | - | 58,409,389 |
| 397 Comm. & Telecomm. Equipment - AES | 6,102,771 | 968,955 | - | - | - | 7,071,726 |
| 397 Comm. & Telecomm. Equipment - EMS | 10,261,010 | 32,303,558 | (1,186,930) | 297,055 | - | 41,674,693 |
| 398 Miscellaneous Equipment | 2,794,004 | 1,112,115 | (256,388) | (30,118) | - | 3,619,613 |
| Electric General Plant Total | \$ 303,829,019 | \$ 374,465,299 | \$ (50,413,671) | \$ (494,313) | \$ - | \$ 627,386,334 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 9,446,779 | \$ 64,855 | \$ (41,579) | \$ (950,861) | \$ - | \$ 8,519,194 |
| 310 Land & Land Rights - Other | (10,137) | 19,993 | - | (1,831) | - | 8,024 |
| 311 Structures & Improvements | 312,827,110 | 25,157,348 | (13,955,250) | (32,216,098) | 96,034 | 291,909,144 |
| 312 Boiler Plant Equipment | 1,342,597,221 | 266,668,512 | (130,098,285) | (14,257,290) | - | 1,464,910,157 |
| 314 Turbogenerator Units | 290,614,318 | 81,707,867 | (39,086,429) | (14,266,338) | - | 318,969,418 |
| 314 Turbogenerator Units - Sherco 3 HFU | 16,700,339 | 17,158 | - | (16,717,497) | - | - |
| 315 Accessory Electric Equipment | 167,176,816 | 35,423,940 | (9,380,823) | (5,479,143) | - | 187,740,791 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | 7,656,037 | 15,561 | - | (7,671,598) | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,846,319 | 5,294,098 | (1,557,973) | (3,516,681) | - | 54,065,763 |
| Electric Steam Production Plant Total | \$ 2,200,854,803 | \$ 414,369,332 | \$ (194,120,339) | \$ (95,077,338) | \$ 96,034 | \$ 2,326,122,491 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|-------------------------|-------------------------|----------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 121,634,121 | \$ 129,598,698 | \$ - | \$ - | \$ - | \$ 251,232,819 |
| 320 Land & Land Rights - Fee | 1,153,084 | 607,549 | - | - | - | 1,760,634 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 432,300,869 | 174,352,924 | (25,746,132) | (848,812) | - | 580,058,850 |
| 322 Reactor Plant Equipment | 1,004,535,965 | 828,538,822 | (65,471,121) | 141,051,839 | - | 1,908,655,504 |
| 323 Turbogenerator Units | 444,629,223 | 336,934,988 | (13,384,258) | (134,364,462) | - | 633,815,490 |
| 324 Accessory Electric Equipment | 284,871,603 | 281,196,774 | (12,138,704) | - | - | 553,929,673 |
| 325 Miscellaneous Power Plant Equipment | 142,877,762 | 71,067,298 | (6,373,269) | 62,090 | - | 207,633,882 |
| Electric Nuclear Production Plant Total | \$ 2,432,004,356 | \$ 1,822,297,053 | \$ (123,113,484) | \$ 5,900,655 | \$ - | \$ 4,137,088,581 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 298,638 | - | (5,775) | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 542,363 | 979,938 | (133,821) | 57,124 | - | 1,445,604 |
| 332 Reservoirs, Dams & Waterways | 6,335,245 | 5,104,921 | (373,593) | - | - | 11,066,573 |
| 333 Water Wheels, Turbines & Generators | 7,844,873 | 2,616,866 | (284,672) | - | - | 10,177,067 |
| 334 Accessory Electric Equipment | 2,716,375 | 575,961 | (35,364) | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 22,055,570 | \$ 9,277,686 | \$ (833,224) | \$ 57,124 | \$ - | \$ 30,557,156 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 4,958,572 | \$ 1,105,332 | \$ (96,560) | \$ (1,330,779) | \$ - | \$ 4,636,565 |
| 340 Land & Land Rights - Other | 10,368,887 | - | (1,236) | - | - | 10,367,652 |
| 340 Wind Rights | 3,884,834 | 2,232,514 | - | 10,672,452 | - | 16,789,800 |
| 341 Structures & Improvements | 167,003,738 | 136,044,302 | (1,602,435) | 32,885,943 | - | 334,331,548 |
| 342 Fuel Holders, Producers & Accessories | 78,725,816 | 12,981,018 | (3,425,324) | (61,172,438) | - | 27,109,072 |
| 343 Prime Movers | - | 652,252 | - | 139,802,454 | - | 140,454,706 |
| 344 Generators | 1,404,024,150 | 1,217,119,568 | (50,809,594) | (50,893,823) | - | 2,519,440,301 |
| 345 Accessory Electric Equipment | 165,644,290 | 123,260,685 | (4,928,829) | 11,639,994 | - | 295,616,140 |
| 346 Miscellaneous Power Plant Equipment | 21,267,808 | 2,797,215 | (242,974) | 9,081,430 | - | 32,903,480 |
| 348 Energy Storage Equipment | - | - | - | 4,128,902 | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 1,855,878,097 | \$ 1,496,192,887 | \$ (61,106,952) | \$ 94,814,135 | \$ - | \$ 3,385,778,166 |
| TOTAL ELECTRIC UTILITY | \$ 9,131,536,807 | \$ 6,033,273,004 | \$ (563,139,957) | \$ 47,265,712 | \$ 96,034 | \$ 14,649,031,600 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|-------------------------|-------------------------|-----------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | - | 9,602,650 | - | 7,611,149 | - | 17,213,800 |
| 303 Computer Software 5 Year | - | 104,012,470 | (72,968,024) | 197,603,730 | - | 228,648,176 |
| 303 Computer Software 7 Year | - | - | (41,284,956) | 44,140,612 | - | 2,855,656 |
| 303 Computer Software 10 Year | - | 1,110,368 | (14,716,203) | 68,449,240 | - | 54,843,405 |
| 303 Computer Software 15 year | - | 104,814,510 | - | 61,015,418 | - | 165,829,929 |
| 303 Computer Software - All | 242,565,884 | 170,393,967 | (34,139,702) | (378,820,150) | - | - |
| Common Intangible Plant Total | \$ 242,666,492 | \$ 389,933,966 | \$ (163,108,884) | \$ - | \$ - | \$ 469,491,574 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,939,939 | \$ 1,251,397 | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 129,498,058 | 77,985,752 | (17,065,551) | (2,518,050) | - | 187,900,208 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,163,412 | 16,895,528 | (1,833,753) | 1,869,142 | - | 18,094,329 |
| 391 Office Furniture and Equipment | 30,825,969 | 14,596,528 | (15,744,870) | (1,525,701) | - | 28,151,926 |
| 391 Network Equipment | 56,638,244 | 176,540,281 | (87,490,060) | - | - | 145,688,465 |
| 392 Automobiles | 408,597 | 1,239,502 | (165,915) | - | - | 1,482,184 |
| 392 Light Trucks | 4,610,345 | 2,143,853 | (2,756,525) | - | - | 3,997,674 |
| 392 Trailers | 1,172,999 | 196,533 | (256,671) | - | - | 1,112,860 |
| 392 Heavy Trucks | 4,576,760 | 2,600,926 | (1,252,353) | - | - | 5,925,333 |
| 393 Stores Equipment | 152,859 | 114,654 | (21,350) | - | - | 246,162 |
| 394 Tools, Shop, and Garage Equipment | 2,662,096 | 2,782,725 | (565,053) | 38,530 | - | 4,918,298 |
| 395 Laboratory Equipment | 36,686 | - | (36,686) | - | - | - |
| 396 Power Operated Equipment | 836,688 | 491,275 | (300,841) | - | - | 1,027,122 |
| 397 Comm. & Telecomm. Equipment | 1,685,395 | 19,488 | (1,556,033) | - | - | 148,850 |
| 397 Communication Equipment - Two Way | 3,738,356 | 76,870 | (3,738,356) | - | - | 76,870 |
| 397 Communication Equipment - Smart Grid | - | 529,266 | - | - | - | 529,266 |
| 398 Miscellaneous Equipment | 917,274 | 7,245 | (688,911) | - | - | 235,608 |
| Common General Plant Total | \$ 243,869,248 | \$ 297,471,824 | \$ (133,472,927) | \$ (2,136,080) | \$ - | \$ 405,732,065 |
| TOTAL COMMON UTILITY | \$ 486,535,740 | \$ 687,405,790 | \$ (296,581,812) | \$ (2,136,080) | \$ - | \$ 875,223,638 |
| TOTAL - ALL UTILITIES | \$ 9,618,072,547 | \$ 6,720,678,794 | \$ (859,721,769) | \$ 45,129,632 | \$ 96,034 | \$ 15,524,255,238 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2013 |
|--|-------------------------------|-----------------------|------------------------|-------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 95,945 | \$ 132,639 | \$ - | \$ - | \$ - | \$ 228,585 |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | 64,370,730 | 8,333,040 | (855,828) | 30,118 | - | 71,878,061 |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| Electric Intangible Plant Total | \$ 64,466,676 | \$ 8,465,679 | \$ (855,828) | \$ 30,118 | \$ - | \$ 72,106,645 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 16,683,316 | \$ 3,968,369 | \$ (658,109) | \$ 8,838 | \$ - | \$ 20,002,414 |
| 350 Land - Other | 62,841,275 | 33,992,314 | - | (425) | - | 96,833,165 |
| 352 Structures and Improvements | 53,469,433 | 2,267,147 | (70,691) | 156,692 | - | 55,822,581 |
| 353 Station Equipment | 889,409,394 | 58,786,737 | (12,886,849) | (109,608) | - | 935,199,674 |
| 354 Towers and Fixtures | 113,929,817 | 4,851,346 | (90,901) | - | - | 118,690,261 |
| 355 Poles and Fixtures | 621,903,675 | 43,111,337 | (1,943,392) | (119,425) | - | 662,952,195 |
| 356 Overhead Conductors and Devices | 327,296,834 | 12,456,962 | (4,679,708) | 801,200 | - | 335,875,287 |
| 357 Underground Conduit | 12,606,675 | 95,169 | - | - | - | 12,701,844 |
| 358 Underground Conductor and Devices | 21,431,822 | 498,657 | - | 64,808 | - | 21,995,288 |
| Electric Transmission Plant Total | \$ 2,119,572,240 | \$ 160,028,038 | \$ (20,329,649) | \$ 802,079 | \$ - | \$ 2,260,072,708 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 821,584 | 96,089 | (3,147) | - | - | 914,526 |
| 362 Station Equipment | 16,816,017 | 5,540,532 | (136,711) | 8,980 | - | 22,228,818 |
| 364 Poles, Towers, and Fixtures | 12,228,441 | 469,085 | (67,490) | - | - | 12,630,036 |
| 365 Overhead Conductors and Devices | 17,608,241 | 974,345 | (709,101) | - | - | 17,873,485 |
| 366 Underground Conduit | 5,676,750 | 125,940 | (5,268) | - | - | 5,797,422 |
| 367 Underground Conductor and Devices | 46,748,364 | 3,802,532 | (255,414) | - | - | 50,295,482 |
| 368 Line Transformers | 11,563,082 | - | (874,109) | - | - | 10,688,973 |
| 368 Line Capacitors | 552,642 | - | (1,140) | - | - | 551,503 |
| 369 Overhead Services | 5,159,565 | 94,813 | (16,034) | - | - | 5,238,345 |
| 369 Underground Services | 7,657,126 | 179,823 | (2,819) | - | - | 7,834,129 |
| 370 Meters | 5,326,177 | - | - | - | - | 5,326,177 |
| 370 Meters - Old | 177,749 | - | (177,749) | - | - | - |
| 373 Street Lighting and Signal Systems | 1,925,552 | 126,924 | (73,464) | - | - | 1,979,012 |
| Electric Distribution Plant Total (ND Only) | \$ 132,876,047 | \$ 11,410,082 | \$ (2,322,446) | \$ 8,980 | \$ - | \$ 141,972,663 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2013 |
|---|-------------------------------|-----------------------|------------------------|-----------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ - | \$ - | \$ - | \$ - | \$ 4,438,256 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 61,149,065 | (1,392,235) | (3,173,978) | (35,652) | - | 56,547,200 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | - | - | - | 35,652 | - | 35,652 |
| 391 Office Furniture and Equipment | 24,221,227 | 400,766 | (69,718) | - | - | 24,552,275 |
| 391 Network Equipment | 6,919,037 | 6,115,959 | (1,096,352) | - | - | 11,938,644 |
| 392 Automobiles | 416,526 | 23,206 | - | - | - | 439,733 |
| 392 Light Trucks | 23,049,501 | 2,606,035 | - | - | - | 25,655,537 |
| 392 Trailers | 9,113,657 | 1,257,908 | - | - | - | 10,371,565 |
| 392 Heavy Trucks | 50,035,830 | 9,446,716 | - | - | - | 59,482,545 |
| 393 Stores Equipment | 1,781,049 | 329,269 | (261,474) | - | - | 1,848,844 |
| 394 Tools, Shop, and Garage Equipment | 57,234,442 | 10,657,162 | (1,884,820) | - | - | 66,006,784 |
| 395 Laboratory Equipment | 3,850,584 | 59,124 | (308,567) | - | - | 3,601,141 |
| 396 Power Operated Equipment | 27,557,332 | 2,417,797 | - | - | - | 29,975,129 |
| 397 General Communication Equipment | 14,651,825 | 1,567,872 | (119,530) | (195,704) | - | 15,904,463 |
| 397 Communication Equipment - Two Way | 252,239 | 184,073 | (19,682) | - | - | 416,630 |
| 397 Comm. & Telecomm. Equipment - AES | 6,102,771 | 953,331 | - | - | - | 7,056,102 |
| 397 Comm. & Telecomm. Equipment - EMS | 10,261,010 | 6,913,933 | (834,712) | 195,704 | - | 16,535,935 |
| 398 Miscellaneous Equipment | 2,794,004 | 106,682 | (13,712) | (30,118) | - | 2,856,855 |
| Electric General Plant Total | \$ 303,829,019 | \$ 41,647,598 | \$ (7,782,545) | \$ (30,118) | \$ - | \$ 337,663,954 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 9,446,779 | \$ - | \$ - | \$ - | \$ - | \$ 9,446,779 |
| 310 Land & Land Rights - Other | (10,137) | 19,993 | - | - | - | 9,856 |
| 311 Structures & Improvements | 312,827,110 | 3,928,133 | (1,377,198) | (493,593) | - | 314,884,452 |
| 312 Boiler Plant Equipment | 1,342,597,221 | 59,914,868 | (16,138,106) | - | - | 1,386,373,983 |
| 314 Turbogenerator Units | 290,614,318 | 29,810,658 | (451,791) | 16,717,497 | - | 336,690,683 |
| 314 Turbogenerator Units - Sherco 3 HFU | 16,700,339 | 17,158 | - | (16,717,497) | - | - |
| 315 Accessory Electric Equipment | 167,176,816 | 13,433,328 | (605,482) | 7,671,598 | - | 187,676,261 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | 7,656,037 | 15,561 | - | (7,671,598) | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,846,319 | 1,362,933 | (763,227) | (708,194) | - | 53,737,832 |
| Electric Steam Production Plant Total | \$ 2,200,854,803 | \$ 108,502,633 | \$ (19,335,804) | \$ (1,201,787) | \$ - | \$ 2,288,819,845 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2013 |
|--|-------------------------------|-------------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 121,634,121 | \$ 59,650,544 | \$ - | \$ - | \$ - | \$ 181,284,664 |
| 320 Land & Land Rights - Fee | 1,153,084 | - | - | - | - | 1,153,084 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 432,300,869 | 15,027,121 | (2,744,986) | - | - | 444,583,005 |
| 322 Reactor Plant Equipment | 1,004,535,965 | 463,989,589 | (13,864,756) | - | - | 1,454,660,797 |
| 323 Turbogenerator Units | 444,629,223 | 126,462,103 | (1,147,710) | - | - | 569,943,615 |
| 324 Accessory Electric Equipment | 284,871,603 | 145,226,747 | (1,514,845) | - | - | 428,583,505 |
| 325 Miscellaneous Power Plant Equipment | 142,877,762 | 1,049,669 | (71,365) | - | - | 143,856,066 |
| Electric Nuclear Production Plant Total | \$ 2,432,004,356 | \$ 811,405,772 | \$ (19,343,662) | \$ - | \$ - | \$ 3,224,066,467 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 298,638 | - | (5,775) | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 542,363 | 797,468 | (40,158) | - | - | 1,299,673 |
| 332 Reservoirs, Dams & Waterways | 6,335,245 | 2,619,511 | (149,587) | - | - | 8,805,169 |
| 333 Water Wheels, Turbines & Generators | 7,844,873 | 2,256,832 | - | - | - | 10,101,704 |
| 334 Accessory Electric Equipment | 2,716,375 | 675,946 | - | - | - | 3,392,321 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 22,055,570 | \$ 6,349,756 | \$ (195,520) | \$ - | \$ - | \$ 28,209,806 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 4,958,572 | \$ - | \$ - | \$ - | \$ - | \$ 4,958,572 |
| 340 Land & Land Rights - Other | 10,368,887 | - | - | - | - | 10,368,887 |
| 340 Wind Rights | 3,884,834 | - | - | - | - | 3,884,834 |
| 341 Structures & Improvements | 167,003,738 | 932,164 | (122,197) | 493,593 | - | 168,307,298 |
| 342 Fuel Holders, Producers & Accessories | 78,725,816 | 141,141 | - | - | - | 78,866,957 |
| 343 Prime Movers | - | - | - | - | - | - |
| 344 Generators | 1,404,024,150 | 7,552,327 | (12,931,245) | - | - | 1,398,645,232 |
| 345 Accessory Electric Equipment | 165,644,290 | 226,268 | (166,983) | - | - | 165,703,575 |
| 346 Miscellaneous Power Plant Equipment | 21,267,808 | 366,535 | (7,711) | 708,194 | - | 22,334,826 |
| 348 Energy Storage Equipment | - | - | - | - | - | - |
| Electric Other Production Plant Total | \$ 1,855,878,097 | \$ 9,218,435 | \$ (13,228,136) | \$ 1,201,787 | \$ - | \$ 1,853,070,182 |
| TOTAL ELECTRIC UTILITY | \$ 9,131,536,807 | \$ 1,157,027,994 | \$ (83,393,591) | \$ 811,060 | \$ - | \$ 10,205,982,270 |

| Account Description | Beginning Balance 1/1/2013 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2013 |
|--|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | - | - | - | - | - | - |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| 303 Computer Software 10 Year | - | - | - | - | - | - |
| 303 Computer Software 15 year | - | - | - | - | - | - |
| 303 Computer Software - All | 242,565,884 | 18,095,016 | (21,484,729) | - | - | 239,176,171 |
| Common Intangible Plant Total | \$ 242,666,492 | \$ 18,095,016 | \$ (21,484,729) | \$ - | \$ - | \$ 239,276,779 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,939,939 | \$ 1,231,718 | \$ - | \$ - | \$ - | \$ 6,171,657 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 129,498,058 | 21,934,559 | (10,192,810) | (979,066) | - | 140,260,741 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,163,412 | (489,533) | (450,706) | 979,066 | - | 1,202,240 |
| 391 Office Furniture and Equipment | 30,825,969 | 1,104,686 | (4,781,782) | - | - | 27,148,873 |
| 391 Network Equipment | 56,638,244 | 24,642,219 | (21,150,757) | - | - | 60,129,706 |
| 392 Automobiles | 408,597 | 248,605 | - | - | - | 657,202 |
| 392 Light Trucks | 4,610,345 | 440,355 | - | - | - | 5,050,699 |
| 392 Trailers | 1,172,999 | - | - | - | - | 1,172,999 |
| 392 Heavy Trucks | 4,576,760 | 426,960 | - | - | - | 5,003,721 |
| 393 Stores Equipment | 152,859 | 32,654 | (9,329) | - | - | 176,183 |
| 394 Tools, Shop, and Garage Equipment | 2,662,096 | 351,086 | (334,636) | - | - | 2,678,546 |
| 395 Laboratory Equipment | 36,686 | - | - | - | - | 36,686 |
| 396 Power Operated Equipment | 836,688 | 63,866 | - | - | - | 900,554 |
| 397 Comm. & Telecomm. Equipment | 1,685,395 | - | (44,115) | - | - | 1,641,280 |
| 397 Communication Equipment - Two Way | 3,738,356 | - | (42,946) | - | - | 3,695,410 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 917,274 | - | (237,763) | - | - | 679,511 |
| Common General Plant Total | \$ 243,869,248 | \$ 49,987,176 | \$ (37,244,844) | \$ - | \$ - | \$ 256,611,579 |
| TOTAL COMMON UTILITY | \$ 486,535,740 | \$ 68,082,192 | \$ (58,729,573) | \$ - | \$ - | \$ 495,888,358 |
| TOTAL - ALL UTILITIES | \$ 9,618,072,547 | \$ 1,225,110,186 | \$ (142,123,164) | \$ 811,060 | \$ - | \$ 10,701,870,628 |

| Account Description | Beginning Balance 1/1/2014 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2014 |
|--|-------------------------------|-----------------------|-----------------------|----------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 228,585 | \$ 1,450 | \$ - | \$ - | \$ - | \$ 230,035 |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | 71,878,061 | 14,563,579 | - | - | - | 86,441,640 |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| Electric Intangible Plant Total | \$ 72,106,645 | \$ 14,565,029 | \$ - | \$ - | \$ - | \$ 86,671,675 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 20,002,414 | \$ 5,677,646 | \$ (639,286) | \$ - | \$ - | \$ 25,040,774 |
| 350 Land - Other | 96,833,165 | 15,947,715 | - | (1) | - | 112,780,878 |
| 352 Structures and Improvements | 55,822,581 | 14,107,028 | (5,105) | (74,900) | - | 69,849,603 |
| 353 Station Equipment | 935,199,674 | 114,444,965 | (611,451) | 74,901 | - | 1,049,108,089 |
| 354 Towers and Fixtures | 118,690,261 | - | (40,284) | - | - | 118,649,978 |
| 355 Poles and Fixtures | 662,952,195 | 288,913,240 | (181,568) | (431,683) | - | 951,252,184 |
| 356 Overhead Conductors and Devices | 335,875,287 | 95,447,122 | (599,036) | (65,235) | - | 430,658,139 |
| 357 Underground Conduit | 12,701,844 | 13,041,630 | - | - | - | 25,743,474 |
| 358 Underground Conductor and Devices | 21,995,288 | 8,654,342 | - | - | - | 30,649,630 |
| Electric Transmission Plant Total | \$ 2,260,072,708 | \$ 556,233,688 | \$ (2,076,729) | \$ (496,918) | \$ - | \$ 2,813,732,749 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 914,526 | 2,271 | - | - | - | 916,797 |
| 362 Station Equipment | 22,228,818 | 4,558,394 | - | - | - | 26,787,212 |
| 364 Poles, Towers, and Fixtures | 12,630,036 | 598,190 | (41,020) | - | - | 13,187,206 |
| 365 Overhead Conductors and Devices | 17,873,485 | 1,260,383 | (349,823) | - | - | 18,784,045 |
| 366 Underground Conduit | 5,797,422 | 350,369 | (4,425) | - | - | 6,143,366 |
| 367 Underground Conductor and Devices | 50,295,482 | 4,708,577 | (288,832) | - | - | 54,715,227 |
| 368 Line Transformers | 10,688,973 | 13,389 | (526,138) | 12,331,960 | - | 22,508,184 |
| 368 Line Capacitors | 551,503 | (72,137) | (16,886) | - | - | 462,480 |
| 369 Overhead Services | 5,238,345 | 84,296 | (13,140) | - | - | 5,309,501 |
| 369 Underground Services | 7,834,129 | 181,108 | (2,532) | - | - | 8,012,706 |
| 370 Meters | 5,326,177 | 5,480 | (354,282) | 2,679,189 | - | 7,656,563 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 1,979,012 | 77,117 | (36,694) | - | - | 2,019,435 |
| Electric Distribution Plant Total (ND Only) | \$ 141,972,663 | \$ 11,767,437 | \$ (1,633,772) | \$ 15,011,149 | \$ - | \$ 167,117,476 |

| Account Description | Beginning Balance 1/1/2014 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2014 |
|---|-------------------------------|----------------------|------------------------|-------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ - | \$ - | \$ - | \$ - | \$ 4,438,256 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 56,547,200 | 3,160,092 | (649,654) | - | - | 59,057,637 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 35,652 | - | - | - | - | 35,652 |
| 391 Office Furniture and Equipment | 24,552,275 | 264,149 | - | - | - | 24,816,424 |
| 391 Network Equipment | 11,938,644 | 11,320,554 | (2,792,103) | - | - | 20,467,094 |
| 392 Automobiles | 439,733 | 79,300 | - | - | - | 519,032 |
| 392 Light Trucks | 25,655,537 | 1,600,563 | - | - | - | 27,256,100 |
| 392 Trailers | 10,371,565 | 1,135,526 | - | - | - | 11,507,091 |
| 392 Heavy Trucks | 59,482,545 | 7,757,990 | - | - | - | 67,240,536 |
| 393 Stores Equipment | 1,848,844 | - | (66,914) | - | - | 1,781,931 |
| 394 Tools, Shop, and Garage Equipment | 66,006,784 | 6,084,032 | (919,705) | - | - | 71,171,111 |
| 395 Laboratory Equipment | 3,601,141 | 525,938 | (892,983) | - | - | 3,234,096 |
| 396 Power Operated Equipment | 29,975,129 | 3,040,646 | - | - | - | 33,015,775 |
| 397 General Communication Equipment | 15,904,463 | 1,211,104 | (512,066) | - | - | 16,603,500 |
| 397 Communication Equipment - Two Way | 416,630 | (4,096) | - | - | - | 412,534 |
| 397 Comm. & Telecomm. Equipment - AES | 7,056,102 | 15,624 | - | - | - | 7,071,726 |
| 397 Comm. & Telecomm. Equipment - EMS | 16,535,935 | 2,564,087 | - | - | - | 19,100,022 |
| 398 Miscellaneous Equipment | 2,856,855 | 15,284 | - | - | - | 2,872,139 |
| Electric General Plant Total | \$ 337,663,954 | \$ 38,770,791 | \$ (5,833,425) | \$ - | \$ - | \$ 370,601,319 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 9,446,779 | \$ - | \$ (6,313) | \$ - | \$ - | \$ 9,440,466 |
| 310 Land & Land Rights - Other | 9,856 | - | - | - | - | 9,856 |
| 311 Structures & Improvements | 314,884,452 | 5,978,658 | (1,082,116) | - | - | 319,780,995 |
| 312 Boiler Plant Equipment | 1,386,373,983 | 64,177,593 | (15,200,755) | - | - | 1,435,350,821 |
| 314 Turbogenerator Units | 336,690,683 | 318,713 | (8,300,655) | - | - | 328,708,741 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 187,676,261 | 10,385,229 | (3,713,273) | - | - | 194,348,217 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,737,832 | 2,891,356 | (58,456) | - | - | 56,570,732 |
| Electric Steam Production Plant Total | \$ 2,288,819,845 | \$ 83,751,550 | \$ (28,361,568) | \$ - | \$ - | \$ 2,344,209,827 |

| Account Description | Beginning Balance 1/1/2014 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2014 |
|--|-------------------------------|-----------------------|------------------------|----------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 181,284,664 | \$ 47,180,246 | \$ - | \$ - | \$ - | \$ 228,464,910 |
| 320 Land & Land Rights - Fee | 1,153,084 | - | - | - | - | 1,153,084 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 444,583,005 | 37,330,151 | (1,035,936) | - | - | 480,877,219 |
| 322 Reactor Plant Equipment | 1,454,660,797 | 37,111,024 | (9,869,450) | 28,092,238 | - | 1,509,994,609 |
| 323 Turbogenerator Units | 569,943,615 | 1,107,676 | (1,001,785) | (28,092,238) | - | 541,957,269 |
| 324 Accessory Electric Equipment | 428,583,505 | 18,753,347 | (4,841,752) | - | - | 442,495,101 |
| 325 Miscellaneous Power Plant Equipment | 143,856,066 | 17,970,866 | (44,508) | - | - | 161,782,425 |
| Electric Nuclear Production Plant Total | \$ 3,224,066,467 | \$ 159,453,310 | \$ (16,793,430) | \$ - | \$ - | \$ 3,366,726,347 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,299,673 | 181,638 | (93,663) | - | - | 1,387,647 |
| 332 Reservoirs, Dams & Waterways | 8,805,169 | 6,775 | (29,380) | - | - | 8,782,564 |
| 333 Water Wheels, Turbines & Generators | 10,101,704 | 148,333 | (211,041) | - | - | 10,038,996 |
| 334 Accessory Electric Equipment | 3,392,321 | (99,985) | (35,364) | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 28,209,806 | \$ 236,760 | \$ (369,447) | \$ - | \$ - | \$ 28,077,119 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 4,958,572 | \$ - | \$ - | (297,837) | \$ - | \$ 4,660,735 |
| 340 Land & Land Rights - Other | 10,368,887 | - | - | - | - | 10,368,887 |
| 340 Wind Rights | 3,884,834 | - | - | - | - | 3,884,834 |
| 341 Structures & Improvements | 168,307,298 | 1,692,733 | (255,760) | - | - | 169,744,272 |
| 342 Fuel Holders, Producers & Accessories | 78,866,957 | 913,637 | (36,402) | (4,128,902) | - | 75,615,290 |
| 343 Prime Movers | - | - | - | - | - | - |
| 344 Generators | 1,398,645,232 | 5,919,199 | (3,026,054) | - | - | 1,401,538,377 |
| 345 Accessory Electric Equipment | 165,703,575 | 2,212,146 | (941,408) | - | - | 166,974,313 |
| 346 Miscellaneous Power Plant Equipment | 22,334,826 | 225,845 | (49,902) | - | - | 22,510,768 |
| 348 Energy Storage Equipment | - | - | - | 4,128,902 | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 1,853,070,182 | \$ 10,963,560 | \$ (4,309,526) | \$ (297,837) | \$ - | \$ 1,859,426,379 |
| TOTAL ELECTRIC UTILITY | \$ 10,205,982,270 | \$ 875,742,124 | \$ (59,377,898) | \$ 14,216,394 | \$ - | \$ 11,036,562,890 |

| Account Description | Beginning Balance 1/1/2014 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2014 |
|--|-------------------------------|-----------------------|------------------------|----------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | - | - | - | - | - | - |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| 303 Computer Software 10 Year | - | - | - | - | - | - |
| 303 Computer Software 15 year | - | - | - | - | - | - |
| 303 Computer Software - All | 239,176,171 | 54,708,510 | (867,148) | - | - | 293,017,533 |
| Common Intangible Plant Total | \$ 239,276,779 | \$ 54,708,510 | \$ (867,148) | \$ - | \$ - | \$ 293,118,141 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,171,657 | \$ - | \$ - | \$ - | \$ - | \$ 6,171,657 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 140,260,741 | 5,118,152 | (2,569,934) | - | - | 142,808,958 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,202,240 | - | - | - | - | 1,202,240 |
| 391 Office Furniture and Equipment | 27,148,873 | 1,506,453 | (5,902,551) | - | - | 22,752,776 |
| 391 Network Equipment | 60,129,706 | 22,256,336 | (10,839,036) | - | - | 71,547,007 |
| 392 Automobiles | 657,202 | 98,491 | - | - | - | 755,694 |
| 392 Light Trucks | 5,050,699 | 156,446 | - | - | - | 5,207,145 |
| 392 Trailers | 1,172,999 | - | - | - | - | 1,172,999 |
| 392 Heavy Trucks | 5,003,721 | 61,678 | - | - | - | 5,065,398 |
| 393 Stores Equipment | 176,183 | - | - | - | - | 176,183 |
| 394 Tools, Shop, and Garage Equipment | 2,678,546 | 469,888 | - | - | - | 3,148,434 |
| 395 Laboratory Equipment | 36,686 | - | - | - | - | 36,686 |
| 396 Power Operated Equipment | 900,554 | 48,148 | - | - | - | 948,702 |
| 397 Comm. & Telecomm. Equipment | 1,641,280 | - | (545,824) | - | - | 1,095,456 |
| 397 Communication Equipment - Two Way | 3,695,410 | - | (3,253) | - | - | 3,692,157 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 679,511 | (1,002) | - | - | - | 678,509 |
| Common General Plant Total | \$ 256,611,579 | \$ 29,714,591 | \$ (19,860,597) | \$ - | \$ - | \$ 266,465,573 |
| TOTAL COMMON UTILITY | \$ 495,888,358 | \$ 84,423,101 | \$ (20,727,745) | \$ - | \$ - | \$ 559,583,714 |
| TOTAL - ALL UTILITIES | \$ 10,701,870,628 | \$ 960,165,225 | \$ (80,105,643) | \$ 14,216,394 | \$ - | \$ 11,596,146,604 |

Note: 322 Reactor Plant Equipment excludes amounts in FERC 105 - Plant Held for Future Use

| Account Description | Beginning Balance 1/1/2015 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2015 |
|--|-------------------------------|-----------------------|------------------------|----------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 230,035 | \$ 33,272 | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | 86,441,640 | 32,984,416 | (6,155,198) | - | - | 113,270,858 |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| Electric Intangible Plant Total | \$ 86,671,675 | \$ 33,017,688 | \$ (6,155,198) | \$ - | \$ - | \$ 113,534,164 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 25,040,774 | \$ 5,804,399 | \$ (1,148,545) | \$ 295 | \$ - | \$ 29,696,924 |
| 350 Land - Other | 112,780,878 | 5,765,556 | - | - | - | 118,546,434 |
| 352 Structures and Improvements | 69,849,603 | 7,521,898 | (70,653) | 1,683,373 | - | 78,984,222 |
| 353 Station Equipment | 1,049,108,089 | 77,907,715 | (3,507,159) | 20,624,754 | - | 1,144,133,399 |
| 354 Towers and Fixtures | 118,649,978 | 556,200 | (10,264) | (689,542) | - | 118,506,371 |
| 355 Poles and Fixtures | 951,252,184 | 288,595,548 | (4,946,544) | 689,542 | - | 1,235,590,730 |
| 356 Overhead Conductors and Devices | 430,658,139 | 79,675,942 | (2,860,800) | - | - | 507,473,281 |
| 357 Underground Conduit | 25,743,474 | (95,755) | - | - | - | 25,647,719 |
| 358 Underground Conductor and Devices | 30,649,630 | 314,271 | (12,708) | - | - | 30,951,193 |
| Electric Transmission Plant Total | \$ 2,813,732,749 | \$ 466,045,774 | \$ (12,556,673) | \$ 22,308,422 | \$ - | \$ 3,289,530,273 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 916,797 | 284,382 | - | - | - | 1,201,179 |
| 362 Station Equipment | 26,787,212 | 566,828 | (195,952) | (305,089) | - | 26,852,999 |
| 364 Poles, Towers, and Fixtures | 13,187,206 | 705,864 | (68,740) | - | - | 13,824,330 |
| 365 Overhead Conductors and Devices | 18,784,045 | 1,051,787 | (406,775) | - | - | 19,429,057 |
| 366 Underground Conduit | 6,143,366 | 219,863 | (7,176) | - | - | 6,356,053 |
| 367 Underground Conductor and Devices | 54,715,227 | 4,159,831 | (332,488) | - | - | 58,542,570 |
| 368 Line Transformers | 22,508,184 | 1,391,296 | - | - | - | 23,899,480 |
| 368 Line Capacitors | 462,480 | 30,547 | (4,962) | - | - | 488,064 |
| 369 Overhead Services | 5,309,501 | 66,335 | (7,091) | - | - | 5,368,745 |
| 369 Underground Services | 8,012,706 | 238,327 | (1,188) | - | - | 8,249,845 |
| 370 Meters | 7,656,563 | 365,810 | (298,805) | - | - | 7,723,568 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 2,019,435 | 176,314 | (96,303) | - | - | 2,099,445 |
| Electric Distribution Plant Total (ND Only) | \$ 167,117,476 | \$ 9,257,184 | \$ (1,419,481) | \$ (305,089) | \$ - | \$ 174,650,090 |

| Account Description | Beginning Balance 1/1/2015 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2015 |
|---|-------------------------------|----------------------|------------------------|------------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ - | \$ - | \$ - | \$ - | \$ 4,438,256 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 59,057,637 | 5,736,559 | (1,474,613) | - | - | 63,319,583 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 35,652 | - | - | - | - | 35,652 |
| 391 Office Furniture and Equipment | 24,816,424 | 1,095,240 | (527,953) | - | - | 25,383,711 |
| 391 Network Equipment | 20,467,094 | 3,774,049 | (174,104) | - | - | 24,067,038 |
| 392 Automobiles | 519,032 | 74,919 | (8,718) | - | - | 585,233 |
| 392 Light Trucks | 27,256,100 | 4,646,219 | (57,114) | - | - | 31,845,205 |
| 392 Trailers | 11,507,091 | 5,874,936 | (38,497) | - | - | 17,343,530 |
| 392 Heavy Trucks | 67,240,536 | 28,074,750 | - | - | - | 95,315,285 |
| 393 Stores Equipment | 1,781,931 | - | (57,769) | - | - | 1,724,162 |
| 394 Tools, Shop, and Garage Equipment | 71,171,111 | 9,237,315 | (3,325,572) | - | - | 77,082,854 |
| 395 Laboratory Equipment | 3,234,096 | 588,119 | (283,177) | - | - | 3,539,038 |
| 396 Power Operated Equipment | 33,015,775 | 9,128,824 | (52,719) | - | - | 42,091,879 |
| 397 General Communication Equipment | 16,603,500 | 55,970 | (128,665) | - | - | 16,530,804 |
| 397 Communication Equipment - Two Way | 412,534 | 1,558,550 | - | - | - | 1,971,084 |
| 397 Comm. & Telecomm. Equipment - AES | 7,071,726 | - | - | - | - | 7,071,726 |
| 397 Comm. & Telecomm. Equipment - EMS | 19,100,022 | 4,501,417 | (241,981) | 30,017 | - | 23,389,475 |
| 398 Miscellaneous Equipment | 2,872,139 | 6,565 | (11,893) | - | - | 2,866,811 |
| Electric General Plant Total | \$ 370,601,319 | \$ 74,353,431 | \$ (6,382,776) | \$ 30,017 | \$ - | \$ 438,601,991 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 9,440,466 | \$ - | \$ - | \$ (950,861) | \$ - | \$ 8,489,605 |
| 310 Land & Land Rights - Other | 9,856 | - | - | (1,831) | - | 8,024 |
| 311 Structures & Improvements | 319,780,995 | 5,727,348 | (6,184,640) | (30,915,209) | - | 288,408,494 |
| 312 Boiler Plant Equipment | 1,435,350,821 | 49,944,530 | (62,426,930) | (13,667,016) | - | 1,409,201,404 |
| 314 Turbogenerator Units | 328,708,741 | 9,584,188 | (21,554,918) | (21,434,627) | - | 295,303,384 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 194,348,217 | 4,729,898 | (2,819,856) | (12,998,356) | - | 183,259,903 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 56,570,732 | 603,678 | (348,017) | (2,893,342) | - | 53,933,051 |
| Electric Steam Production Plant Total | \$ 2,344,209,827 | \$ 70,589,641 | \$ (93,334,361) | \$ (82,861,241) | \$ - | \$ 2,238,603,866 |

| Account Description | Beginning Balance 1/1/2015 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2015 |
|--|-------------------------------|-------------------------|-------------------------|----------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 228,464,910 | \$ 16,176,249 | \$ - | \$ - | \$ - | \$ 244,641,160 |
| 320 Land & Land Rights - Fee | 1,153,084 | - | - | - | - | 1,153,084 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 480,877,219 | 35,210,149 | (529,159) | - | - | 515,558,210 |
| 322 Reactor Plant Equipment | 1,509,994,609 | 40,297,099 | (3,193,057) | - | - | 1,547,098,650 |
| 323 Turbogenerator Units | 541,957,269 | 87,240,268 | (1,434,740) | - | - | 627,762,797 |
| 324 Accessory Electric Equipment | 442,495,101 | 35,391,882 | (823,703) | - | - | 477,063,280 |
| 325 Miscellaneous Power Plant Equipment | 161,782,425 | 37,050,731 | - | - | - | 198,833,156 |
| Electric Nuclear Production Plant Total | \$ 3,366,726,347 | \$ 251,366,379 | \$ (5,980,659) | \$ - | \$ - | \$ 3,612,112,067 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,387,647 | - | - | - | - | 1,387,647 |
| 332 Reservoirs, Dams & Waterways | 8,782,564 | 1,808,265 | - | - | - | 10,590,829 |
| 333 Water Wheels, Turbines & Generators | 10,038,996 | - | - | - | - | 10,038,996 |
| 334 Accessory Electric Equipment | 3,256,972 | - | - | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 28,077,119 | \$ 1,808,265 | \$ - | \$ - | \$ - | \$ 29,885,384 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 4,660,735 | \$ - | \$ - | \$ 952,692 | \$ - | \$ 5,613,427 |
| 340 Land & Land Rights - Other | 10,368,887 | - | - | - | - | 10,368,887 |
| 340 Wind Rights | 3,884,834 | - | - | - | - | 3,884,834 |
| 341 Structures & Improvements | 169,744,272 | 49,673,624 | (289,718) | 31,405,596 | - | 250,533,773 |
| 342 Fuel Holders, Producers & Accessories | 75,615,290 | 982,098 | (34,765) | 7,729,067 | - | 84,291,690 |
| 343 Prime Movers | - | - | - | - | - | - |
| 344 Generators | 1,401,538,377 | 491,132,767 | (7,842,656) | 22,012,827 | - | 1,906,841,315 |
| 345 Accessory Electric Equipment | 166,974,313 | 71,570,879 | (102,298) | 12,411,822 | - | 250,854,716 |
| 346 Miscellaneous Power Plant Equipment | 22,510,768 | 540,834 | (89,473) | 8,373,236 | - | 31,335,365 |
| 348 Energy Storage Equipment | 4,128,902 | - | - | - | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 1,859,426,378 | \$ 613,900,202 | \$ (8,358,911) | \$ 82,885,241 | \$ - | \$ 2,547,852,910 |
| TOTAL ELECTRIC UTILITY | \$ 11,036,562,890 | \$ 1,520,338,564 | \$ (134,188,060) | \$ 22,057,350 | \$ - | \$ 12,444,770,745 |

| Account Description | Beginning Balance 1/1/2015 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2015 |
|--|-------------------------------|-------------------------|-------------------------|----------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | - | - | - | - | - | - |
| 303 Computer Software 5 Year | - | - | - | - | - | - |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| 303 Computer Software 10 Year | - | - | - | - | - | - |
| 303 Computer Software 15 year | - | - | - | - | - | - |
| 303 Computer Software - All | 293,017,533 | 38,752,935 | (5,674,212) | - | - | 326,096,256 |
| Common Intangible Plant Total | \$ 293,118,141 | \$ 38,752,935 | \$ (5,674,212) | \$ - | \$ - | \$ 326,196,864 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,171,657 | \$ 19,679 | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 142,808,958 | 9,271,121 | (1,033,009) | (58,682) | - | 150,988,388 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,202,240 | - | - | 58,682 | - | 1,260,922 |
| 391 Office Furniture and Equipment | 22,752,776 | 648,614 | - | - | - | 23,401,389 |
| 391 Network Equipment | 71,547,007 | 21,016,030 | (9,137,814) | - | - | 83,425,223 |
| 392 Automobiles | 755,694 | 182,366 | (165,915) | - | - | 772,145 |
| 392 Light Trucks | 5,207,145 | 191,955 | (254,091) | - | - | 5,145,009 |
| 392 Trailers | 1,172,999 | - | (116,343) | - | - | 1,056,656 |
| 392 Heavy Trucks | 5,065,398 | 439,185 | - | - | - | 5,504,584 |
| 393 Stores Equipment | 176,183 | - | - | - | - | 176,183 |
| 394 Tools, Shop, and Garage Equipment | 3,148,434 | 670,930 | (145,898) | - | - | 3,673,466 |
| 395 Laboratory Equipment | 36,686 | - | - | - | - | 36,686 |
| 396 Power Operated Equipment | 948,702 | 11,126 | (4,968) | - | - | 954,860 |
| 397 Comm. & Telecomm. Equipment | 1,095,456 | - | (126,372) | - | - | 969,084 |
| 397 Communication Equipment - Two Way | 3,692,157 | - | (59,122) | - | - | 3,633,035 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 678,509 | 8,247 | (46,651) | - | - | 640,105 |
| Common General Plant Total | \$ 266,465,573 | \$ 32,459,254 | \$ (11,090,182) | \$ - | \$ - | \$ 287,834,644 |
| TOTAL COMMON UTILITY | \$ 559,583,714 | \$ 71,212,189 | \$ (16,764,395) | \$ - | \$ - | \$ 614,031,508 |
| TOTAL - ALL UTILITIES | \$ 11,596,146,604 | \$ 1,591,550,753 | \$ (150,952,455) | \$ 22,057,350 | \$ - | \$ 13,058,802,253 |

Note: 322 Reactor Plant Equipment excludes amounts in FERC 105 - Plant Held for Future Use

| Account Description | Beginning Balance 1/1/2016 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2016 |
|--|-------------------------------|-----------------------|-----------------------|---------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 263,307 | \$ - | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | - | - | - | 201,839 | - | 201,839 |
| 303 Computer Software 5 Year | 113,270,858 | 1,901,697 | - | (823,816) | - | 114,348,738 |
| 303 Computer Software 7 Year | - | - | - | 621,977 | - | 621,977 |
| Electric Intangible Plant Total | \$ 113,534,164 | \$ 1,901,697 | \$ - | \$ - | \$ - | \$ 115,435,861 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 29,696,924 | \$ (1,884,491) | \$ - | \$ - | \$ - | \$ 27,812,433 |
| 350 Land - Other | 118,546,434 | 6,349,152 | - | - | - | 124,895,586 |
| 352 Structures and Improvements | 78,984,222 | 24,136,683 | (34,538) | - | - | 103,086,366 |
| 353 Station Equipment | 1,144,133,399 | 34,040,538 | (718,155) | 3,993,428 | - | 1,181,449,210 |
| 354 Towers and Fixtures | 118,506,371 | 125,488 | - | - | - | 118,631,858 |
| 355 Poles and Fixtures | 1,235,590,730 | 94,796,313 | 169,019 | - | - | 1,330,556,061 |
| 356 Overhead Conductors and Devices | 507,473,281 | 24,812,943 | 417,878 | - | - | 532,704,102 |
| 357 Underground Conduit | 25,647,719 | 262,419 | - | - | - | 25,910,138 |
| 358 Underground Conductor and Devices | 30,951,193 | (240,619) | - | - | - | 30,710,573 |
| Electric Transmission Plant Total | \$ 3,289,530,273 | \$ 182,398,425 | \$ (165,797) | \$ 3,993,428 | \$ - | \$ 3,475,756,328 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 1,201,179 | 16,128 | (407) | - | - | 1,216,900 |
| 362 Station Equipment | 26,852,999 | 812,868 | (1,601,774) | - | - | 26,064,093 |
| 364 Poles, Towers, and Fixtures | 13,824,330 | 825,732 | (23,942) | - | - | 14,626,120 |
| 365 Overhead Conductors and Devices | 19,429,057 | 1,394,495 | (167,576) | - | - | 20,655,977 |
| 366 Underground Conduit | 6,356,053 | 360,078 | (3,352) | - | - | 6,712,778 |
| 367 Underground Conductor and Devices | 58,542,570 | 1,062,687 | (96,678) | - | - | 59,508,579 |
| 368 Line Transformers | 23,899,480 | 1,472,919 | (1,424,738) | - | - | 23,947,661 |
| 368 Line Capacitors | 488,064 | 165,211 | (5,246) | - | - | 648,029 |
| 369 Overhead Services | 5,368,745 | 52,026 | (27,146) | - | - | 5,393,625 |
| 369 Underground Services | 8,249,845 | 167,724 | (6,103) | - | - | 8,411,467 |
| 370 Meters | 7,723,568 | 352,235 | (326,522) | - | - | 7,749,280 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 2,099,445 | 1,428,878 | (106,373) | - | - | 3,421,950 |
| Electric Distribution Plant Total (ND Only) | \$ 174,650,090 | \$ 8,110,981 | \$ (3,789,857) | \$ - | \$ - | \$ 178,971,215 |

| Account Description | Beginning Balance 1/1/2016 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2016 |
|---|-------------------------------|----------------------|-----------------------|-----------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ - | \$ - | \$ - | \$ - | \$ 4,438,256 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 63,319,583 | 561,932 | (373,209) | - | - | 63,508,306 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 35,652 | - | - | - | - | 35,652 |
| 391 Office Furniture and Equipment | 25,383,711 | 2,377,282 | (167,132) | - | - | 27,593,861 |
| 391 Network Equipment | 24,067,038 | 10,907,725 | (2,576,703) | - | - | 32,398,061 |
| 392 Automobiles | 585,233 | 523,580 | - | - | - | 1,108,813 |
| 392 Light Trucks | 31,845,205 | 1,640,294 | (653,030) | - | - | 32,832,470 |
| 392 Trailers | 17,343,530 | 565,062 | (30,514) | - | - | 17,878,078 |
| 392 Heavy Trucks | 95,315,285 | 2,274,076 | - | - | - | 97,589,361 |
| 393 Stores Equipment | 1,724,162 | - | (75,371) | - | - | 1,648,791 |
| 394 Tools, Shop, and Garage Equipment | 77,082,854 | 6,427,414 | (2,209,131) | - | - | 81,301,137 |
| 395 Laboratory Equipment | 3,539,038 | 145,418 | (474,723) | - | - | 3,209,733 |
| 396 Power Operated Equipment | 42,091,879 | 3,871,307 | (828,369) | - | - | 45,134,817 |
| 397 General Communication Equipment | 16,530,804 | 646,583 | (59,926) | - | - | 17,117,461 |
| 397 Communication Equipment - Two Way | 1,971,084 | 4,709,186 | (147,907) | - | - | 6,532,362 |
| 397 Comm. & Telecomm. Equipment - AES | 7,071,726 | - | - | - | - | 7,071,726 |
| 397 Comm. & Telecomm. Equipment - EMS | 23,389,475 | 23,815,049 | - | 71,334 | - | 47,275,858 |
| 398 Miscellaneous Equipment | 2,866,811 | - | (142,970) | - | - | 2,723,841 |
| Electric General Plant Total | \$ 438,601,991 | \$ 58,464,907 | \$ (7,738,984) | \$ 71,334 | \$ - | \$ 489,399,248 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 8,489,605 | \$ - | \$ - | \$ - | \$ - | \$ 8,489,605 |
| 310 Land & Land Rights - Other | 8,024 | - | - | - | - | 8,024 |
| 311 Structures & Improvements | 288,408,494 | 242,993 | (281,753) | (23,680) | - | 288,346,053 |
| 312 Boiler Plant Equipment | 1,409,201,404 | 16,808,206 | (2,577,356) | (471,947) | - | 1,422,960,307 |
| 314 Turbogenerator Units | 295,303,384 | 20,940,947 | (1,721,463) | (8,768,433) | - | 305,754,435 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 183,259,903 | 704,329 | (240,768) | (152,512) | - | 183,570,952 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,933,051 | 110,708 | (46,890) | - | - | 53,996,869 |
| Electric Steam Production Plant Total | \$ 2,238,603,866 | \$ 38,807,184 | \$ (4,868,230) | \$ (9,416,573) | \$ - | \$ 2,263,126,246 |

| Account Description | Beginning Balance 1/1/2016 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2016 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 244,641,160 | \$ 255,644 | \$ - | \$ - | \$ - | \$ 244,896,804 |
| 320 Land & Land Rights - Fee | 1,153,084 | 607,496 | - | - | - | 1,760,581 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 515,558,210 | 39,529,177 | (5,163,001) | - | - | 549,924,386 |
| 322 Reactor Plant Equipment | 1,547,098,650 | 65,349,260 | (17,759,844) | - | - | 1,594,688,066 |
| 323 Turbogenerator Units | 627,762,797 | 5,504,787 | (2,248,256) | - | - | 631,019,328 |
| 324 Accessory Electric Equipment | 477,063,280 | 7,170,937 | (565,078) | - | - | 483,669,139 |
| 325 Miscellaneous Power Plant Equipment | 198,833,156 | 10,532,255 | (3,941,922) | - | - | 205,423,490 |
| Electric Nuclear Production Plant Total | \$ 3,612,112,067 | \$ 128,949,556 | \$ (29,678,101) | \$ - | \$ - | \$ 3,711,383,523 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,387,647 | - | - | - | - | 1,387,647 |
| 332 Reservoirs, Dams & Waterways | 10,590,829 | 215,855 | - | - | - | 10,806,684 |
| 333 Water Wheels, Turbines & Generators | 10,038,996 | - | - | - | - | 10,038,996 |
| 334 Accessory Electric Equipment | 3,256,972 | - | - | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 29,885,384 | \$ 215,855 | \$ - | \$ - | \$ - | \$ 30,101,238 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 5,613,427 | \$ - | \$ - | \$ - | \$ - | \$ 5,613,427 |
| 340 Land & Land Rights - Other | 10,368,887 | - | - | - | - | 10,368,887 |
| 340 Wind Rights | 3,884,834 | 2,090,672 | - | - | - | 5,975,507 |
| 341 Structures & Improvements | 250,533,773 | 8,500,336 | (24,205) | 23,680 | - | 259,033,584 |
| 342 Fuel Holders, Producers & Accessories | 84,291,690 | (31,817) | (112,959) | 471,947 | - | 84,618,861 |
| 343 Prime Movers | - | - | - | - | - | - |
| 344 Generators | 1,906,841,315 | 270,947,705 | (3,843,201) | 8,768,433 | - | 2,182,714,252 |
| 345 Accessory Electric Equipment | 250,854,716 | 18,100,417 | (27,938) | 152,512 | - | 269,079,707 |
| 346 Miscellaneous Power Plant Equipment | 31,335,365 | 36,400 | (95,713) | - | - | 31,276,052 |
| 348 Energy Storage Equipment | 4,128,902 | - | - | - | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 2,547,852,910 | \$ 299,643,713 | \$ (4,104,017) | \$ 9,416,573 | \$ - | \$ 2,852,809,179 |
| TOTAL ELECTRIC UTILITY | \$ 12,444,770,745 | \$ 718,492,317 | \$ (50,344,986) | \$ 4,064,761 | \$ - | \$ 13,116,982,837 |

| Account Description | Beginning Balance 1/1/2016 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2016 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | - | - | - | 7,673,530 | - | 7,673,530 |
| 303 Computer Software 5 Year | - | - | - | 197,541,349 | - | 197,541,349 |
| 303 Computer Software 7 Year | - | - | - | 44,140,612 | - | 44,140,612 |
| 303 Computer Software 10 Year | - | - | - | 68,449,240 | - | 68,449,240 |
| 303 Computer Software 15 year | - | - | - | 61,015,418 | - | 61,015,418 |
| 303 Computer Software - All | 326,096,256 | 58,837,506 | (6,113,612) | (378,820,150) | - | - |
| Common Intangible Plant Total | \$ 326,196,864 | \$ 58,837,506 | \$ (6,113,612) | \$ - | \$ - | \$ 378,920,757 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,191,336 | \$ - | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 150,988,388 | 1,653,449 | (828,431) | - | - | 151,813,406 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,260,922 | 17,248,527 | - | - | - | 18,509,449 |
| 391 Office Furniture and Equipment | 23,401,389 | 3,740,171 | - | - | - | 27,141,560 |
| 391 Network Equipment | 83,425,223 | 26,514,853 | (9,493,912) | - | - | 100,446,164 |
| 392 Automobiles | 772,145 | 51,320 | - | - | - | 823,465 |
| 392 Light Trucks | 5,145,009 | 307,716 | (2,021,256) | - | - | 3,431,469 |
| 392 Trailers | 1,056,656 | 79,011 | (35,980) | - | - | 1,099,687 |
| 392 Heavy Trucks | 5,504,584 | 859 | - | - | - | 5,505,442 |
| 393 Stores Equipment | 176,183 | 82,000 | (12,021) | - | - | 246,162 |
| 394 Tools, Shop, and Garage Equipment | 3,673,466 | 372,133 | (3,890) | - | - | 4,041,708 |
| 395 Laboratory Equipment | 36,686 | - | (36,686) | - | - | - |
| 396 Power Operated Equipment | 954,860 | 36,053 | - | - | - | 990,912 |
| 397 Comm. & Telecomm. Equipment | 969,084 | 19,488 | (24,140) | - | - | 964,432 |
| 397 Communication Equipment - Two Way | 3,633,035 | 75,068 | (3,633,035) | - | - | 75,068 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 640,105 | - | (57,878) | - | - | 582,227 |
| Common General Plant Total | \$ 287,834,644 | \$ 50,180,646 | \$ (16,147,229) | \$ - | \$ - | \$ 321,868,061 |
| TOTAL COMMON UTILITY | \$ 614,031,508 | \$ 109,018,152 | \$ (22,260,841) | \$ - | \$ - | \$ 700,788,819 |
| TOTAL - ALL UTILITIES | \$ 13,058,802,253 | \$ 827,510,469 | \$ (72,605,827) | \$ 4,064,761 | \$ - | \$ 13,817,771,655 |

Note: 322 Reactor Plant Equipment excludes amounts in FERC 105 - Plant Held for Future Use

| Account Description | Beginning Balance 1/1/2017 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2017 |
|--|-------------------------------|-----------------------|------------------------|---------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 263,307 | \$ - | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | 201,839 | - | - | - | - | 201,839 |
| 303 Computer Software 5 Year | 114,348,738 | 4,697,127 | (6,968,483) | - | - | 112,077,383 |
| 303 Computer Software 7 Year | 621,977 | - | (621,977) | - | - | - |
| Electric Intangible Plant Total | \$ 115,435,861 | \$ 4,697,127 | \$ (7,590,460) | \$ - | \$ - | \$ 112,542,528 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 27,812,433 | \$ 4,759,378 | \$ - | \$ - | \$ - | \$ 32,571,811 |
| 350 Land - Other | 124,895,586 | 4,706,330 | - | - | - | 129,601,916 |
| 352 Structures and Improvements | 103,086,366 | 4,205,323 | (293,468) | 62 | - | 106,998,283 |
| 353 Station Equipment | 1,181,449,210 | 39,250,830 | (5,564,753) | 936 | - | 1,215,136,223 |
| 354 Towers and Fixtures | 118,631,858 | 38,199 | (234,767) | - | - | 118,435,290 |
| 355 Poles and Fixtures | 1,330,556,061 | 64,044,761 | (12,670,748) | 30,352 | - | 1,381,960,426 |
| 356 Overhead Conductors and Devices | 532,704,102 | 19,768,423 | (11,125,861) | (30,352) | - | 541,316,313 |
| 357 Underground Conduit | 25,910,138 | 3,074,051 | (7,882) | - | - | 28,976,307 |
| 358 Underground Conductor and Devices | 30,710,573 | 6,516,004 | - | - | - | 37,226,577 |
| Electric Transmission Plant Total | \$ 3,475,756,328 | \$ 146,363,299 | \$ (29,897,479) | \$ 997 | \$ - | \$ 3,592,223,145 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 1,216,900 | (0) | - | - | - | 1,216,900 |
| 362 Station Equipment | 26,064,093 | 558,975 | (340,417) | - | - | 26,282,651 |
| 364 Poles, Towers, and Fixtures | 14,626,120 | 799,987 | (72,991) | - | - | 15,353,116 |
| 365 Overhead Conductors and Devices | 20,655,977 | 598,006 | (450,849) | - | - | 20,803,135 |
| 366 Underground Conduit | 6,712,778 | 176,103 | (3,446) | - | - | 6,885,435 |
| 367 Underground Conductor and Devices | 59,508,579 | 2,225,399 | (225,333) | - | - | 61,508,645 |
| 368 Line Transformers | 23,947,661 | 1,189,811 | (728,726) | - | - | 24,408,746 |
| 368 Line Capacitors | 648,029 | 32,345 | (5,246) | - | - | 675,129 |
| 369 Overhead Services | 5,393,625 | 102,019 | (28,532) | - | - | 5,467,112 |
| 369 Underground Services | 8,411,467 | 142,645 | (5,193) | - | - | 8,548,919 |
| 370 Meters | 7,749,280 | 372,608 | (696,672) | - | - | 7,425,216 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 3,421,950 | 221,235 | (564,416) | - | - | 3,078,769 |
| Electric Distribution Plant Total (ND Only) | \$ 178,971,215 | \$ 6,419,134 | \$ (3,121,820) | \$ - | \$ - | \$ 182,268,528 |

| Account Description | Beginning Balance 1/1/2017 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2017 |
|---|-------------------------------|----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,438,256 | \$ 45,181 | \$ - | \$ - | \$ - | \$ 4,483,437 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 63,508,306 | 2,810,087 | (1,071,008) | (96,034) | - | 65,151,352 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 35,652 | - | - | - | - | 35,652 |
| 391 Office Furniture and Equipment | 27,593,861 | 392,919 | (10,500) | - | - | 27,976,279 |
| 391 Network Equipment | 32,398,061 | 6,487,812 | (1,028,106) | - | - | 37,857,767 |
| 392 Automobiles | 1,108,813 | 3,398,297 | (274,981) | - | - | 4,232,129 |
| 392 Light Trucks | 32,832,470 | 1,070,207 | (4,334,154) | - | - | 29,568,523 |
| 392 Trailers | 17,878,078 | 1,291,442 | - | 0 | - | 19,169,520 |
| 392 Heavy Trucks | 97,589,361 | 13,114,082 | - | (0) | - | 110,703,443 |
| 393 Stores Equipment | 1,648,791 | 9,615 | (26,668) | 0 | - | 1,631,738 |
| 394 Tools, Shop, and Garage Equipment | 81,301,137 | 8,867,825 | (267,599) | (0) | - | 89,901,364 |
| 395 Laboratory Equipment | 3,209,733 | 215,972 | (428,134) | - | - | 2,997,571 |
| 396 Power Operated Equipment | 45,134,817 | 2,150,060 | (1,180,759) | - | - | 46,104,118 |
| 397 General Communication Equipment | 17,117,461 | 440,387 | (697,762) | - | - | 16,860,086 |
| 397 Communication Equipment - Two Way | 6,532,362 | 18,013,622 | - | 107 | - | 24,546,091 |
| 397 Comm. & Telecomm. Equipment - AES | 7,071,726 | 24,144 | - | - | - | 7,095,870 |
| 397 Comm. & Telecomm. Equipment - EMS | 47,275,858 | 6,687,257 | (110,237) | - | - | 53,852,877 |
| 398 Miscellaneous Equipment | 2,723,841 | 695,422 | (82,583) | 0 | - | 3,336,680 |
| Electric General Plant Total | \$ 489,399,248 | \$ 65,714,330 | \$ (9,512,490) | \$ (95,927) | \$ - | \$ 545,505,161 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 8,489,605 | \$ 64,855 | \$ (88) | \$ - | \$ - | \$ 8,554,373 |
| 310 Land & Land Rights - Other | 8,024 | - | - | - | - | 8,024 |
| 311 Structures & Improvements | 288,346,053 | 541,183 | (173,423) | - | 96,034 | 288,809,847 |
| 312 Boiler Plant Equipment | 1,422,960,307 | 30,783,283 | (10,477,695) | - | - | 1,443,265,895 |
| 314 Turbogenerator Units | 305,754,435 | 4,448,610 | (2,891,641) | (462,541) | - | 306,848,863 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 183,570,952 | 2,232,630 | (338,279) | 127 | - | 185,465,430 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,996,869 | 67,535 | (19,499) | - | - | 54,044,905 |
| Electric Steam Production Plant Total | \$ 2,263,126,246 | \$ 38,138,096 | \$ (13,900,625) | \$ (462,414) | \$ 96,034 | \$ 2,286,997,337 |

| Account Description | Beginning Balance 1/1/2017 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2017 |
|--|-------------------------------|-----------------------|------------------------|--------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 244,896,804 | \$ 649,542 | \$ - | \$ - | \$ - | \$ 245,546,345 |
| 320 Land & Land Rights - Fee | 1,760,581 | 53 | - | - | - | 1,760,634 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 549,924,386 | 30,591,071 | (3,280,743) | - | - | 577,234,715 |
| 322 Reactor Plant Equipment | 1,594,688,066 | 49,560,656 | (8,794,065) | 106,272,224 | - | 1,741,726,881 |
| 323 Turbogenerator Units | 631,019,328 | 5,473,284 | (3,609,645) | (106,272,224) | - | 526,610,742 |
| 324 Accessory Electric Equipment | 483,669,139 | 30,088,613 | (1,413,541) | - | - | 512,344,212 |
| 325 Miscellaneous Power Plant Equipment | 205,423,490 | 1,575,614 | (298,817) | - | - | 206,700,287 |
| Electric Nuclear Production Plant Total | \$ 3,711,383,523 | \$ 117,938,833 | \$ (17,396,810) | \$ - | \$ - | \$ 3,811,925,546 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,387,647 | - | - | - | - | 1,387,647 |
| 332 Reservoirs, Dams & Waterways | 10,806,684 | 24,440 | (1,259) | - | - | 10,829,865 |
| 333 Water Wheels, Turbines & Generators | 10,038,996 | 18,494 | - | - | - | 10,057,490 |
| 334 Accessory Electric Equipment | 3,256,972 | - | - | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 30,101,238 | \$ 42,934 | \$ (1,259) | \$ - | \$ - | \$ 30,142,914 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 5,613,427 | \$ - | \$ (15,949) | \$ - | \$ - | \$ 5,597,478 |
| 340 Land & Land Rights - Other | 10,368,887 | - | - | - | - | 10,368,887 |
| 340 Wind Rights | 5,975,507 | (4,365) | - | - | - | 5,971,141 |
| 341 Structures & Improvements | 259,033,584 | 2,817,830 | (195,757) | - | - | 261,655,657 |
| 342 Fuel Holders, Producers & Accessories | 84,618,861 | (107,436) | (23,977) | - | - | 84,487,448 |
| 343 Prime Movers | - | - | - | - | - | - |
| 344 Generators | 2,182,714,252 | 7,469,969 | (8,989,441) | 462,541 | - | 2,181,657,321 |
| 345 Accessory Electric Equipment | 269,079,707 | 3,529,178 | (710,215) | (127) | - | 271,898,543 |
| 346 Miscellaneous Power Plant Equipment | 31,276,052 | 166,229 | (175) | - | - | 31,442,106 |
| 348 Energy Storage Equipment | 4,128,902 | - | - | - | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 2,852,809,179 | \$ 13,871,404 | \$ (9,935,514) | \$ 462,414 | \$ - | \$ 2,857,207,483 |
| TOTAL ELECTRIC UTILITY | \$ 13,116,982,837 | \$ 393,185,158 | \$ (91,356,457) | \$ (94,930) | \$ 96,034 | \$ 13,418,812,642 |

| Account Description | Beginning Balance 1/1/2017 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2017 |
|--|-------------------------------|-----------------------|-------------------------|--------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | 7,673,530 | - | - | - | - | 7,673,530 |
| 303 Computer Software 5 Year | 197,541,349 | 28,239,741 | (42,169,992) | - | - | 183,611,097 |
| 303 Computer Software 7 Year | 44,140,612 | - | (22,334,391) | - | - | 21,806,222 |
| 303 Computer Software 10 Year | 68,449,240 | - | (57,983,522) | - | - | 10,465,718 |
| 303 Computer Software 15 year | 61,015,418 | 85,475,325 | - | - | - | 146,490,743 |
| 303 Computer Software - All | - | - | - | - | - | - |
| Common Intangible Plant Total | \$ 378,920,757 | \$ 113,715,066 | \$ (122,487,905) | \$ - | \$ - | \$ 370,147,918 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,191,336 | \$ - | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 151,813,406 | 9,192,592 | 1,979,036 | (831,393) | - | 162,153,641 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 18,509,449 | 6,903 | (1,260,922) | 831,393 | - | 18,086,824 |
| 391 Office Furniture and Equipment | 27,141,560 | 1,998,864 | (3,309,111) | - | - | 25,831,314 |
| 391 Network Equipment | 100,446,164 | 25,951,890 | (15,858,954) | - | - | 110,539,100 |
| 392 Automobiles | 823,465 | 445,109 | - | - | - | 1,268,574 |
| 392 Light Trucks | 3,431,469 | 491,788 | (481,177) | - | - | 3,442,079 |
| 392 Trailers | 1,099,687 | - | (48,119) | - | - | 1,051,568 |
| 392 Heavy Trucks | 5,505,442 | 471,842 | (1,252,353) | - | - | 4,724,931 |
| 393 Stores Equipment | 246,162 | 0 | - | - | - | 246,162 |
| 394 Tools, Shop, and Garage Equipment | 4,041,708 | 369,434 | (10,892) | - | - | 4,400,251 |
| 395 Laboratory Equipment | - | - | - | - | - | - |
| 396 Power Operated Equipment | 990,912 | (36,053) | (281,183) | - | - | 673,676 |
| 397 Comm. & Telecomm. Equipment | 964,432 | - | (248,569) | - | - | 715,864 |
| 397 Communication Equipment - Two Way | 75,068 | 1,802 | - | - | - | 76,870 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 582,227 | - | (126,075) | - | - | 456,153 |
| Common General Plant Total | \$ 321,868,061 | \$ 38,894,171 | \$ (20,898,318) | \$ - | \$ - | \$ 339,863,914 |
| TOTAL COMMON UTILITY | \$ 700,788,819 | \$ 152,609,237 | \$ (143,386,223) | \$ - | \$ - | \$ 710,011,832 |
| TOTAL - ALL UTILITIES | \$ 13,817,771,655 | \$ 545,794,395 | \$ (234,742,680) | \$ (94,930) | \$ 96,034 | \$ 14,128,824,474 |

Note: 322 Reactor Plant Equipment excludes amounts in FERC 105 - Plant Held for Future Use

| Account Description | Beginning Balance 1/1/2018 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2018 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 263,307 | \$ - | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | 201,839 | - | - | - | - | 201,839 |
| 303 Computer Software 5 Year | 112,077,383 | 36,003,167 | (9,453,519) | - | - | 138,627,032 |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| Electric Intangible Plant Total | \$ 112,542,528 | \$ 36,003,167 | \$ (9,453,519) | \$ - | \$ - | \$ 139,092,177 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 32,571,811 | \$ 1,082,935 | \$ (10,132,064) | \$ (612,169) | \$ - | \$ 22,910,512 |
| 350 Land - Other | 129,601,916 | 2,381,426 | - | 496,838 | - | 132,480,180 |
| 352 Structures and Improvements | 106,998,283 | 10,288,417 | (165,875) | (148,846) | - | 116,971,979 |
| 353 Station Equipment | 1,215,136,223 | 42,712,680 | (5,643,840) | (150,831) | - | 1,252,054,232 |
| 354 Towers and Fixtures | 118,435,290 | (167,047) | (125,948) | - | - | 118,142,295 |
| 355 Poles and Fixtures | 1,381,960,426 | 18,828,148 | (1,073,328) | (5,906) | - | 1,399,709,340 |
| 356 Overhead Conductors and Devices | 541,316,313 | 51,662,748 | 567,196 | 7,430 | - | 593,553,686 |
| 357 Underground Conduit | 28,976,307 | 12,045 | (47,205) | - | - | 28,941,147 |
| 358 Underground Conductor and Devices | 37,226,577 | 89,649 | (117) | - | - | 37,316,110 |
| Electric Transmission Plant Total | \$ 3,592,223,145 | \$ 126,891,002 | \$ (16,621,182) | \$ (413,484) | \$ - | \$ 3,702,079,481 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ - | \$ - | \$ 614,755 |
| 361 Structures and Improvements | 1,216,900 | 333 | - | - | - | 1,217,233 |
| 362 Station Equipment | 26,282,651 | 2,022,945 | (544,430) | - | - | 27,761,166 |
| 364 Poles, Towers, and Fixtures | 15,353,116 | 666,895 | (33,591) | - | - | 15,986,420 |
| 365 Overhead Conductors and Devices | 20,803,135 | 507,812 | (160,213) | - | - | 21,150,733 |
| 366 Underground Conduit | 6,885,435 | 339,939 | (1,770) | - | - | 7,223,604 |
| 367 Underground Conductor and Devices | 61,508,645 | 2,368,532 | (50,515) | - | - | 63,826,662 |
| 368 Line Transformers | 24,408,746 | 1,923,388 | (608,588) | - | - | 25,723,546 |
| 368 Line Capacitors | 675,129 | 99,731 | - | - | - | 774,860 |
| 369 Overhead Services | 5,467,112 | 93,053 | (1,333) | - | - | 5,558,832 |
| 369 Underground Services | 8,548,919 | 295,007 | (505) | - | - | 8,843,421 |
| 370 Meters | 7,425,216 | 36,912 | (159,068) | - | - | 7,303,060 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 3,078,769 | 145,216 | (102,865) | - | - | 3,121,121 |
| Electric Distribution Plant Total (ND Only) | \$ 182,268,528 | \$ 8,499,762 | \$ (1,662,877) | \$ - | \$ - | \$ 189,105,413 |

| Account Description | Beginning Balance 1/1/2018 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2018 |
|---|-------------------------------|----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,483,437 | \$ - | \$ - | \$ - | \$ - | \$ 4,483,437 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 65,151,352 | 7,392,710 | (107,445) | 1,206,726 | - | 73,643,342 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 35,652 | 1,032,766 | - | - | - | 1,068,418 |
| 391 Office Furniture and Equipment | 27,976,279 | 2,333,263 | - | - | - | 30,309,543 |
| 391 Network Equipment | 37,857,767 | 2,184,414 | (5,902,021) | - | - | 34,140,160 |
| 392 Automobiles | 4,232,129 | 1,451,394 | - | - | - | 5,683,523 |
| 392 Light Trucks | 29,568,523 | 4,654,320 | (64,457) | - | - | 34,158,386 |
| 392 Trailers | 19,169,520 | 1,719,412 | (151,940) | - | - | 20,736,992 |
| 392 Heavy Trucks | 110,703,443 | 5,454,952 | (2,154,591) | - | - | 114,003,804 |
| 393 Stores Equipment | 1,631,738 | - | - | - | - | 1,631,738 |
| 394 Tools, Shop, and Garage Equipment | 89,901,364 | 8,730,298 | (45,193) | - | - | 98,586,469 |
| 395 Laboratory Equipment | 2,997,571 | 178,132 | (31,275) | - | - | 3,144,428 |
| 396 Power Operated Equipment | 46,104,118 | 4,655,427 | - | - | - | 50,759,545 |
| 397 General Communication Equipment | 16,860,086 | 685,722 | (172,388) | 1,281 | - | 17,374,702 |
| 397 Communication Equipment - Two Way | 24,546,091 | 24,106,357 | - | - | - | 48,652,448 |
| 397 Comm. & Telecomm. Equipment - AES | 7,095,870 | - | - | - | - | 7,095,870 |
| 397 Comm. & Telecomm. Equipment - EMS | 53,852,877 | (8,946,501) | - | - | - | 44,906,377 |
| 398 Miscellaneous Equipment | 3,336,680 | 30,302 | (5,230) | - | - | 3,361,752 |
| Electric General Plant Total | \$ 545,505,161 | \$ 55,662,967 | \$ (8,634,539) | \$ 1,208,007 | \$ - | \$ 593,741,596 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 8,554,373 | \$ - | \$ - | \$ - | \$ - | \$ 8,554,373 |
| 310 Land & Land Rights - Other | 8,024 | - | - | - | - | 8,024 |
| 311 Structures & Improvements | 288,809,847 | 7,421,223 | (4,289,575) | - | - | 291,941,494 |
| 312 Boiler Plant Equipment | 1,443,265,895 | 30,545,878 | (13,080,002) | - | - | 1,460,731,771 |
| 314 Turbogenerator Units | 306,848,863 | 20,556,650 | (2,693,934) | (250,076) | - | 324,461,502 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 185,465,430 | 2,350,212 | (750,946) | - | - | 187,064,696 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 54,044,905 | 71,294 | (313,358) | 84,854 | - | 53,887,695 |
| Electric Steam Production Plant Total | \$ 2,286,997,337 | \$ 60,945,257 | \$ (21,127,816) | \$ (165,222) | \$ - | \$ 2,326,649,555 |

| Account Description | Beginning Balance 1/1/2018 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2018 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 245,546,345 | \$ 1,614,699 | \$ - | \$ - | \$ - | \$ 247,161,045 |
| 320 Land & Land Rights - Fee | 1,760,634 | - | - | - | - | 1,760,634 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 577,234,715 | 13,375,547 | (1,115,961) | (1,206,726) | - | 588,287,575 |
| 322 Reactor Plant Equipment | 1,741,726,881 | 121,654,588 | (6,894,554) | 6,687,377 | - | 1,863,174,292 |
| 323 Turbogenerator Units | 526,610,742 | 97,437,213 | (2,629,062) | - | - | 621,418,893 |
| 324 Accessory Electric Equipment | 512,344,212 | 28,636,650 | (1,848,222) | - | - | 539,132,640 |
| 325 Miscellaneous Power Plant Equipment | 206,700,287 | 441,882 | (432,465) | (84,854) | - | 206,624,850 |
| Electric Nuclear Production Plant Total | \$ 3,811,925,546 | \$ 263,160,581 | \$ (12,920,265) | \$ 5,395,797 | \$ - | \$ 4,067,561,658 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,387,647 | 833 | - | - | - | 1,388,480 |
| 332 Reservoirs, Dams & Waterways | 10,829,865 | 429,783 | (193,367) | - | - | 11,066,280 |
| 333 Water Wheels, Turbines & Generators | 10,057,490 | 171,881 | (73,631) | - | - | 10,155,741 |
| 334 Accessory Electric Equipment | 3,256,972 | - | - | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 30,142,914 | \$ 602,497 | \$ (266,998) | \$ - | \$ - | \$ 30,478,412 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 5,597,478 | \$ (2) | \$ (80,612) | \$ (1,985,634) | \$ - | \$ 3,531,231 |
| 340 Land & Land Rights - Other | 10,368,887 | - | (1,236) | - | - | 10,367,652 |
| 340 Wind Rights | 5,971,141 | (646) | - | 10,672,452 | - | 16,642,947 |
| 341 Structures & Improvements | 261,655,657 | 5,488,845 | (648,828) | 145,443 | - | 266,641,117 |
| 342 Fuel Holders, Producers & Accessories | 84,487,448 | 10,721,661 | (2,532,482) | (65,244,551) | - | 27,432,076 |
| 343 Prime Movers | - | - | - | 139,802,454 | - | 139,802,454 |
| 344 Generators | 2,181,657,321 | 87,939,941 | (2,747,445) | (82,324,110) | - | 2,184,525,708 |
| 345 Accessory Electric Equipment | 271,898,543 | 15,705,211 | (353,213) | (924,214) | - | 286,326,327 |
| 346 Miscellaneous Power Plant Equipment | 31,442,106 | 1,437,455 | (0) | - | - | 32,879,561 |
| 348 Energy Storage Equipment | 4,128,902 | - | - | - | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 2,857,207,483 | \$ 121,292,465 | \$ (6,363,815) | \$ 141,841 | \$ - | \$ 2,972,277,974 |
| TOTAL ELECTRIC UTILITY | \$ 13,418,812,642 | \$ 673,057,697 | \$ (77,051,011) | \$ 6,166,939 | \$ - | \$ 14,020,986,266 |

| Account Description | Beginning Balance 1/1/2018 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2018 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | 7,673,530 | 7,096,953 | - | - | - | 14,770,483 |
| 303 Computer Software 5 Year | 183,611,097 | 38,871,710 | (16,129,376) | - | - | 206,353,432 |
| 303 Computer Software 7 Year | 21,806,222 | - | (18,792,908) | - | - | 3,013,314 |
| 303 Computer Software 10 Year | 10,465,718 | - | 43,267,319 | - | - | 53,733,037 |
| 303 Computer Software 15 year | 146,490,743 | 8,232,429 | - | - | - | 154,723,172 |
| 303 Computer Software - All | - | - | - | - | - | - |
| Common Intangible Plant Total | \$ 370,147,918 | \$ 54,201,092 | \$ 8,345,036 | \$ - | \$ - | \$ 432,694,045 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,191,336 | \$ - | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 162,153,641 | 19,629,703 | (44,458) | 19,995 | - | 181,758,881 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 18,086,824 | 129,631 | - | - | - | 18,216,455 |
| 391 Office Furniture and Equipment | 25,831,314 | 1,256,499 | (327,301) | - | - | 26,760,512 |
| 391 Network Equipment | 110,539,100 | 14,963,019 | (16,899,056) | - | - | 108,603,063 |
| 392 Automobiles | 1,268,574 | 158,853 | - | - | - | 1,427,427 |
| 392 Light Trucks | 3,442,079 | 328,700 | - | - | - | 3,770,779 |
| 392 Trailers | 1,051,568 | 51,457 | (56,230) | - | - | 1,046,795 |
| 392 Heavy Trucks | 4,724,931 | 502,796 | - | - | - | 5,227,727 |
| 393 Stores Equipment | 246,162 | - | - | - | - | 246,162 |
| 394 Tools, Shop, and Garage Equipment | 4,400,251 | 552,023 | (21,290) | - | - | 4,930,984 |
| 395 Laboratory Equipment | - | - | - | - | - | - |
| 396 Power Operated Equipment | 673,676 | - | (14,690) | - | - | 658,987 |
| 397 Comm. & Telecomm. Equipment | 715,864 | - | (567,014) | - | - | 148,850 |
| 397 Communication Equipment - Two Way | 76,870 | - | - | - | - | 76,870 |
| 397 Communication Equipment - Smart Grid | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | 456,153 | - | (220,544) | - | - | 235,608 |
| Common General Plant Total | \$ 339,863,914 | \$ 37,572,680 | \$ (18,150,582) | \$ 19,995 | \$ - | \$ 359,306,007 |
| TOTAL COMMON UTILITY | \$ 710,011,832 | \$ 91,773,772 | \$ (9,805,547) | \$ 19,995 | \$ - | \$ 792,000,053 |
| TOTAL - ALL UTILITIES | \$ 14,128,824,474 | \$ 764,831,469 | \$ (86,856,558) | \$ 6,186,934 | \$ - | \$ 14,812,986,319 |

Note: 322 Reactor Plant Equipment and 353 Station Equipment exclude amounts in FERC 105 - Plant Held for Future Use

| Account Description | Beginning Balance 1/1/2019 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|----------------------|-----------------------|-----------------------|-------------------|------------------------------|
| ELECTRIC INTANGIBLE | | | | | | |
| 302 Franchise and Consents | \$ 263,307 | \$ - | \$ - | \$ - | \$ - | \$ 263,307 |
| 303 Computer Software 3 Year | 201,839 | - | - | - | - | 201,839 |
| 303 Computer Software 5 Year | 138,627,032 | 9,621,837 | (4,395,343) | - | - | 143,853,526 |
| 303 Computer Software 7 Year | - | - | - | - | - | - |
| Electric Intangible Plant Total | \$ 139,092,177 | \$ 9,621,837 | \$ (4,395,343) | \$ - | \$ - | \$ 144,318,672 |
| ELECTRIC TRANSMISSION | | | | | | |
| 350 Land - Fee | \$ 22,910,512 | \$ 1,122,348 | \$ - | \$ 46,353 | \$ - | \$ 24,079,212 |
| 350 Land - Other | 132,480,180 | 8,855,193 | - | (1,174) | - | 141,334,199 |
| 352 Structures and Improvements | 116,971,979 | 6,999,774 | (164,469) | 2,059,336 | - | 125,866,620 |
| 353 Station Equipment | 1,252,054,232 | 36,091,019 | (6,069,396) | 472,749 | - | 1,282,548,604 |
| 354 Towers and Fixtures | 118,142,295 | (21,127) | - | (98,889) | - | 118,022,279 |
| 355 Poles and Fixtures | 1,399,709,340 | 42,623,082 | (1,364,944) | 56,834 | - | 1,441,024,312 |
| 356 Overhead Conductors and Devices | 593,553,686 | 2,645,884 | (630,832) | 32,203 | - | 595,600,941 |
| 357 Underground Conduit | 28,941,147 | 942,259 | - | - | - | 29,883,406 |
| 358 Underground Conductor and Devices | 37,316,110 | (330,140) | - | - | - | 36,985,970 |
| Electric Transmission Plant Total | \$ 3,702,079,481 | \$ 98,928,291 | \$ (8,229,640) | \$ 2,567,412 | \$ - | \$ 3,795,345,544 |
| ELECTRIC DISTRIBUTION (ND ONLY) | | | | | | |
| 360 Land - Fee | \$ 614,755 | \$ - | \$ - | \$ (45,179) | \$ - | \$ 569,576 |
| 361 Structures and Improvements | 1,217,233 | 418,468 | - | (546,301) | - | 1,089,400 |
| 362 Station Equipment | 27,761,166 | 7,593,330 | (41,307) | (850,166) | - | 34,463,023 |
| 364 Poles, Towers, and Fixtures | 15,986,420 | 1,315,367 | (59,718) | - | - | 17,242,070 |
| 365 Overhead Conductors and Devices | 21,150,733 | 1,711,124 | (288,260) | - | - | 22,573,598 |
| 366 Underground Conduit | 7,223,604 | 100,892 | (5,446) | - | - | 7,319,050 |
| 367 Underground Conductor and Devices | 63,826,662 | 2,803,700 | (174,495) | - | - | 66,455,866 |
| 368 Line Transformers | 25,723,546 | 1,214,119 | (464,975) | - | - | 26,472,691 |
| 368 Line Capacitors | 774,860 | 0 | (7,773) | - | - | 767,086 |
| 369 Overhead Services | 5,558,832 | 90,635 | (4,455) | - | - | 5,645,012 |
| 369 Underground Services | 8,843,421 | 551,596 | (10,023) | - | - | 9,384,994 |
| 370 Meters | 7,303,060 | 120,797 | (177,612) | - | - | 7,246,245 |
| 370 Meters - Old | - | - | - | - | - | - |
| 373 Street Lighting and Signal Systems | 3,121,121 | 125,397 | (40,471) | - | - | 3,206,047 |
| Electric Distribution Plant Total (ND Only) | \$ 189,105,413 | \$ 16,045,426 | \$ (1,274,536) | \$ (1,441,646) | \$ - | \$ 202,434,657 |

| Account Description | Beginning Balance 1/1/2019 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|---|-------------------------------|----------------------|------------------------|-----------------------|-------------------|------------------------------|
| ELECTRIC GENERAL | | | | | | |
| 389 Land - Fee | \$ 4,483,437 | \$ - | \$ - | \$ - | \$ - | \$ 4,483,437 |
| 389 Land - Other | 665 | - | - | - | - | 665 |
| 390 Structures and Improvements | 73,643,342 | 3,109,818 | (1,654,214) | (2,128,434) | - | 72,970,511 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 1,068,418 | 7,015 | - | - | - | 1,075,433 |
| 391 Office Furniture and Equipment | 30,309,543 | 1,802,753 | - | - | - | 32,112,296 |
| 391 Network Equipment | 34,140,160 | 14,447,099 | - | - | - | 48,587,258 |
| 392 Automobiles | 5,683,523 | 699,986 | - | - | - | 6,383,510 |
| 392 Light Trucks | 34,158,386 | 904,465 | - | - | - | 35,062,851 |
| 392 Trailers | 20,736,992 | 1,361,619 | - | - | - | 22,098,610 |
| 392 Heavy Trucks | 114,003,804 | 2,636,038 | - | - | - | 116,639,842 |
| 393 Stores Equipment | 1,631,738 | - | - | - | - | 1,631,738 |
| 394 Tools, Shop, and Garage Equipment | 98,586,469 | 7,273,710 | (2,721,004) | 8,920 | - | 103,148,094 |
| 395 Laboratory Equipment | 3,144,428 | - | (159,528) | - | - | 2,984,900 |
| 396 Power Operated Equipment | 50,759,545 | 1,226,512 | - | - | - | 51,986,057 |
| 397 General Communication Equipment | 17,374,702 | 65,175 | 5,835 | - | - | 17,445,712 |
| 397 Communication Equipment - Two Way | 48,652,448 | 9,315,052 | - | 441,889 | - | 58,409,389 |
| 397 Comm. & Telecomm. Equipment - AES | 7,095,870 | (24,144) | - | - | - | 7,071,726 |
| 397 Comm. & Telecomm. Equipment - EMS | 44,906,377 | (3,231,684) | - | - | - | 41,674,693 |
| 398 Miscellaneous Equipment | 3,361,752 | 257,860 | - | - | - | 3,619,613 |
| Electric General Plant Total | \$ 593,741,596 | \$ 39,851,275 | \$ (4,528,911) | \$ (1,677,626) | \$ - | \$ 627,386,334 |
| ELECTRIC STEAM PRODUCTION | | | | | | |
| 310 Land & Land Rights - Fee | \$ 8,554,373 | \$ - | \$ (35,179) | \$ - | \$ - | \$ 8,519,194 |
| 310 Land & Land Rights - Other | 8,024 | - | - | - | - | 8,024 |
| 311 Structures & Improvements | 291,941,494 | 1,317,811 | (566,545) | (783,616) | - | 291,909,144 |
| 312 Boiler Plant Equipment | 1,460,731,771 | 14,494,153 | (10,197,440) | (118,327) | - | 1,464,910,157 |
| 314 Turbogenerator Units | 324,461,502 | (3,951,899) | (1,472,027) | (68,159) | - | 318,969,418 |
| 314 Turbogenerator Units - Sherco 3 HFU | - | - | - | - | - | - |
| 315 Accessory Electric Equipment | 187,064,696 | 1,588,314 | (912,219) | - | - | 187,740,791 |
| 315 Accessory Electric Equipment - Sherco 3 HFU | - | - | - | - | - | - |
| 316 Miscellaneous Power Plant Equipment | 53,887,695 | 186,592 | (8,525) | - | - | 54,065,763 |
| Electric Steam Production Plant Total | \$ 2,326,649,555 | \$ 13,634,972 | \$ (13,191,935) | \$ (970,101) | \$ - | \$ 2,326,122,491 |

| Account Description | Beginning Balance 1/1/2019 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|-----------------------|------------------------|---------------------|-------------------|------------------------------|
| ELECTRIC NUCLEAR PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 247,161,045 | \$ 4,071,774 | \$ - | \$ - | \$ - | \$ 251,232,819 |
| 320 Land & Land Rights - Fee | 1,760,634 | - | - | - | - | 1,760,634 |
| 320 Land and Land Rights - Other | 1,729 | - | - | - | - | 1,729 |
| 321 Structures & Improvements | 588,287,575 | 3,289,706 | (11,876,346) | 357,914 | - | 580,058,850 |
| 322 Reactor Plant Equipment | 1,863,174,292 | 50,576,606 | (5,095,394) | - | - | 1,908,655,504 |
| 323 Turbogenerator Units | 621,418,893 | 13,709,657 | (1,313,060) | - | - | 633,815,490 |
| 324 Accessory Electric Equipment | 539,132,640 | 15,928,597 | (1,131,564) | - | - | 553,929,673 |
| 325 Miscellaneous Power Plant Equipment | 206,624,850 | 2,446,280 | (1,584,192) | 146,945 | - | 207,633,882 |
| Electric Nuclear Production Plant Total | \$ 4,067,561,658 | \$ 90,022,621 | \$ (21,000,557) | \$ 504,859 | \$ - | \$ 4,137,088,581 |
| ELECTRIC HYDRO PRODUCTION | | | | | | |
| 302 Franchises & Consents | \$ 2,857,039 | \$ - | \$ - | \$ - | \$ - | \$ 2,857,039 |
| 330 Land & Land Rights - Fee | 292,863 | - | - | - | - | 292,863 |
| 330 Land & Land Rights - Other | 1,400,213 | - | - | - | - | 1,400,213 |
| 331 Structures & Improvements | 1,388,480 | - | - | 57,124 | - | 1,445,604 |
| 332 Reservoirs, Dams & Waterways | 11,066,280 | 293 | - | - | - | 11,066,573 |
| 333 Water Wheels, Turbines & Generators | 10,155,741 | 21,326 | - | - | - | 10,177,067 |
| 334 Accessory Electric Equipment | 3,256,972 | - | - | - | - | 3,256,972 |
| 335 Miscellaneous Power Plant Equipment | 60,824 | - | - | - | - | 60,824 |
| Electric Hydro Production Plant Total | \$ 30,478,412 | \$ 21,619 | \$ - | \$ 57,124 | \$ - | \$ 30,557,156 |
| ELECTRIC OTHER PRODUCTION | | | | | | |
| 340 Land & Land Rights - Fee | \$ 3,531,231 | \$ 1,105,334 | \$ - | \$ - | \$ - | \$ 4,636,565 |
| 340 Land & Land Rights - Other | 10,367,652 | - | - | - | - | 10,367,652 |
| 340 Wind Rights | 16,642,947 | 146,853 | - | - | - | 16,789,800 |
| 341 Structures & Improvements | 266,641,117 | 66,938,771 | (65,969) | 817,630 | - | 334,331,548 |
| 342 Fuel Holders, Producers & Accessories | 27,432,076 | 361,734 | (684,738) | - | - | 27,109,072 |
| 343 Prime Movers | 139,802,454 | 652,252 | - | - | - | 140,454,706 |
| 344 Generators | 2,184,525,708 | 346,157,659 | (11,429,551) | 186,485 | - | 2,519,440,301 |
| 345 Accessory Electric Equipment | 286,326,327 | 11,916,587 | (2,626,774) | - | - | 295,616,140 |
| 346 Miscellaneous Power Plant Equipment | 32,879,561 | 23,919 | - | - | - | 32,903,480 |
| 348 Energy Storage Equipment | 4,128,902 | - | - | - | - | 4,128,902 |
| Electric Other Production Plant Total | \$ 2,972,277,974 | \$ 427,303,109 | \$ (14,807,032) | \$ 1,004,115 | \$ - | \$ 3,385,778,166 |
| TOTAL ELECTRIC UTILITY | \$ 14,020,986,266 | \$ 695,429,150 | \$ (67,427,953) | \$ 44,137 | \$ - | \$ 14,649,031,600 |

| Account Description | Beginning Balance 1/1/2019 | Additions | Retirements | Transfers | Adjustments/Other | Ending Balance 12/31/2019 |
|--|-------------------------------|-----------------------|------------------------|-----------------------|-------------------|------------------------------|
| COMMON INTANGIBLE | | | | | | |
| 301 Intangible Organization Costs | \$ 100,608 | \$ - | \$ - | \$ - | \$ - | \$ 100,608 |
| 302 Franchise and Consents | - | - | - | - | - | - |
| 303 Computer Software 3 Year | 14,770,483 | 2,505,698 | - | (62,381) | - | 17,213,800 |
| 303 Computer Software 5 Year | 206,353,432 | 36,901,019 | (14,668,656) | 62,381 | - | 228,648,176 |
| 303 Computer Software 7 Year | 3,013,314 | - | (157,657) | - | - | 2,855,656 |
| 303 Computer Software 10 Year | 53,733,037 | 1,110,368 | - | - | - | 54,843,405 |
| 303 Computer Software 15 year | 154,723,172 | 11,106,757 | - | - | - | 165,829,929 |
| 303 Computer Software - All | - | - | - | - | - | - |
| Common Intangible Plant Total | \$ 432,694,045 | \$ 51,623,842 | \$ (14,826,313) | \$ - | \$ - | \$ 469,491,574 |
| COMMON GENERAL | | | | | | |
| 389 Land - Fee | \$ 6,191,336 | \$ - | \$ - | \$ - | \$ - | \$ 6,191,336 |
| 389 Land - Other | 5,572 | - | - | - | - | 5,572 |
| 390 Structures and Improvements | 181,758,881 | 11,186,176 | (4,375,946) | (668,904) | - | 187,900,208 |
| Structures and Improvements - Leasehold | | | | | | |
| 390 Improvements | 18,216,455 | - | (122,125) | - | - | 18,094,329 |
| 391 Office Furniture and Equipment | 26,760,512 | 4,341,242 | (1,424,126) | (1,525,701) | - | 28,151,926 |
| 391 Network Equipment | 108,603,063 | 41,195,934 | (4,110,531) | - | - | 145,688,465 |
| 392 Automobiles | 1,427,427 | 54,757 | - | - | - | 1,482,184 |
| 392 Light Trucks | 3,770,779 | 226,895 | - | - | - | 3,997,674 |
| 392 Trailers | 1,046,795 | 66,065 | - | - | - | 1,112,860 |
| 392 Heavy Trucks | 5,227,727 | 697,606 | - | - | - | 5,925,333 |
| 393 Stores Equipment | 246,162 | - | - | - | - | 246,162 |
| 394 Tools, Shop, and Garage Equipment | 4,930,984 | (2,770) | (48,446) | 38,530 | - | 4,918,298 |
| 395 Laboratory Equipment | - | - | - | - | - | - |
| 396 Power Operated Equipment | 658,987 | 368,135 | - | - | - | 1,027,122 |
| 397 Comm. & Telecomm. Equipment | 148,850 | - | - | - | - | 148,850 |
| 397 Communication Equipment - Two Way | 76,870 | - | - | - | - | 76,870 |
| 397 Communication Equipment - Smart Grid | - | 529,266 | - | - | - | 529,266 |
| 398 Miscellaneous Equipment | 235,608 | - | - | - | - | 235,608 |
| Common General Plant Total | \$ 359,306,007 | \$ 58,663,306 | \$ (10,081,174) | \$ (2,156,074) | \$ - | \$ 405,732,065 |
| TOTAL COMMON UTILITY | \$ 792,000,053 | \$ 110,287,148 | \$ (24,907,488) | \$ (2,156,074) | \$ - | \$ 875,223,638 |
| TOTAL - ALL UTILITIES | \$ 14,812,986,319 | \$ 805,716,298 | \$ (92,335,441) | \$ (2,111,937) | \$ - | \$ 15,524,255,238 |

Note: 322 Reactor Plant Equipment excludes amounts in FERC 105 - Plant Held for Future Use

| Functional Class | Balance from Schedule 2a | Reconciling items (see notes below) | Note | Beginning Balance 1/1/2020 | Additions | Retirements | Transfers & Adjustments | Ending Balance 12/31/2020 | Additions | Retirements | Transfers & Adjustments | Ending Balance 12/31/2021 |
|---|-----------------------------|--|---------|-------------------------------|----------------------|---------------------|----------------------------|------------------------------|----------------------|---------------------|----------------------------|------------------------------|
| Electric Intangible Plant | 144,318,672 | 254,089,857 | (1) | 398,408,529 | 15,775,071 | - | - | 414,183,600 | 37,114,828 | - | - | 451,298,428 |
| Electric Transmission Plant | 3,795,345,544 | 532,495 | (2) | 3,795,878,039 | 177,763,329 | (11,654,781) | 40,229 | 3,962,026,816 | 270,875,823 | (11,296,177) | - | 4,221,606,463 |
| Electric Distribution Plant - ND located only | 202,434,657 | - | | 202,434,657 | 9,987,807 | (1,870,523) | - | 210,551,941 | 5,960,425 | (1,688,977) | - | 214,823,389 |
| Electric General Plant | 627,386,334 | - | | 627,386,334 | 47,737,590 | (5,501,478) | (10,395) | 669,612,052 | 120,310,127 | - | - | 789,922,179 |
| Electric Steam Production Plant | 2,326,122,491 | - | | 2,326,122,491 | 28,706,883 | (8,029,568) | (1,614) | 2,346,798,192 | 46,474,180 | - | - | 2,393,272,372 |
| Electric Nuclear Production Plant | 4,137,088,581 | (237,671,880) | (1) (3) | 3,899,416,701 | 67,005,629 | (16,437,959) | - | 3,949,984,371 | 81,386,327 | - | - | 4,031,370,698 |
| Electric Hydro Production Plant | 30,557,156 | (2,857,039) | (1) | 27,700,117 | 90,263 | (20,492) | - | 27,769,889 | 135,306 | - | - | 27,905,195 |
| Electric Other Production Plant | 3,385,778,166 | - | | 3,385,778,166 | 1,269,350,179 | (20,906,371) | (28,221) | 4,634,193,753 | 769,942,588 | - | - | 5,404,136,341 |
| Total Electric Utility | 14,649,031,600 | 14,093,434 | | 14,663,125,034 | 1,616,416,752 | (64,421,172) | - | 16,215,120,614 | 1,332,199,603 | (12,985,154) | - | 17,534,335,062 |
| Common Intangible Plant | 469,491,574 | - | | 469,491,574 | 65,568,429 | - | - | 535,060,002 | 71,378,484 | - | - | 606,438,486 |
| Common General Plant | 405,732,065 | - | | 405,732,065 | 55,445,477 | (1,085,760) | - | 460,091,781 | 54,003,199 | - | - | 514,094,980 |
| Total Common Utility | 875,223,638 | - | | 875,223,638 | 121,013,905 | (1,085,760) | - | 995,151,783 | 125,381,683 | - | - | 1,120,533,467 |
| Total | 15,524,255,238 | 14,093,434 | | 15,538,348,672 | 1,737,430,657 | (65,506,933) | - | 17,210,272,397 | 1,457,581,286 | (12,985,154) | - | 18,654,868,529 |

Note 1. FERC 302 Franchises and Consents is in the Electric Intangible function. A large portion of FERC 302 relates to the nuclear and hydro operating licenses. Therefore on Schedule 2a, they were presented under each of those functions to capture the underlying driver of the account. In the forecast, all of FERC 302 falls under Electric Intangible.

Note 2. FERC 114 Acquisition Adjustment was excluded in Schedule 2a. The 2019 ending balance of this account in Electric Transmission was \$0.5 million.

Note 3. Plant Held for Future Use in FERC 105 was excluded in Schedule 2a. The 2019 ending balance of this account in Electric Nuclear Production was \$13.6 million.

| Witness | Major Category | Functional Class | 2020 | | 2020 Total | 2021 | | 2021 Total | Grand Total |
|--------------------|-----------------------------|-----------------------------------|-------------------|------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | | | CWIP spend | RWIP spend | | CWIP spend | RWIP spend | | |
| Bloch | AGIS | Common General Plant | 570,674 | | 570,674 | 350,000 | | 350,000 | 920,674 |
| Bloch | AGIS | Electric General Plant | 8,355,606 | - | 8,355,606 | 11,637,115 | - | 11,637,115 | 19,992,720 |
| Bloch | AGIS | Electric Intangible Plant | 9,764,905 | - | 9,764,905 | 12,614,034 | - | 12,614,034 | 22,378,939 |
| Bloch | ASSET HEALTH & RELIABILITY | Electric Distribution Plant | 2,826,761 | 220,821 | 3,047,583 | 4,855,572 | 329,435 | 5,185,007 | 8,232,590 |
| Bloch | ASSET HEALTH & RELIABILITY | Electric General Plant | | | | 418,500 | 31,500 | 450,000 | 450,000 |
| Bloch | CAPACITY | Electric Distribution Plant | (92,623) | 827,489 | 734,866 | 106,500 | 3,500 | 110,000 | 844,866 |
| Bloch | FLEET, TOOLS & COMM | Common General Plant | 246,793 | 1,102 | 247,895 | 420,718 | 3,282 | 424,000 | 671,895 |
| Bloch | FLEET, TOOLS & COMM | Electric Distribution Plant | 201,213 | 40,652 | 241,865 | 138,000 | | 138,000 | 379,865 |
| Bloch | FLEET, TOOLS & COMM | Electric General Plant | 3,284,247 | 240,084 | 3,524,331 | 10,912,998 | 88,946 | 11,001,944 | 14,526,275 |
| Bloch | MANDATES | Electric Distribution Plant | 363,480 | 49,832 | 413,312 | 1,167,250 | 153,750 | 1,321,000 | 1,734,312 |
| Bloch | NEW BUSINESS | Electric Distribution Plant | 906,121 | 123,555 | 1,029,676 | 2,234,800 | 31,200 | 2,266,000 | 3,295,676 |
| Bloch | SOLAR | Electric General Plant | (127,613) | | (127,613) | | | | (127,613) |
| Bloch Total | | | 26,299,563 | 1,503,535 | 27,803,098 | 44,855,487 | 641,613 | 45,497,100 | 73,300,198 |
| Moeller | Aging Technology | Common General Plant | 24,670,695 | (10,936) | 24,659,759 | 13,891,096 | | 13,891,096 | 38,550,855 |
| Moeller | Aging Technology | Common Intangible Plant | 42,673,039 | | 42,673,039 | 29,844,721 | | 29,844,721 | 72,517,760 |
| Moeller | Aging Technology | Electric General Plant | 12,736,919 | | 12,736,919 | 13,550,551 | | 13,550,551 | 26,287,470 |
| Moeller | Aging Technology | Electric Intangible Plant | 8,335,556 | | 8,335,556 | 6,627,948 | | 6,627,948 | 14,963,504 |
| Moeller | ASSET RENEWAL | Electric General Plant | 1,805,192 | 57,325 | 1,862,518 | 3,602,628 | 8,820 | 3,611,448 | 5,473,966 |
| Moeller | ASSET RENEWAL | Electric Transmission Plant | 50,186,981 | 5,495,846 | 55,682,827 | 60,808,608 | 806,892 | 61,615,500 | 117,298,327 |
| Moeller | BASE | Electric General Plant | 135,114 | | 135,114 | 805,002 | 991 | 805,993 | 941,107 |
| Moeller | BASE | Electric Hydro Production Plant | 23,835 | 129 | 23,964 | 20,004 | | 20,004 | 43,968 |
| Moeller | BASE | Electric Other Production Plant | 19,681 | 60,401 | 80,082 | | | | 80,082 |
| Moeller | BASE | Electric Steam Production Plant | 2,031 | (2,566) | (535) | | 480,850 | 480,850 | 480,315 |
| Moeller | COAL | Electric General Plant | 132,291 | | 132,291 | 350,000 | | 350,000 | 482,291 |
| Moeller | COAL | Electric Steam Production Plant | 29,881,831 | 3,361,672 | 33,243,503 | 27,044,077 | 1,920,304 | 28,964,381 | 62,207,884 |
| Moeller | COMM INFRASTRUCTURE | Electric General Plant | 387,721 | (10,510) | 377,211 | 5,210,000 | 80,000 | 5,290,000 | 5,667,211 |
| Moeller | COMM INFRASTRUCTURE | Electric Transmission Plant | 291,644 | (49,588) | 242,055 | | | | 242,055 |
| Moeller | Customer | Common Intangible Plant | 16,959,312 | - | 16,959,312 | 20,317,194 | - | 20,317,194 | 37,276,506 |
| Moeller | Cyber Security | Common General Plant | 700,766 | | 700,766 | 787,010 | | 787,010 | 1,487,776 |
| Moeller | Cyber Security | Common Intangible Plant | 7,173,085 | | 7,173,085 | 1,751,413 | | 1,751,413 | 8,924,498 |
| Moeller | Cyber Security | Electric Intangible Plant | 307,500 | | 307,500 | | | | 307,500 |
| Moeller | DRY CASK STORAGE | Electric Intangible Plant | | | | 120,000 | | 120,000 | 120,000 |
| Moeller | DRY CASK STORAGE | Electric Nuclear Production Plant | 17,750,989 | | 17,750,989 | 18,296,690 | | 18,296,690 | 36,047,679 |
| Moeller | Emergent Demand | Common General Plant | (4,289,988) | | (4,289,988) | (5,965,296) | | (5,965,296) | (10,255,284) |
| Moeller | Emergent Demand | Common Intangible Plant | (17,703,168) | | (17,703,168) | 14,835,601 | | 14,835,601 | (2,867,567) |
| Moeller | Enhance Capabilities | Common General Plant | 7,494,472 | (712) | 7,494,760 | 6,833,635 | | 6,833,635 | 14,328,395 |
| Moeller | Enhance Capabilities | Common Intangible Plant | 10,336,045 | | 10,336,045 | 5,357,208 | | 5,357,208 | 15,693,253 |
| Moeller | Enhance Capabilities | Electric General Plant | 2,597,962 | | 2,597,962 | 284,684 | | 284,684 | 2,882,646 |
| Moeller | Enhance Capabilities | Electric Intangible Plant | 2,466,917 | | 2,466,917 | 1,645,033 | | 1,645,033 | 4,111,950 |
| Moeller | ENTERPRISE SECURITY CAPITAL | Common General Plant | 19,577 | 940 | 20,517 | 12,001,192 | | 12,001,192 | 12,021,709 |
| Moeller | ENTERPRISE SECURITY CAPITAL | Electric General Plant | 116,779 | | 116,779 | | | | 116,779 |

| Witness | Major Category | Functional Class | 2020 | | 2020 Total | 2021 | | 2021 Total | Grand Total |
|----------------------|------------------------------------|-----------------------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|
| | | | CWIP spend | RWIP spend | | CWIP spend | RWIP spend | | |
| Moeller | FACILITIES & OTHER | Electric General Plant | 309,754 | | 309,754 | 100,000 | | 100,000 | 409,754 |
| Moeller | FACILITIES & OTHER | Electric Intangible Plant | 1,500,000 | | 1,500,000 | 711,000 | | 711,000 | 2,211,000 |
| Moeller | FACILITIES & OTHER | Electric Nuclear Production Plant | 1,429,759 | 260,360 | 1,690,119 | 1,505,592 | 100,000 | 1,605,592 | 3,295,711 |
| Moeller | Fleet Asset Additions | Common General Plant | | | | 735,000 | | 735,000 | 735,000 |
| Moeller | Fleet Asset Additions | Electric General Plant | | | | 35,000 | | 35,000 | 35,000 |
| Moeller | Fueling Depots and Garage Tools | Common General Plant | 1,135,211 | | 1,135,211 | 750,000 | | 750,000 | 1,885,211 |
| Moeller | HYDRO | Electric General Plant | | | | 15,000 | | 15,000 | 15,000 |
| Moeller | HYDRO | Electric Hydro Production Plant | 130,628 | 8,644 | 139,272 | 70,000 | 10,000 | 80,000 | 219,272 |
| Moeller | IMPROVEMENTS | Electric General Plant | 5,756,201 | 20,031 | 5,776,233 | 6,369,212 | | 6,369,212 | 12,145,445 |
| Moeller | IMPROVEMENTS | Electric Intangible Plant | 5,136,071 | | 5,136,071 | 3,896,246 | | 3,896,246 | 9,032,318 |
| Moeller | IMPROVEMENTS | Electric Nuclear Production Plant | 12,245,339 | 116,251 | 12,361,591 | 10,900,117 | | 10,900,117 | 23,261,708 |
| Moeller | INTERCONNECTION | Electric General Plant | (19,105) | | (29,534) | (48,639) | | (48,639) | (48,639) |
| Moeller | INTERCONNECTION | Electric Transmission Plant | 20,195,197 | (696,918) | 19,498,279 | 40,249,898 | 717,700 | 40,967,598 | 60,465,877 |
| Moeller | INTERMEDIATE | Electric General Plant | 3,722 | | 3,722 | 150,315 | | 150,315 | 154,037 |
| Moeller | INTERMEDIATE | Electric Other Production Plant | 22,376,845 | 1,946,597 | 24,323,441 | 28,976,504 | 1,593,771 | 30,570,275 | 54,893,716 |
| Moeller | INTERMEDIATE | Electric Steam Production Plant | 39,987 | 6,492 | 46,479 | | | | 46,479 |
| Moeller | MAJOR | Electric Other Production Plant | 2,188,473 | 2,297,935 | 4,486,408 | 2,490,000 | | 2,490,000 | 6,976,408 |
| Moeller | MAJOR | Electric Steam Production Plant | | 1,612,504 | 1,612,504 | | 6,776,842 | 6,776,842 | 8,389,346 |
| Moeller | MANDATED COMPLIANCE | Electric Intangible Plant | 1,000,000 | | 1,000,000 | 2,700,000 | | 2,700,000 | 3,700,000 |
| Moeller | MANDATED COMPLIANCE | Electric Nuclear Production Plant | 6,414,319 | 51,658 | 6,465,977 | 3,539,335 | 50,000 | 3,589,335 | 10,055,312 |
| Moeller | NUCLEAR FUEL | Nuclear Fuel | 54,646,337 | | 54,646,337 | 104,406,565 | | 104,406,565 | 159,052,902 |
| Moeller | OTHER | Common General Plant | 5,023,696 | 105,289 | 5,128,985 | 4,811,501 | - | 4,811,501 | 9,940,486 |
| Moeller | OTHER | Common Intangible Plant | 2,458,957 | | 2,458,957 | | | | 2,458,957 |
| Moeller | OTHER | Electric General Plant | (733) | (18,613) | (19,346) | | | | (19,346) |
| Moeller | OTHER | Electric Intangible Plant | (1,759,770) | | (1,759,770) | | | | (1,759,770) |
| Moeller | OTHER | Electric Other Production Plant | (148) | | (148) | | | | (148) |
| Moeller | OTHER | Electric Transmission Plant | 1,074,111 | 400,443 | 1,474,554 | | | | 1,474,554 |
| Moeller | PEAKING & RDF | Electric General Plant | 60,736 | | 60,736 | 404,997 | | 404,997 | 465,733 |
| Moeller | PEAKING & RDF | Electric Other Production Plant | 4,428,766 | (62,370) | 4,366,395 | 14,820,698 | 293,871 | 15,114,569 | 19,480,964 |
| Moeller | PEAKING & RDF | Electric Steam Production Plant | 2,817,439 | 359,963 | 3,177,402 | 8,196,279 | 599,314 | 8,795,593 | 11,972,995 |
| Moeller | PROPERTY SERVICES CAPITAL | Common General Plant | 14,815,570 | (179,329) | 14,636,242 | 34,040,697 | 239,281 | 34,279,978 | 48,916,220 |
| Moeller | PROPERTY SERVICES CAPITAL | Electric General Plant | 1,446,212 | (59,008) | 1,387,203 | 6,881,036 | 412,973 | 7,294,009 | 8,681,212 |
| Moeller | REGIONAL EXPANSION | Electric Transmission Plant | 38,895,275 | 202,408 | 39,097,683 | 40,927,282 | 126,724 | 41,054,006 | 80,151,689 |
| Moeller | RELIABILITY | Electric General Plant | 1,699,734 | 8,656 | 1,708,390 | 3,733,348 | 10,900 | 3,744,248 | 5,452,638 |
| Moeller | RELIABILITY | Electric Nuclear Production Plant | 35,094,032 | 1,039,746 | 36,133,778 | 64,977,448 | 2,423,221 | 67,400,669 | 103,534,447 |
| Moeller | RELIABILITY REQUIREMENT | Electric General Plant | 531,195 | 5,399 | 536,594 | 776,260 | 2,240 | 778,500 | 1,315,094 |
| Moeller | RELIABILITY REQUIREMENT | Electric Intangible Plant | 11 | | 11 | | | | 11 |
| Moeller | RELIABILITY REQUIREMENT | Electric Transmission Plant | 18,399,792 | 653,633 | 19,053,425 | 47,446,240 | 276,728 | 47,722,968 | 66,776,393 |
| Moeller | Replacements, Additions, & Repairs | Common General Plant | 1,071,613 | (11,193) | 1,060,420 | 1,650,000 | | 1,650,000 | 2,710,420 |
| Moeller | Replacements, Additions, & Repairs | Electric General Plant | 14,960,495 | (542,001) | 14,418,494 | 18,850,000 | | 18,850,000 | 33,268,494 |
| Moeller | SECURITY/RESILIENCE | Electric General Plant | 1,656,934 | | 1,656,934 | 7,142,013 | | 7,142,013 | 8,798,947 |
| Moeller | SECURITY/RESILIENCE | Electric Intangible Plant | | | | 93,000 | | 93,000 | 93,000 |
| Moeller | SECURITY/RESILIENCE | Electric Transmission Plant | 5,034,493 | 291,206 | 5,325,699 | 24,591,102 | 171,500 | 24,762,602 | 30,088,301 |
| Moeller | WIND | Electric General Plant | 163,806 | | 163,806 | 400,438 | | 400,438 | 564,244 |
| Moeller | WIND | Electric Intangible Plant | 115,254 | | 115,254 | 1,707,048 | | 1,707,048 | 1,822,302 |
| Moeller | WIND | Electric Other Production Plant | 1,109,261,955 | 485,922 | 1,109,747,877 | 296,220,611 | 894,740 | 297,115,351 | 1,406,863,228 |
| Moeller | WIND | Electric Transmission Plant | 47,723,193 | 129,266 | 47,852,459 | 10,949,943 | | 10,949,943 | 58,802,402 |
| Moeller Total | | | 1,654,675,134 | 17,305,436 | 1,671,980,570 | 1,034,238,724 | 17,997,662 | 1,052,236,386 | 2,724,216,956 |
| Grand Total | | | 1,680,974,698 | 18,808,971 | 1,699,783,668 | 1,079,094,210 | 18,639,275 | 1,097,733,486 | 2,797,517,154 |

Northern States Power Company
Expenditures and Additions by Witness
Capital Additions Summary

| Witness | Major Category | Functional Class | 2020 | 2021 | Total |
|--------------------|-----------------------------|-----------------------------------|-------------------|-------------------|--------------------|
| Bloch | AGIS | Common General Plant | 939,863 | 1,750,732 | 2,690,595 |
| Bloch | AGIS | Electric General Plant | 1,334,235 | 57,072,620 | 58,406,855 |
| Bloch | AGIS | Electric Intangible Plant | 10,252,056 | 12,762,047 | 23,014,104 |
| Bloch | ASSET HEALTH & RELIABILITY | Electric Distribution Plant | 5,469,360 | 3,202,114 | 8,671,474 |
| Bloch | ASSET HEALTH & RELIABILITY | Electric General Plant | | 369,920 | 369,920 |
| Bloch | CAPACITY | Electric Distribution Plant | 2,935,199 | 106,096 | 3,041,295 |
| Bloch | FLEET, TOOLS & COMM | Common General Plant | 1,002,178 | 486,862 | 1,489,040 |
| Bloch | FLEET, TOOLS & COMM | Electric Distribution Plant | 171,504 | 150,875 | 322,379 |
| Bloch | FLEET, TOOLS & COMM | Electric General Plant | 4,998,077 | 9,682,393 | 14,680,470 |
| Bloch | MANDATES | Electric Distribution Plant | 528,611 | 321,842 | 850,453 |
| Bloch | NEW BUSINESS | Electric Distribution Plant | 881,170 | 2,179,498 | 3,060,668 |
| Bloch | SOLAR | Electric General Plant | 9,045 | (196,808) | (187,762) |
| Bloch Total | | | 28,521,299 | 87,888,192 | 116,409,490 |
| Moeller | Aging Technology | Common General Plant | 31,012,144 | 16,704,945 | 47,717,088 |
| Moeller | Aging Technology | Common Intangible Plant | 25,762,257 | 47,565,909 | 73,328,165 |
| Moeller | Aging Technology | Electric General Plant | 1,509,458 | 5,076,364 | 6,585,823 |
| Moeller | Aging Technology | Electric Intangible Plant | 3,692,060 | 6,990,836 | 10,682,896 |
| Moeller | ASSET RENEWAL | Electric General Plant | 1,711,727 | 3,881,598 | 5,593,325 |
| Moeller | ASSET RENEWAL | Electric Transmission Plant | 52,947,496 | 63,711,094 | 116,658,590 |
| Moeller | BASE | Electric General Plant | 135,114 | 800,002 | 935,116 |
| Moeller | BASE | Electric Other Production Plant | 19,550 | 142 | 19,691 |
| Moeller | BASE | Electric Steam Production Plant | 2,035 | | 2,035 |
| Moeller | COAL | Electric General Plant | 137,856 | 350,000 | 487,856 |
| Moeller | COAL | Electric Steam Production Plant | 26,421,733 | 38,999,854 | 65,421,588 |
| Moeller | COMM INFRASTRUCTURE | Electric General Plant | 504,518 | 4,110,446 | 4,614,964 |
| Moeller | COMM INFRASTRUCTURE | Electric Transmission Plant | 745,830 | | 745,830 |
| Moeller | Customer | Common Intangible Plant | 19,525,662 | 19,429,842 | 38,955,504 |
| Moeller | Cyber Security | Common General Plant | 1,041,936 | 524,031 | 1,565,967 |
| Moeller | Cyber Security | Common Intangible Plant | 9,061,844 | 3,536,546 | 12,598,391 |
| Moeller | Cyber Security | Electric General Plant | 28,024 | | 28,024 |
| Moeller | Cyber Security | Electric Intangible Plant | 309,612 | | 309,612 |
| Moeller | DRY CASK STORAGE | Electric Intangible Plant | | 120,629 | 120,629 |
| Moeller | DRY CASK STORAGE | Electric Nuclear Production Plant | 11,245,710 | 13,967,179 | 25,212,889 |
| Moeller | Emergent Demand | Common General Plant | (1,274,819) | (7,476,343) | (8,751,162) |
| Moeller | Emergent Demand | Common Intangible Plant | (4,799,771) | (5,047,282) | (9,847,053) |
| Moeller | Enhance Capabilities | Common General Plant | 7,820,994 | 6,833,635 | 14,654,629 |
| Moeller | Enhance Capabilities | Common Intangible Plant | 14,975,315 | 5,847,784 | 20,823,099 |
| Moeller | Enhance Capabilities | Electric General Plant | 2,955,196 | 1,926,584 | 4,881,780 |
| Moeller | Enhance Capabilities | Electric Intangible Plant | 1,053,199 | 3,212,645 | 4,265,843 |
| Moeller | ENTERPRISE SECURITY CAPITAL | Common General Plant | 188,779 | 8,717,051 | 8,905,830 |
| Moeller | ENTERPRISE SECURITY CAPITAL | Electric General Plant | 688,434 | 182,065 | 870,499 |

Northern States Power Company
Expenditures and Additions by Witness
Capital Additions Summary

| Witness | Major Category | Functional Class | 2020 | 2021 | Total |
|----------------------|------------------------------------|-----------------------------------|----------------------|----------------------|----------------------|
| Moeller | FACILITIES & OTHER | Electric General Plant | 309,797 | 100,000 | 409,797 |
| Moeller | FACILITIES & OTHER | Electric Intangible Plant | | 3,600,474 | 3,600,474 |
| Moeller | FACILITIES & OTHER | Electric Nuclear Production Plant | 2,336,098 | 857,460 | 3,193,558 |
| Moeller | Fleet Asset Additions | Common General Plant | | 735,000 | 735,000 |
| Moeller | Fleet Asset Additions | Electric General Plant | | 35,000 | 35,000 |
| Moeller | Fueling Depots and Garage Tools | Common General Plant | 788,883 | 823,565 | 1,612,448 |
| Moeller | HYDRO | Electric General Plant | | 15,000 | 15,000 |
| Moeller | HYDRO | Electric Hydro Production Plant | 90,263 | 135,306 | 225,569 |
| Moeller | IMPROVEMENTS | Electric General Plant | 5,551,750 | 6,451,470 | 12,003,220 |
| Moeller | IMPROVEMENTS | Electric Intangible Plant | 468,133 | 9,231,911 | 9,700,043 |
| Moeller | IMPROVEMENTS | Electric Nuclear Production Plant | 18,037,292 | 1,684,842 | 19,722,134 |
| Moeller | INTERCONNECTION | Electric General Plant | (91,525) | | (91,525) |
| Moeller | INTERCONNECTION | Electric Transmission Plant | 21,358,963 | 38,991,777 | 60,350,740 |
| Moeller | INTERMEDIATE | Electric General Plant | 3,722 | 150,315 | 154,037 |
| Moeller | INTERMEDIATE | Electric Other Production Plant | 22,548,997 | 33,832,830 | 56,381,827 |
| Moeller | INTERMEDIATE | Electric Steam Production Plant | 53,674 | | 53,674 |
| Moeller | MANDATED COMPLIANCE | Electric Nuclear Production Plant | 9,416,508 | 3,615,618 | 13,032,126 |
| Moeller | NUCLEAR FUEL | Nuclear Fuel | 81,338,789 | 150,295,427 | 231,634,216 |
| Moeller | OTHER | Common General Plant | 494,700 | 8,069,101 | 8,563,800 |
| Moeller | OTHER | Common Intangible Plant | 1,043,122 | 45,684 | 1,088,806 |
| Moeller | OTHER | Electric General Plant | 28,856 | 6,291 | 35,147 |
| Moeller | PEAKING & RDF | Electric General Plant | 60,760 | 404,997 | 465,757 |
| Moeller | PEAKING & RDF | Electric Other Production Plant | 1,526,229 | 10,789,804 | 12,316,033 |
| Moeller | PEAKING & RDF | Electric Steam Production Plant | 2,243,133 | 7,474,325 | 9,717,459 |
| Moeller | PROPERTY SERVICES CAPITAL | Common General Plant | 12,409,662 | 15,189,252 | 27,598,914 |
| Moeller | PROPERTY SERVICES CAPITAL | Electric General Plant | 2,179,049 | 104,446 | 2,283,496 |
| Moeller | REGIONAL EXPANSION | Electric Transmission Plant | 2,339,410 | 74,623,503 | 76,962,914 |
| Moeller | RELIABILITY | Electric General Plant | 2,491,531 | 3,733,348 | 6,224,879 |
| Moeller | RELIABILITY | Electric Nuclear Production Plant | 25,954,635 | 61,261,227 | 87,215,862 |
| Moeller | RELIABILITY REQUIREMENT | Electric General Plant | 342,792 | 1,100,937 | 1,443,729 |
| Moeller | RELIABILITY REQUIREMENT | Electric Intangible Plant | 11 | | 11 |
| Moeller | RELIABILITY REQUIREMENT | Electric Transmission Plant | 26,200,896 | 46,678,982 | 72,879,878 |
| Moeller | Replacements, Additions, & Repairs | Common General Plant | 1,019,703 | 1,645,367 | 2,665,071 |
| Moeller | Replacements, Additions, & Repairs | Electric General Plant | 20,502,019 | 18,501,471 | 39,003,490 |
| Moeller | Safety | Common General Plant | 12 | | 12 |
| Moeller | SECURITY\RESILIENCY | Electric General Plant | 2,027,584 | 6,051,228 | 8,078,811 |
| Moeller | SECURITY\RESILIENCY | Electric Transmission Plant | 9,034,249 | 18,845,637 | 27,879,886 |
| Moeller | WIND | Electric General Plant | 311,224 | 400,438 | 711,662 |
| Moeller | WIND | Electric Intangible Plant | | 1,196,286 | 1,196,286 |
| Moeller | WIND | Electric Other Production Plant | 1,245,245,731 | 725,319,954 | 1,970,565,684 |
| Moeller | WIND | Electric Transmission Plant | 65,163,565 | 28,024,830 | 93,188,394 |
| Moeller Total | | | 1,790,252,106 | 1,519,988,663 | 3,310,240,769 |
| Grand Total | | | 1,818,773,405 | 1,607,876,854 | 3,426,650,259 |

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DISMANTLING COST STUDY

for

**Allen S. King Unit 1
Angus Anson Units 1-4
Black Dog Units 2, 3, 5 and 6
Blue Lake Units 1-4, 7 and 8
Granite City Units 1-4
Hennepin Island
High Bridge Units 1-3
Inver Hills Units 1- 6
Key City Units 1-4
Maplewood Gas Plant
Minnesota Valley Units 1-3
Red Wing Units 1 & 2
Riverside Units 7, 8, 9 and 10
Sherburne County Units 1-3
Sibley Gas Plant
Wescott Gas Plant
Wilmarth Units 1 & 2
Stations**

**Blazing Star I Wind Farm
Border Winds Project
Courtenay Wind Farm
Foxtail Wind Farm
Grand Meadow Wind Farm
Lake Benton II Wind Farm
Nobles Wind Farm
Pleasant Valley Wind Farm**



prepared for

Xcel Energy

prepared by

**TLG Services, Inc.
*An Entergy Company***

148 New Milford Road East
Bridgewater, CT

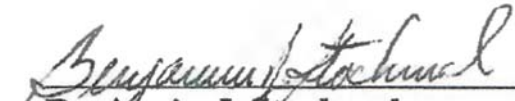
April 2020

Xcel Energy
Dismantling Cost Study

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APPROVALS


Project Engineer



Benjamin J. Stochmal

4/1/20
Date

Project Engineer



Timothy A. Arnold

4/1/2020
Date

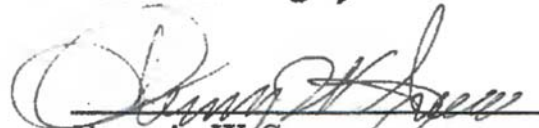
Project Manager



Roderick Knight

4/1/2020
Date

Technical Manager



Francis W. Seymore

4/1/2020
Date

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REVISION LOG

| Rev. No. | CRA No. | Date | Item Revised | Reason for Revision |
|----------|---------|------------|--------------|---------------------|
| 0 | | 04/01/2020 | | Final Issue |

ACRONYMS / DEFINITIONS

- AIF Atomic Industrial Forum
- CT Combustion Turbine
- CCGT Combined Cycle Gas Turbine
- DOC Decommissioning Operations Contractor
- DOE Department of Energy
- HRSG Heat Recovery Steam Generator
- LS Lump Sum
- Mtr Motor
- MV Medium Voltage
- Mw Megawatt
- MWe Megawatt (electric) – 2020 Net Max. Capacity (NMC) Rating
- NESP National Environmental Studies Project
- NG Natural Gas
- OSHA Occupational Safety & Health Administration
- PCB Polychlorinated Biphenyl
- RDF Refuse Derived Fuel
- TLG TLG Services, Inc.
- WTG Wind Turbine Generator

EXECUTIVE SUMMARY

This report, prepared by TLG Services, Inc. (TLG), provides estimated costs for the complete dismantling, unless otherwise specified, of the following electric generating stations, wind farms, gas storage and production plants operated by Xcel Energy (Xcel), which either owns or has a share in ownership in each of these facilities:

Generating Stations Located in Minnesota:

- Allen S. King
- Black Dog
- Blue Lake
- Granite City
- Hennepin Island
- High Bridge
- Inver Hills
- Key City
- Minnesota Valley
- Red Wing
- Riverside
- Sherburne County
- Wilmarth

Generating Station Located in South Dakota:

- Angus Anson

Gas production and storage plants (all located in Minnesota):

- Maplewood
- Sibley
- Wescott

Wind Farms Located in Minnesota:

- Blazing Star I Wind Farm
- Grand Meadow Wind Farm
- Lake Benton II Wind Farm
- Nobles Wind Farm
- Pleasant Valley Wind Farm

Wind Farms Located in North Dakota:

- Border Winds Project
- Courtenay Wind Farm
- Foxtail Wind Farm

The dismantling estimate includes the cost of removing the equipment and structures for each of the above-referenced facilities and limited restoration of the sites. The electrical switchyards are assumed to remain in place and are not included in the estimate.

The scope of the dismantling estimate includes the following significant work activities and labor, equipment, material, and waste disposal cost elements:

- Preparation of the units for safe dismantling
- Abatement of asbestos containing materials prior to dismantling (where applicable)
- Removal and disposition of all installed equipment (except where noted)
- Demolition and disposition of subsurface utilities and buildings and foundations (except where noted)
- Removal of below grade foundations (except where noted)
- Coal yard and ash pond remediation (Sherburne County, King, and Minnesota Valley)
- Limited site restoration (grading and seeding for drainage and erosion control)
- Demolition contractor's on-site management, engineering, safety, and administrative staff
- Demolition contractor's expenses, including profit, insurance, permits, and fees
- Xcel's on-site management, oversight, and security staff
- A cost credit associated with the disposition of scrap metals
- Cost contingency

The general approach in assembling the estimate was to develop an inventory of equipment and structures designated to be removed for each facility. This inventory was established using site walk-downs (including discussions with the Operations & Maintenance staff), station-provided equipment databases, and plant drawings. This inventory accounted for similarities between facilities.

The abatement, removal, demolition and restoration activity costs are estimated by applying unit cost factors (developed for each inventory item) against the inventory. Costs for project management, shared equipment and consumables, and similar types of costs are estimated on a period-dependent basis (i.e., the magnitude of the expense depends, in part, on the duration of the project and the types of activities taking place). The potential value of scrap from materials generated in dismantling the plant components and building structural steel is included as a credit in the dismantling cost

estimate. Contingency is provided within this estimate to account for unpredictable project events.

OSHA states that demolition involves additional hazards due to unknown factors which make demolition work particularly dangerous. OSHA further states that the hazards of demolition work can be controlled and eliminated with the proper planning, the right personal protective equipment, necessary training, and compliance with OSHA standards. This cost estimate is intended to provide sufficient monies to allow Xcel management to perform the project using these principles and standards.

The dismantling costs, expressed in thousands of 2019 dollars, are provided in the following table.

SUMMARY OF DISMANTLING COSTS
 (All costs are in thousands of 2019 dollars)

| Station | Unit | MWe rating | Type | Fuel | In Service | Station Cost |
|--|-------------|-------------------|-------------|-------------|-------------------|---------------------|
| <i>Electric Generation Facilities –Fossil and Hydro</i> | | | | | | |
| Allen S. King | 1 | 511 | Steam | Coal | 1968 | 65,755 |
| Angus Anson | 1 | | Steam | N/A | 1966 | 12,727 |
| | 2 | 109 | CT | NG/Oil | 1994 | |
| | 3 | 109 | CT | NG/Oil | 1994 | |
| | 4 | 168 | CT | NG/Oil | 2005 | |
| Black Dog (Unit 3 Retired) | 2 | 117 | Steam | (note 1) | 1952 | 48,729 |
| | 3 | 108 | Steam | Coal/NG | 1955 | |
| | 5 | 181 | CCGT | NG | 2002 | |
| | 6 | 228 | CT | NG | 2018 | |
| Blue Lake | 1 | 50 | CT | NG/Oil | 1974 | 16,670 |
| | 2 | 50 | CT | NG/Oil | 1974 | |
| | 3 | 46 | CT | NG/Oil | 1974 | |
| | 4 | 48 | CT | NG/Oil | 1974 | |
| | 7 | 174 | CT | NG/Oil | 2005 | |
| | 8 | 177 | CT | NG/Oil | 2005 | |
| Granite City (All Units Retired) | 1 | 18 | CT | NG/Oil | 1969 | 4,885 |
| | 2 | 18 | CT | NG/Oil | 1969 | |
| | 3 | 18 | CT | NG/Oil | 1969 | |
| | 4 | 18 | CT | NG/Oil | 1969 | |
| Hennepin Island | 1-5 | 13.9 | Hydro | Water | 1882 | 6,352 |
| High Bridge | 1 | 185 | CCGT | NG/Oil | 2008 | 16,983 |
| | 2 | 185 | CCGT | NG/Oil | 2008 | |
| | 3 | 236 | Steam | (note 2) | 2008 | |
| Inver Hills | 1 | 62 | CT | NG/Oil | 1972 | 11,777 |
| | 2 | 62 | CT | NG/Oil | 1972 | |
| | 3 | 62 | CT | NG/Oil | 1972 | |
| | 4 | 62 | CT | NG/Oil | 1972 | |
| | 5 | 61 | CT | NG/Oil | 1972 | |
| | 6 | 62 | CT | NG/Oil | 1972 | |

SUMMARY OF DISMANTLING COSTS
(continued)
 (All costs are in thousands of 2019 dollars)

| Station | Unit | MWe rating | Type | Fuel | In Service | Station Cost |
|--|-------------|-------------------|-------------|-------------|-------------------|---------------------|
| <i>Electric Generation Facilities -Fossil</i> | | | | | | |
| Key City (All Units Retired) | 1 | 18 | CT | NG/Oil | 1970 | 4,530 |
| | 2 | 18 | CT | NG/Oil | 1970 | |
| | 3 | 18 | CT | NG/Oil | 1970 | |
| | 4 | 18 | CT | NG/Oil | 1970 | |
| Minnesota Valley (All Units Retired) | 1 | 10 | Steam | Coal | 1949 | 22,508 |
| | 2 | 10 | Steam | Coal | 1949 | |
| | 3 | 44 | Steam | Coal | 1953 | |
| Red Wing | 1 | 9 | Steam | RDF | 1949 | 15,549 |
| | 2 | 9 | Steam | RDF | 1949 | |
| Riverside (Unit 8 Retired) | 7 | 160 | Steam | (note 3) | 1964 | 40,725 |
| | 8 | 231 | Steam | Coal | 2009 | |
| | 9 | 171 | CT | NG/Oil | 2009 | |
| | 10 | 171 | CT | NG/Oil | 2009 | |
| Sherburne County | 1 | 680 | Steam | Coal | 1976 | 168,356 |
| | 2 | 682 | Steam | Coal | 1977 | |
| | 3 | 876 | Steam | Coal | 1987 | |
| Wilmarth | 1 | 9 | Steam | RDF | 1948 | 15,903 |
| | 2 | 9 | Steam | RDF | 1951 | |
| <i>Gas Production/Storage Facilities</i> | | | | | | |
| Maplewood | | | | | 1957 | 5,113 |
| Sibley | | | | | 1953 | 4,589 |
| Wescott | | | | | 1972 | 11,242 |
| Fleet Totals | | 6,439 | | | | \$472,396 |

NOTES:

- 1 Unit 2 receives steam from Units 5 HRSG
- 2 Unit 3 receives steam from Units 1 and 2 HRSGs
- 3 Unit 7 receives steam from Units 9 and 10 HRSGs

SUMMARY OF DISMANTLING COSTS
Wind Farms (Complete Removal)
 (All costs are in thousands of 2019 dollars)

| Station | Units | MWe rating | Type | Wind Farm Cost |
|---|--------------|-------------------|------------------------|-----------------------|
| <i>Electric Generation Facilities -WTG</i> | | | | |
| Blazing Star I | 100 | 200 | Wind Turbine Generator | 34,766 |
| Border Winds | 75 | 148 | Wind Turbine Generator | 30,974 |
| Courtenay | 100 | 190 | Wind Turbine Generator | 36,313 |
| Foxtail | 75 | 150 | Wind Turbine Generator | 27,558 |
| Grand Meadow | 67 | 99 | Wind Turbine Generator | 25,036 |
| Lake Benton II | 44 | 99 | Wind Turbine Generator | 16,829 |
| Nobles | 134 | 197 | Wind Turbine Generator | 43,589 |
| Pleasant Valley | 100 | 196 | Wind Turbine Generator | 38,738 |
| Fleet Totals | | 1,279 | | \$253,804 |

SUMMARY OF DISMANTLING COSTS
Wind Farms (Removal to 48 inches below grade)
 (All costs are in thousands of 2019 dollars)

| Station | Units | MWe rating | Type | Wind Farm Cost |
|---|--------------|-------------------|------------------------|-----------------------|
| <i>Electric Generation Facilities -WTG</i> | | | | |
| Blazing Star I | 100 | 200 | Wind Turbine Generator | 28,362 |
| Border Winds | 75 | 148 | Wind Turbine Generator | 25,046 |
| Courtenay | 100 | 190 | Wind Turbine Generator | 29,087 |
| Foxtail | 75 | 150 | Wind Turbine Generator | 22,288 |
| Grand Meadow | 67 | 99 | Wind Turbine Generator | 21,697 |
| Lake Benton II | 44 | 99 | Wind Turbine Generator | 14,197 |
| Nobles | 134 | 197 | Wind Turbine Generator | 35,955 |
| Pleasant Valley | 100 | 196 | Wind Turbine Generator | 31,505 |
| Fleet Totals | | 1,279 | | \$208,138 |

1. INTRODUCTION

1.1 OBJECTIVE OF STUDY

The objective of this dismantling cost study prepared by TLG Services is to present an estimate of the costs to dismantle Xcel Energy's fossil-fueled and wind farm generating electrical generating facilities, plus their gas production and storage facilities, in Minnesota, South Dakota, and North Dakota. This study is not intended to be a dismantling plan for each of the stations, but a cost estimate prepared to support current financial planning for future dismantling.

1.2 FACILITY DESCRIPTIONS

Electric Generation Facilities

Allen S. King is a single unit coal fired generating facility with a cyclone-fired boiler. It has a generating capacity of 511 MWe while burning low sulfur Wyoming coal. The plant is located in Oak Park Heights, Minnesota, on the St. Croix River. The unit was installed in 1968. From 2004 to 2007 the unit was completely refurbished as part of an emissions reduction project.

Angus Anson is a three-unit simple cycle combustion gas turbine peaking facility, capable of firing on oil or natural gas. Units 1 and 2 were placed in service in 1994. Unit 3 was placed in service in 2005. The station generating capacity is 386 megawatts. Unit 1, 2, and 3 are rated at 109, 109, and 168 MWe, respectively. The station is located in Sioux Falls, South Dakota adjacent to the decommissioned Pathfinder nuclear facility. The remaining Pathfinder facility features holds the non-nuclear remnants of the test nuclear power plant (minus the reactor) built in 1965.

Black Dog generating station is located on the Minnesota River just south of the Twin Cities. Unit 5, which is a natural gas fired combined cycle combustion gas turbine, replaced the original Unit 1 boiler and steam turbine. The exhaust heat from Unit 5 gas turbine generates steam in the HRSG and powers the original Unit 2 steam turbine that was installed in the 1950's. The Unit 2 boiler has been abandoned in place. The boiler chimney has been removed. Units 3 is abandoned in place and Unit 4 was mostly removed to make room for a new simple cycle combustion gas turbine, Unit 6. The Unit 4 primary precipitator, air heater, forced draft, induced draft and gas recirculation fans, deaerator and storage tank, and one feed-water heater remain in place. The coal yard facilities have been removed as well as the boiler chimneys.

Blue Lake is a six-unit simple cycle combustion gas turbine peaking facility, capable of firing on oil or natural gas. The station generating capacity is 545 megawatts. Units 1-4 are rated at 50 MWe, 50 MWe, 46 MWe, 48 MWe, respectively. Units 7 and 8 are rated at 174 MWe and 177 MWe. The station is located in Shakopee, Minnesota along the Minnesota River. Units 1-4 were placed in service in 1974. Units 7 and 8 were placed in service in 2005.

Granite City is a four-unit simple cycle combustion gas turbine peaking facility, capable of firing on oil or natural gas. The station generating capacity was 72 megawatts with each of the four units rated at 18 MWe. The station is located in St. Cloud, Minnesota. The units were installed in 1970. The station was retired from service in June 2019.

Hennepin Island is a hydroelectric power plant located on the Mississippi River in Minneapolis, MN, on the west side of Hennepin Island. The station consists of five turbine-generator sets, and has a combined generating capacity is 13.9 Mw. The plant was installed in 1882; it was last refurbished in 2010.

High Bridge is a three-unit facility consisting of two combined cycle combustion gas turbines and one steam turbine. The combustion turbines are each direct coupled to a 185 MWe electric generator. The exhaust gas of each combustion turbine is ducted through its own HRSG. The steam from the HRSG is piped to a 236 MWe steam turbine. The station has a net dependable capacity of 606 MWe. The station was placed in service in 2008. It is located in downtown St. Paul, Minnesota, on the Mississippi River.

Inver Hills is a six-unit simple cycle combustion gas turbine peaking facility, capable of firing on oil or natural gas. The station generating capacity is 371 megawatts. Units 1-4 and 6 are rated at 62 MWe each. Unit 5 is rated at 61 MWe. The station is located in Inver Grove Heights, Minnesota. The units were placed in service in 1972.

Key City was a four-unit simple cycle combustion gas turbine peaking facility, capable of firing on oil or natural gas. The station generating capacity was 72 megawatts with Units 1-4 at 18 MWe each. The station is located in Mankato, Minnesota. The units were installed in 1970, and retired in March of 2015.

Minnesota Valley is a three-unit facility abandoned in place. The station consists of two 10 MWe and one 44 MWe coal fired units. The station is located in Chippewa County, Granite Falls, Minnesota. The two 10 MWe units were installed in the late 1940's. The third unit was installed in 1953. The station was retired from service in 2013. All coal yard facilities have been removed.

Red Wing is a two-unit generating facility that burns processed municipal solid waste, referred to as refuse-derived fuel (RDF). The station employs a combination duct scrubber with a baghouse to effectively cut emissions from burning RDF. The scrubber treats flue gas with a water spray and dry lime. The baghouse traps particulate by forcing gas streams through large filter bags. The generating capacity of each unit is 9 MWe. The station is located in Red Wing, Minnesota. The units were installed in the early 1950's (coal fired units) and later modified to burn RDF.

Riverside is a three-unit facility consisting of two combined cycle combustion gas turbine generators (Units 9 and 10) and one steam turbine (refurbished Unit 7 steam turbine). The combustion turbines are each direct coupled to a 171 MWe electric generator. The exhaust gas of each combustion turbine is ducted through its own HRSG. The steam from the HRSG is piped to the Unit 7 160 MWe steam turbine. Abandoned in place, and included in this estimate, are the retired Units 6, 7 and 8 boilers, and the Unit 8 steam turbine with all its associated piping and system components. The three operational units went into service in 2009. The station is located northeast of Minneapolis on the Mississippi River.

Sherburne County is a three-unit 2,238 MWe coal-fired facility. The station is located in Becker, Minnesota, 45 miles northwest of the Twin Cities, on the Mississippi River. Units 1, 2 and 3 have a net dependable capacity of 680, 682, and 876 MWe each, respectively. The units were installed in 1976, 1977, and 1987.

Wilmarth is an electric generating facility that burns RDF. The station employs a combination duct scrubber with a baghouse to effectively cut emissions from burning RDF. The scrubber treats flue gas with a water spray and dry lime. The baghouse traps particulate by forcing gas streams through large filter bags. The generating capacity of Unit 1 and 2 is 9 MWe each. The station is located in Mankato, Minnesota. The units were installed in the early 1950's and modified in 1987 to burn RDF.

Gas Production/Storage Facilities

Maplewood is a propane storage facility with an effective propane storage capacity of 1.355 million gallons. The plant, located in Maplewood, Minnesota, was placed in-service in 1957.

Sibley is a propane storage facility used to supplement natural gas supplies during peak demand periods, with an effective propane storage capacity of 1.2

million gallons. The plant, located in Mendota Heights, Minnesota, was placed in service in 1953.

Wescott is a liquefied natural gas peak-shaving plant. The facility collects and stores natural gas for future supply to the local natural gas distribution systems during cold winter periods when regional natural gas supplies may not meet the increased demand. The facility is located in Inver Grove Heights, Minnesota, and was completed in 1972.

Wind Farms

Blazing Star I is a 100-unit wind turbine complex located on privately owned farmland in Lincoln County in southwestern Minnesota. The wind farm is composed of 10, 2.0 MWe V-110 and 90, 2.0 MWe V-120 Vestas wind turbines for a complex total of 200 MWe. The units are expected to be placed into full service in 2020.

Border Winds Project is a 75-unit wind turbine complex located on privately owned farmland in Rolla, North Dakota. The wind farm is composed of 75, 2.0 Mwe (nominal) V-100-2.0 Vestas wind turbines for a complex total of 148 MWe. The units were placed into service in 2015.

Courtenay is a 100-unit wind turbine complex located on privately owned farmland in Jamestown, North Dakota. The wind farm is composed of 100, 2.0 MWe (nominal) V-100-2.0 Vestas wind turbines for a complex total of 190 MWe. The units were placed into service in 2016.

Foxtail is a 75-unit wind turbine complex located on privately owned farmland in Kulm, North Dakota. The wind farm is composed of 7, 2.0 MWe V-110 and 68, 2.0 MWe V-120 Vestas wind turbines for a complex total of 150 MWe. The units were placed into service in 2019.

Grand Meadow is a 67-unit wind turbine complex located in a stretch of farm fields six miles long and four miles wide. The farm is spread out over roughly 10,000 acres southeast of Interstate 90 in Grand Meadow, Clayton, and Dexter Townships in Mower County, Minnesota. Each GE 1.5-77 wind turbine / generator set has a rated capacity of 1.5 Mwe (nominal) for a complex total of 99 MWe. The units were placed in service in 2008.

Lake Benton II is a 44-unit wind turbine complex located on privately owned farmland in Ruthton, Minnesota. The wind farm is composed of 5, 2.1 Mwe (nominal) GE 2.1-116 and 39, 2.3 Mwe (nominal) GE 2.3-116 General Electric

wind turbines for a complex total of 99 MWe. The units were placed into service in 2019.

Nobles is a 134-unit wind turbine complex located in the Buffalo Ridge area of Minnesota. The wind farm is spread out over roughly 42 square miles in Nobles County, Minnesota, in Olney, Dewald, Larkin, and Summit Lake townships. Each GE 1.5-77 wind turbine / generator set has a rated capacity of 1.5 Mwe (nominal) for a complex total of 197 MWe. The units were placed in service in 2011.

Pleasant Valley is a 100-unit wind turbine complex located on privately owned farmland in Dexter, Minnesota. The wind farm is composed of 100, 2.0 (nominal) MWe V-100-2.0 Vestas wind turbines for a complex total of 196 MWe. The units were placed into service in 2015.

1.3 SCOPE

The scope of the dismantling estimate includes the following significant cost elements:

- Preparation for safe dismantling;
 - Hazardous materials characterization for such items as ACM (asbestos-containing materials), lead, mercury, PCBs, hydrocarbons in soil, etc.
 - Isolation of the units in preparation for safe dismantling (e.g. ensuring systems are de-energized, fuel and chemical storage tanks are drained and cleaned, etc. (where applicable))
- Abatement of ACM prior to dismantling (where applicable)
- Labor, equipment, and material costs associated with the removal and disposition of all installed equipment
- Labor, equipment, and material costs associated with the demolition and disposition of buildings and foundations
- Demolition contractor's on-site management, engineering, safety, and administrative staff
- Demolition contractor's expenses, including insurance, permits, and fees.
- Xcel's on-site management, oversight, and security staff
- A cost credit associated with the disposition of scrap metals
- Cost contingency

Costs are provided for each generating station or facility, identified by significant cost element. The cost per station includes the costs for dismantling the generating unit and the common station facilities. Costs are provided in 2019 dollars.

1.4 GENERAL APPROACH

The general approach in assembling the estimate was to develop an inventory of equipment and structures designated to be removed for each facility. This inventory was established using site walk-downs (including discussions with the Operations & Maintenance staff), station-provided equipment databases, and plant drawings. This inventory accounted for similarities between facilities.

The abatement, removal, demolition and restoration activity costs are estimated by applying unit cost factors (developed for each inventory item) against the inventory. Costs for project management, shared equipment and consumables, and similar types of costs are estimated on a period-dependent basis (i.e., the magnitude of the expense depends, in part, on the duration of the project and the types of activities taking place). The potential value of scrap from materials generated in dismantling the plant components and building structural steel is included as a credit in the dismantling cost estimate. Contingency is provided within this estimate to account for unpredictable project events.

OSHA states that demolition involves additional hazards due to unknown factors which make demolition work particularly dangerous. OSHA further states that the hazards of demolition work can be controlled and eliminated with the proper planning, the right personal protective equipment, necessary training, and compliance with OSHA standards. The cost estimate is intended to provide sufficient monies to allow Xcel management to perform the project using these principles and standards.

Limited site landscaping is included, which covers grading and seeding for drainage and erosion control.

Section 2 of this report identifies the activities and sequence of activities necessary to dismantle a generating station. Section 3 provides the specific bases for the estimate. Section 4 discusses scrap metal and associated credits to the dismantling costs. Section 5 provides the results. Appendices, noted throughout this report, provide additional information important to understanding this estimate.

2. DISMANTLING OPERATIONS

The estimate for dismantling the stations is based on the complete removal of the units and common station facilities (except where noted). The following sections describe the project organization, basic activities, and special equipment necessary for accomplishing the dismantling project.

The actual dismantling program begins once the station owner has decided to dismantle the site, either immediately following final shutdown, or after a period of storage following final shutdown. The dismantling program has been organized into three distinct periods: Period 1 - Engineering/Planning and Asbestos and Other Hazardous Material Abatement (if necessary); Period 2 - Dismantling Operations; and Period 3 - Site Restoration. This section summarizes the activities performed under each Period of the program.

For the purposes of this estimate it is assumed that once the decision to dismantle has been made and a project start date established, the work in each of these periods will be completed successively (no delay between periods). This report does not attempt to describe all of the activities necessary to dismantle a station, but identifies representative activities appropriate to this type of project.

2.1 PRE-SHUTDOWN ACTIVITIES

The estimates include a planning staff for a year prior to final shutdown to plan for the dismantling program. A staff of seven full-time equivalent personnel is included in this estimate; smaller stations will have a reduced staffing amount.

2.2 POST-SHUTDOWN PLANT STAFF TRANSITION ACTIVITIES

The estimate is based on each station being shut down and placed into a post-shutdown configuration by the plant staff. The length of time that the facility is in this configuration is indeterminate and the costs for maintaining the facility in this configuration is not included within the scope of this dismantling effort. The activities to be completed post-shutdown, but prior to station dismantling, include:

- Removal of consumables and supplies not needed in the post-shutdown configuration
- Removal of residual fuels (including oil/coal)
- Removal of acids and caustics; flushing and cleaning of storage tanks

- Disposition of surplus bulk chemicals and gas storage containers
- Removal of miscellaneous hazardous wastes and combustible materials
- Installation of any appropriate physical barriers (sealing circulating water system) and/or security barriers

The estimate does not account for an extended period of time between final shutdown of the unit(s) and onset of the dismantling program. As such, the plant operations and maintenance staff would be expected to perform the following activities in the interval of time between final plant shutdown, and the onset of the dismantling program.

- If the unit is to be maintained in a condition where lighting, electricity, heating, water, sanitary, and similar services are to remain active, reconfigure these systems to minimize maintenance requirements
- Maintenance of the facility (maintaining roofs and windows, drain systems, and electrical systems to preclude creating hazardous working conditions in the future)

2.3 DISMANTLING ENGINEERING / PLANNING AND ASBESTOS ABATEMENT

When the decision is made to begin physical dismantling of a station, Xcel Energy will begin field dismantling activities, beginning with engineering and planning, and removal of asbestos and other hazardous materials from the station.

2.3.1 Engineering and Planning

A preliminary planning phase of the program begins once it is has been determined that a station will be dismantled and the project has been authorized to proceed. During this phase, the owner assembles its dismantling management organization, makes appropriate decisions regarding the extent of dismantling and the approach to managing the activities, and accomplishes those site preparation activities necessary to transition from a plant shutdown configuration to site dismantling. For purposes of this estimate it is assumed that the intent is to dismantle the entire station as a single project. Costs incurred during this preliminary phase of the program are included in the dismantling costs presented in this study.

Xcel Energy prepares the stations for dismantling by performing the following activities:

- Prepare specifications that identify and describe the objectives and major work activities to be accomplished (establishing the final site configuration)
- Assemble plant documentation that may be relevant to dismantling (drawings, hazardous material reports, environmental studies, etc.)
- Select an asbestos abatement contractor (if required) and Dismantling Contractor
- Assemble and mobilize the management and oversight team responsible for the project
- Documenting hazardous materials location and inventory

2.3.2 Asbestos / Hazardous Material Abatement (as applicable)

The asbestos abatement contractor prepares for this work by thoroughly understanding the scope of the asbestos remediation work and obtaining the permits necessary to initiate the work. Abatement of asbestos is considered an important prerequisite to dismantling the station's systems and structures. The method by which asbestos is abated is strictly controlled by federal and/or state regulations and includes the following requirements:

- Work will be done inside enclosures designed to capture any asbestos-containing particles. With the exception of removal of small quantities of asbestos in local areas, it would be expected that most work will be done in large enclosures (containment tents). The enclosures will have a filtered exhaust and be maintained under negative air pressure (air will leak into the enclosure rather than leak out).
- The air outside of the enclosures will be monitored to ensure barriers are effective.
- Workers, while working inside enclosures, will wear respiratory protective equipment as well as protective clothing.
- All materials removed from the enclosure will be packaged in accordance with regulations (minimum double-bag), and will be removed via a materials handling access area.
- Workers will enter and exit the enclosures through a personnel decontamination chamber in a controlled manner (ensuring asbestos contamination does not spread beyond the containment).

- After the asbestos abatement is complete, the effectiveness of the process will be established via regulatory-specified processes (generally verifying that there is no asbestos containing material capable of becoming airborne).
- Asbestos containing materials will be disposed of at a properly licensed disposal facility.
- After ensuring that all asbestos has been removed, the enclosures will be taken down in accordance with regulatory requirements and disposed of at a licensed facility.
- Clean coal-fired boilers by washing down all surfaces interior to the boilers.
- Clean fly-ash handling equipment, e.g., filters and holding tanks.
- De-water ash settling ponds and/or basins.

2.3.3 Dismantling Preparations

The dismantling contractor prepares the station for dismantling by performing the following activities:

- Installing environmental barriers and monitoring equipment
- Reviewing plant drawings and specifications that may be useful for the dismantling project
- Identifying the processes to achieve the final desired station configuration
- Identifying the major work sequence
- Preparing dismantling activity specifications and work orders/forms
- Preparing detailed dismantling procedures
- Preparing a dismantling plan
- Preparing permit application(s) for plant demolition
- Mobilizing site staff
- Configuring temporary services/facilities to support dismantling operations
- Arranging for heavy lift and dismantling equipment, rigging, and tooling
- Hiring and training the labor force

2.4 DISMANTLING OPERATIONS

Dismantling activities are initiated after completing the engineering and planning process, and after asbestos abatement and removal of hazardous materials is complete. The sequence of activities will be determined at the time of dismantling, but typically a sequence would include the following items. Dismantling sequences are presented for each of the Xcel Energy facility types. In all types the station is electrically disconnected from all power sources; the Dismantling Contractor will provide temporary power as needed to support the removal activities.

2.4.1 Steam Plants

- Removing coal yard equipment (if required), including unloading structures, conveyors, transfer towers, and reclaim systems
- Removing above-ground storage tanks
- Removing large equipment from rooftops or at higher elevations
- Removing equipment that must be removed prior to start of boiler structure removal, including fly-ash handling, coal handling, burner fuel supply, scrubbers, air and flue gas ducts, etc.
- Removing electrostatic precipitator and bag houses by cutting casings and connecting gas ducts
- Removing the top of the boiler enclosure to allow access to the platens
- Removing the boiler waterwalls
- Removing steam drum and deaerator by severing all connections and lowering to grade
- Removing boiler structural steel
- Disassembling the turbine/generator and condenser
- Removing all other equipment and components required prior to structures demolition
- Removing the turbine building superstructure and interior floors
- Blasting/dismantling the concrete turbine-generator pedestal(s)
- Removing siding from buildings
- Dismantling steel framing
- Demolishing structural concrete

- Removing the stack(s)
- Removing cooling tower(s) and / or cooling water intake and discharge structures
- Removing all other site structures within the scope of the dismantling program
- Sorting and organizing materials for pickup by the scrap dealer(s)
- Size reducing concrete rubble to remove reinforcing steel
- Removing any temporary services used to support the dismantling effort (lighting / ventilation / electrical / groundwater management)

2.4.2 Combustion Turbines

- Removing above-ground storage tanks
- Removing large equipment from rooftops or at higher elevations
- Disassembling the turbine and generator
- Removing all other equipment and components required prior to building demolition
- Blasting/dismantling the concrete turbine-generator foundation(s)
- Demolishing remaining concrete
- Removing cooling tower(s) and / or cooling water intake and discharge structures (High Bridge only)
- Removing all other site structures within the scope of the dismantling program
- Sorting and organizing materials for pickup by the scrap dealer(s)
- Size reducing concrete rubble to remove reinforcing steel

2.4.3 Hydroelectric Plants

- Installing cofferdams at inlet to power channel and discharge channel
- Removing large equipment from rooftops or at higher elevations
- Disassembling and removing the generators
- Disassembling and removing the water turbines
- Removing all other equipment and components required prior to structures demolition

- Removing the powerhouse structure and interior floors
- Blasting/dismantling the concrete turbine-generator foundations
- Dismantling steel framing
- Demolishing brick walls and structural concrete
- Removing all other site structures within the scope of the dismantling program
- Sorting and organizing materials for pickup by the scrap dealer(s)
- Size reducing concrete rubble to remove reinforcing steel

2.4.4 Wind Turbines (complete removal)

- Removing turbine blades from turbine shaft
- Removing turbine-generator housings from towers
- Removing towers from foundations
- Removing all other equipment and components required prior to structures demolition
- Blasting/dismantling the concrete tower foundations
- Excavating and removing all buried electrical cables
- Removing all other site structures within the scope of the dismantling program
- Sorting and organizing materials for pickup by the scrap dealer(s)
- Size reducing concrete rubble to enhance its suitability for backfill

2.4.5 Wind Turbines (removal to 48" below grade)

- Removing turbine blades from turbine shaft
- Removing turbine-generator housings from towers
- Removing towers from foundations
- Removing all other equipment and components required prior to structures demolition
- Removing the concrete tower foundation pedestal to 48" below grade
- Buried electrical cables below 48" left in place
- Removing all other site structures within the scope of the dismantling program

- Sorting and organizing materials for pickup by the scrap dealer(s)
- Size reducing concrete rubble to enhance its suitability for backfill

2.5 SITE RESTORATION

Site restoration activities are initiated following completion of the dismantling operations. The objective of site restoration in this estimate is to restore the station grounds to a configuration that does not pose a safety hazard; and plant vegetation for erosion control. As such, landscaping will be limited to grading, placement of top soil, and seeding. Site restoration as used in this estimate is not intended to re-configure the station for redevelopment, e.g. use as a recreational or industrial facility.

A typical site restoration sequence would be:

- Crush all concrete rubble and remove reinforcing steel. Concrete debris will be shipped off site for disposal as construction debris. Reinforcing steel will be recycled
- Backfill below grade voids with clean compactible fill as necessary.
- General grading of the station
- Placement of top soil or other suitable surface material necessary to maintain erosion control
- Landscaping to the extent necessary to re-vegetate the station (grass or similar plant materials), and
- Demobilizing personnel and equipment

3. COST ESTIMATE

The basis, methodology, and assumptions for the site-specific cost estimate are described in the following paragraphs.

3.1 BASIS OF ESTIMATE

Inventory of Materials to be Removed

The inventory is an essential element of the estimate, since dismantling costs are determined by applying unit cost factors against the corresponding inventory quantities. For each of these estimates a site-specific inventory of materials to be removed was developed using a combination of methods. The inventory used in developing the estimate for each station is provided in Appendix A.

Comparable Boiler / Turbine Unit Information Available to TLG Where TLG had previously developed inventory information for a boiler and turbine of similar size, fuel type and vintage, referred to as “reference unit”, this information was used to represent the boiler / turbine systems inventory for the comparable Xcel Energy unit. In the same manner, non-steam power facilities were also used as reference units for other, similar Xcel Energy facilities. The inventory was adjusted to reflect the difference between the rating of the Xcel Energy reference unit and the rating of the comparable unit.

There are expected differences in other facilities, even if the power generating equipment are similar between comparable units. These include systems and structures associated with cooling water intake and discharge, fuel handling, exhaust gas, maintenance buildings and shops, pollution-control, and the quantity and extent of asbestos containing material (if applicable). For these systems and structures TLG developed the inventory by conducting a walk-down of the station, and extracting information from station-specific drawings and photos.

Comparable Plant Information Not Available to TLG Where the Xcel Energy unit(s) had no comparable match in the TLG database, the site specific inventory was developed “from scratch”, by completing a physical walk-down of each such unit, discussions with the stations’ Operations & Maintenance staff, and extracting data from station-specific maintenance databases (lists of equipment), drawings, and photos.

Economic Cost Drivers (Reference in Section 6)

In developing an estimate, the cost of labor, equipment and material, credit for scrap, and similar costs will influence the results of the estimate. The basis for the significant cost drivers are:

1. Craft labor rates are based on existing contracts with craft labor contractors. These rates were provided by Xcel Energy (Ref. 1).
2. Utility labor rates are based on labor costs for positions likely to be employed during the dismantling project. The 2014 rates were escalated to 2019 values, per Xcel Energy approval, using U.S. Department of Labor's Bureau of Labor Statistics, Consumer Price Index Series ID:CUUR0000SAS (Ref. 2).
3. Material and equipment costs for conventional demolition and/or construction activities, Contractors Insurance, Small Tools Allowance, Permit / Fees, and Contractor's Fee are based on R.S. Means Construction Cost Data (Ref. 3).
4. Scrap metal prices are based on a five-year average of published indices (Ref. 4).
5. Contingency, contractor fee, contractor insurance, environmental sampling, and permits & fees are based upon R.S. Means Construction Cost Data.
6. Costs in this estimate are in 2019 dollars.
7. Property taxes (or payments in lieu of taxes) are not included within the estimate.
8. The estimate to dismantle the stations does not address credit associated with the residual value of the land.

Project Organization

For the purposes of this study, the dismantling project for each station is assumed to be managed by Xcel Energy's Project Director, who would have the primary responsibility for dismantling the station. A Dismantling Contractor, experienced in dismantling similar facilities, would be hired as the prime contractor for the removal of plant components and site facilities. The Dismantling Contractor's Project Manager would report to the Project Director. The Dismantling Contractor would manage and supervise the dismantling activities of the station and be responsible for completing the work in an expeditious and safe manner. Contractor personnel would manage and direct the labor force in accordance with approved procedures and in accordance with a health and safety program. The Xcel staff would maintain and/or provide the engineering, safety, and environmental compliance oversight, and the security

services necessary to support dismantling operations. Figures 3.1 and 3.2 identify typical organizations for the plant/utility staff and the associated contractor personnel during the dismantling phase of the project. The smaller facilities included within this estimate would have a commensurately smaller project organization e.g. Angus Anson, Blue Lake, and Grand Meadow.

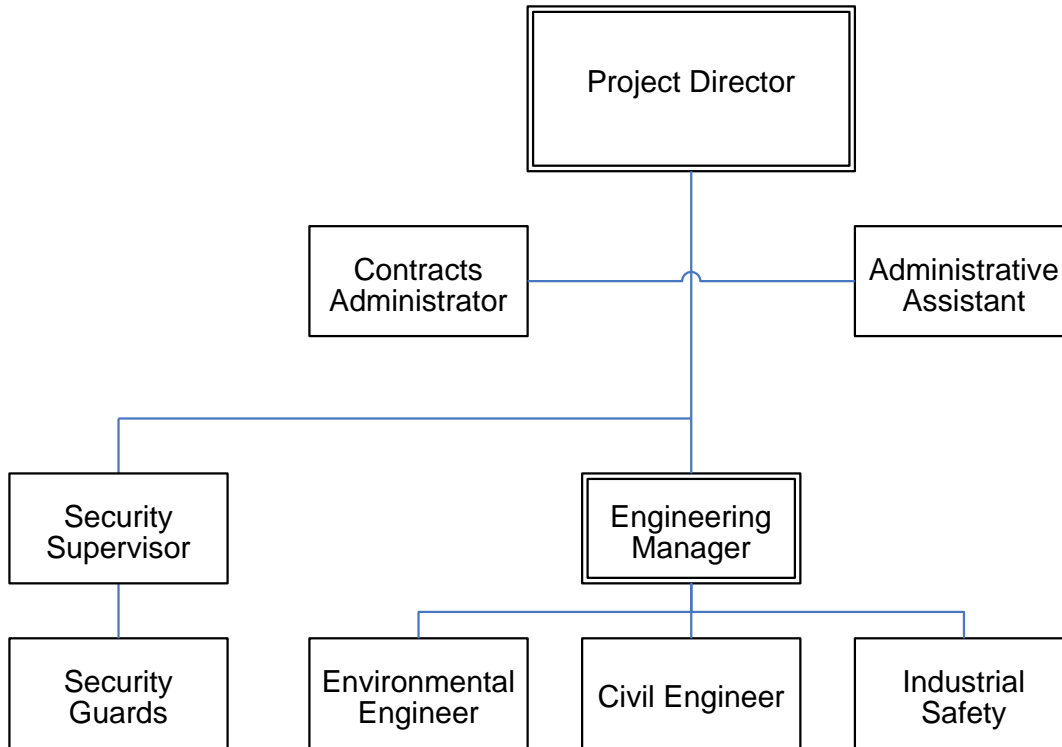
3.2 METHODOLOGY

The methodology used to develop the cost estimate follows the basic approach presented in the AIF/NESP-036, "Guidelines for Producing Commercial Nuclear Power Plant Decommissioning Cost Estimates" (Ref. 5) and the US DOE "Decommissioning Handbook" (Ref. 6). These publications utilize a unit cost factor method for estimating decommissioning activity costs to simplify the estimating calculations. Unit cost factors for concrete removal (\$/cubic yard), steel removal (\$/ton), and cutting costs (\$/in) are developed from the labor cost information from R. S. Means. The activity-dependent costs are estimated using item quantities (cubic yards, tons, inches, etc.) developed from plant drawings and inventory documents. The unit factors used in this study reflect the latest available information on worker productivity in plant dismantling. A sample unit cost factor is provided in Appendix B. A list of unit cost factors is provided in Appendix C.

An activity duration critical path is developed to determine the total dismantling program schedule. This program schedule is then used to determine the period-dependent costs for program management, administration, field engineering, equipment rental, quality assurance, and security. TLG escalated 2014 Xcel Energy salary and hourly rates for personnel associated with period-dependent costs. The costs for conventional demolition of structures, materials, backfill, landscaping, and equipment rental are obtained from R.S. Means. Examples of such unit cost factor development are presented in AIF/NESP-036.

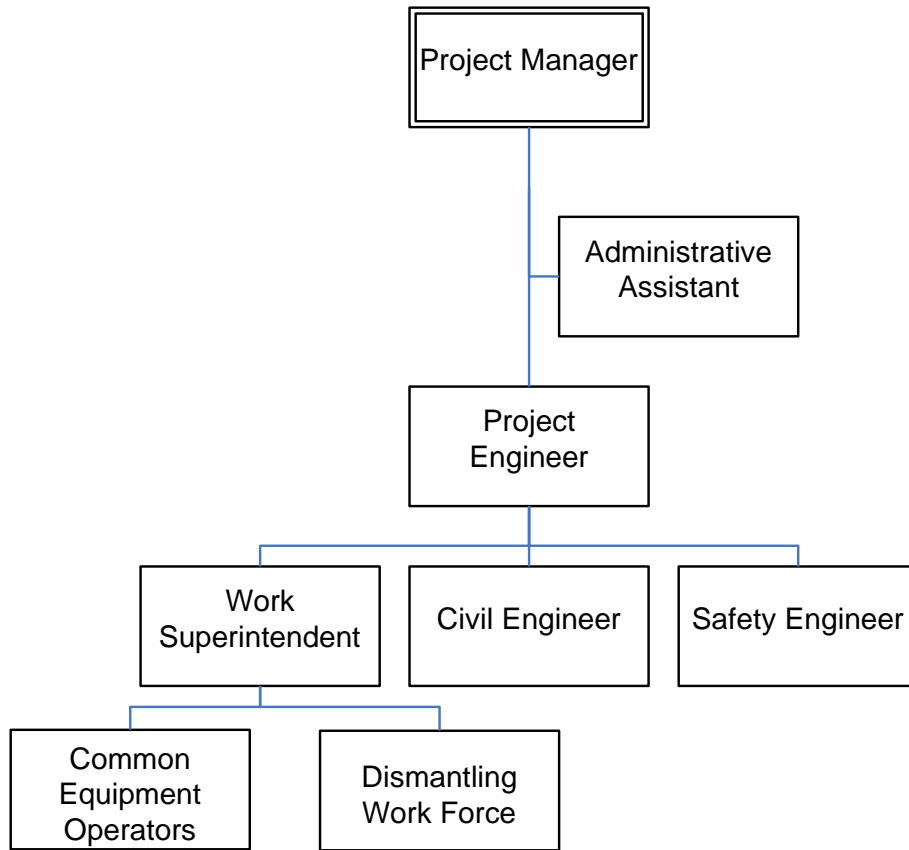
The unit cost factor method provides a demonstrable basis for establishing reliable cost estimates. The detail of activities for labor costs, equipment and consumables costs provide assurance that cost elements have not been omitted. Detailed unit cost factors, coupled with the site-specific inventory of piping, components and structures provide confidence in the cost estimates.

**FIGURE 3.1
DISMANTLING PROJECT ORGANIZATION
UTILITY STAFF**



For a large station such as Sherburne County, this represents a full-time equivalent staffing level of six personnel. This value is reduced for smaller stations.

FIGURE 3.2
DISMANTLING PROJECT ORGANIZATION
DECOMMISSIONING CONTRACTOR STAFF



For a large station such as Sherburne County, this represents a full-time equivalent staffing level of 11.5 personnel. This value is reduced for smaller stations.

The activity-dependent and period-dependent costs are combined with applicable collateral costs to yield the direct decommissioning cost. A contingency is then applied. "Contingencies" are defined in the American Association of Cost Engineers "Project and Cost Engineers' Handbook" (Ref. 7) as "specific provision for unforeseeable elements of cost within the defined project scope; particularly important where previous experience relating estimates and actual costs has shown that unforeseeable events which will increase costs are likely to occur." The cost elements in this estimate are based on ideal conditions; therefore, a contingency factor has been applied.

Examples of items that could occur but have not otherwise been accounted for in this estimate include: labor work stoppages, bad weather delays, equipment/tool breakage, changes in the anticipated plant shutdown conditions, etc. These types of unforeseeable events are discussed in the AIF/NESP-036 study. Guidelines are also provided for applying contingency.

3.3 ASSUMPTIONS

The following assumptions were used in developing the dismantling estimate.

Pre-requisite Activities

1. Dismantling of the station will not commence until all units are retired (cost estimate is not based on independent dismantling of units while adjacent units are operating).
2. The arrangements of the unit facilities as they exist in 2019 based upon walk-downs conducted by TLG, and databases and drawings provided by owner.
3. The dismantling process will be an engineered process with substantial consideration for occupational (worker) safety.
4. The demolition will be performed by a Dismantling Contractor who is responsible to provide adequate staff and equipment to complete the dismantling in a safe manner.
5. Site security costs to restrict access to the demolition project by unauthorized personnel are included.
6. The estimates are based on industrial safety and environmental regulations effective in 2019.
7. All power to the structures will be disconnected prior to beginning removal activities ("Cold and Dark"). The Decommissioning Contractor will provide for temporary power as needed to support dismantling activities.

8. End of life water inventory management in regulated ponds will be addressed in accordance with federal and state rules and closed in place after shutdown.
9. On-site fuel inventories will be used and/or removed prior to start of dismantling.
10. Silos, precipitators, hoppers, tanks, etc., will be emptied by operations and maintenance staff after shutdown.
11. Acids, caustics, and similar hazardous materials will be removed by operations and maintenance staff after shutdown.
12. Consumables, such as ion exchange materials and filters, will also be removed by operations and maintenance staff after shutdown.
13. Stores, spare parts, gas storage containers, laboratory equipment, office furniture, etc., will be removed by the owner after shutdown.
14. Oils used in station transformers may contain PCBs. Lubricating and transformer oils are drained and removed by operations and maintenance staff after shutdown. If any PCB contaminated oil is encountered, it will be removed and disposed of properly.
15. Asbestos (if present) will be removed prior to the start of dismantling. Asbestos insulation and PACM (presumed asbestos containing materials) will be disposed of at licensed facilities. Quantities of asbestos are based on owner-provided information where available. Where such information was not available, the quantities of asbestos were estimated.
16. Prior to initiating dismantling, essentially all live circuits will have been de-energized (to preclude creating an industrial hazard). If required, temporary services systems (air, water, electrical, fire water, etc.) will be used to support dismantling operations and will remain in service throughout the project until no longer required.

Economic Assumptions

17. Post-shutdown “dormancy” costs (i.e., security and maintenance on any of the units retired prematurely) are not included in the study.
18. Escalation/inflation of the costs over the remaining operating life is not included.
19. An allowance of 2% of craft labor costs is used for small tools.
20. A 12.5% fee is added to the Demolition Contractor’s cost to account for its overhead and profit.
21. A 25% contingency is applied to asbestos remediation activities.

22. A 15% contingency is applied to all remaining dismantling-related costs.
23. A credit for scrap metal cost recovery is included in the estimates. Retired plant equipment is assumed to have no value as salvage (sold for re-use).

Physical Work Assumptions

24. The costs for disposition (if required) of contaminated soil (e.g., PCBs, hydrocarbons, lead, asbestos, mercury, acids or caustics) are outside the scope of this estimate.
25. Large equipment and components will be removed prior to structures demolition.
26. An environmental hazards crew will be maintained throughout the demolition period to address such items as lead paint and asbestos that was inaccessible during the asbestos remediation period (where applicable).
27. Turbine pedestals and powerhouse building foundations will be removed by demolition equipment and back-filled to grade.
28. Structures and foundations will be removed with any resulting voids back-filled to grade level. An additional scenario is provided for the wind farms where the equipment and structures are removed only to a depth of 48 inches.
29. Chimney stacks will be blasted to the ground and broken into rubble, the steel liners cut and removed, and the foundations removed.
30. The dismantling of the electrical equipment terminates at the switch yard boundary. The switch yard is left intact.
31. Concrete rubble generated during dismantling will be crushed, reinforcing steel removed, and the concrete disposed of offsite as construction debris.
32. The site will be graded; however, no effort was included in this estimate to restore the original contour of the land. Ground cover will be established for erosion control.
33. Roads, parking lots, etc., are removed after the facility is dismantled (with the exception of the immediate area around the switchyard).

Scheduling Assumptions

34. All work is performed during an eight-hour workday, five days per week, with no overtime.
35. Multiple crews work parallel activities to the maximum extent possible, consistent with efficiency (adequate access for cutting, removal, and

laydown space) and with industrial safety appropriate for demolition of heavy components and structures.

36. Scheduling was calculated without constraints on availability of labor, equipment, or materials.

3.4 STATION-SPECIFIC NOTES

3.4.1 Allen S. King

- All currently operational coal handling equipment and the abandoned-in-place coal barge unloader facility with the twenty-two dolphin-type barge piers are included in the estimate.
- A cofferdam will be installed to allow removal of the condenser cooling water discharge structure and the discharge structure from the cooling tower.
- The boiler and precipitator will be cleaned prior to dismantling.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM).
- The soil beneath the area of the coal pile will be removed to a depth of five feet; the soil will be disposed of offsite as solid waste.
- The ash pond will be backfilled with clean fill prior to placement of the closure cap.

3.4.2 Angus Anson

- The Pathfinder Unit 1 building has been included in this estimate.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.
- Concrete will only be removed to three feet below grade.
- Two large oil storage tanks are included in the estimate. One tank is currently in service. The other tank has been cleaned and remains on stand-by.

3.4.3 Black Dog

- The abandoned-in-place Unit 2 boiler is included in the estimate.
- All chimneys from the coal burning operation have been removed.
- All operational coal handling equipment external to the building e.g. conveyors, rail car unloader, transfer towers, stacker conveyor etc. have been removed. Coal conveyors inside the plant have been abandoned in place but not yet removed.
- A cofferdam will be installed to remove the intake condenser cooling water structure.

3.4.4 Blue Lake

- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- Two large oil storage tanks are included in the estimate. One tank is currently in service. The other tank has been cleaned and remains on stand-by.

3.4.5 Granite City

- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- Two large oil storage tanks are included in the estimate. The tanks have been cleaned.

3.4.6 Hennepin Island

- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- The estimate does not include dam or earthworks removal, or ongoing maintenance.
- Inlet channel to turbines will be backfilled.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.

3.4.7 High Bridge

- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

- A cofferdam will be installed to remove the river intake and discharge structure.

3.4.8 Inver Hills

- Gas supply lines will be cut and capped at the source.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

3.4.9 Key City

- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- Two large oil storage tanks are included in the estimate. The tanks have been cleaned.

3.4.10 Maplewood Gas Plant

- Facility includes multiple liquefied natural gas storage tanks.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

3.4.11 Minnesota Valley

- All three of the abandoned in-place units are included in the estimate.
- The asbestos quantities were calculated considering Unit 3 to be all asbestos and Units 1 and 2 to only have small amounts on the partially dismantled boilers.
- A cofferdam will be installed to remove the river intake and discharge structure.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- The boiler and precipitator will be cleaned prior to dismantling.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM).
- All coal yard facilities have been removed and the ash ponds have been closed.

3.4.12 Red Wing

- The RDF unloading facility and the conveyor transport system are included in the estimate.
- A cofferdam will be installed to remove the cooling water intake and discharge structure.
- The barge unloading facility is not included in the estimate.
- The boiler and precipitator will be cleaned prior to dismantling.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM).
- The ash landfills will be closed in place by capping with a synthetic liner, placing cover over the cap, and seeding.

3.4.13 Riverside

- Included in this estimate are the following abandoned-in-place facilities and equipment:
 - Unit 6, 7 and 8 building structure
 - Unit 6 and 7 boilers
 - Unit 8 boiler, turbine and associated equipment
- Cofferdams will be installed to remove the four cooling water intake and discharge structures.
- Includes barge unloading dock and concrete piles.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM).

3.4.14 Sherburne County

- All coal handling facilities e.g. coal barn, rail car dumper building, coal yard control and maintenance facility, earthen storage berms, conveyor systems, transfer towers etc. are included in this estimate.
- All warehouse/storage type buildings on the site are included in the estimate.
- A cofferdam will be installed to remove the cooling water intake and discharge structure.

- The boiler and precipitator/baghouse will be cleaned prior to dismantling.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM) – Units 1 and 2 only.
- The soil beneath the area of the coal pile will be removed to a depth of five feet; the soil will be disposed of on site in the ash pond.
- The ash pond will be backfilled with coal yard soil prior to placement of the closure cap.
- The Unit 3 dry ash landfill will be closed and capped in accordance with Minnesota’s solid waste permit requirements and applicable federal coal combustion residual rules.
- Some of the planning for Sherburne County includes a unit shutdown with the other units remaining in operation for a number of years. In this event, the costs in Table 5.1n, for the shutdown unit only, should be increased by some fraction to allow for constraints on demolition activities on the shutdown with the other units operational. Based upon discussions with Xcel Energy personnel, an increase of 20% can be used for planning purposes.
- The ash landfills will be closed in place by capping with a synthetic liner, placing cover over the cap, and seeding.
- Two large settling tanks are included in the estimate.

3.4.15 Sibley Gas Plant

- Facility includes multiple liquefied natural gas storage tanks.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

3.4.16 Wescott Gas Plant

- Facility includes two large insulated liquefied natural gas storage tanks.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

3.4.17 Wilmarth

- The RDF bulk storage facility is not included in the estimate. Only the transport section of the facility with conveyor systems and transfer towers is included.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.
- The boiler and precipitator will be cleaned prior to dismantling.
- Lead paint on concrete surfaces will be removed prior to demolition of the concrete structures.
- Rockbestos-insulated electrical cabling and other ACM in cable trays will be removed (all cable trays & cabling disposed of as ACM).
- The ash landfills will be closed in place by capping with a synthetic liner, placing cover over the cap, and seeding.

3.4.18 Wind Farms – Blazing Star I, Border Winds, Courtenay, Foxtail, Grand Meadow, Lake Benton II, Nobles, Pleasant Valley

- All underground power and control cables will be excavated and removed.
- Tower foundations are completely removed.
- All access roads surfaces will be excavated and removed. The excavated areas will be back-filled with soil.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

3.4.19 Wind Farms (Removal to 48-inch depth) – Blazing Star I, Border Winds, Courtenay, Foxtail, Grand Meadow, Lake Benton II, Nobles, Pleasant Valley

- All underground power and control cables will be excavated and removed to a depth of 48 inches below grade.
- Tower foundations pedestals will be removed to 48 inches below grade.
- All access roads surfaces will be excavated and removed. The excavated areas will be back-filled with soil.
- There is a reduced decommissioning management and contractor staff due to the smaller size of this facility.

4. SCRAP METAL CREDITS

The dismantling of a typical fossil plant occurs after a lengthy plant operating life. The existing plant equipment is considered obsolete and suitable for scrap as deadweight quantities only. Xcel Energy will make economically reasonable efforts to salvage equipment following final plant shutdown. However, dismantling techniques assumed by TLG for equipment in this analysis are not consistent with removal techniques required for salvage (resale) of equipment. Experience has indicated that buyers prefer equipment stripped down to very specific requirements before they would consider purchase. This can require expensive work to remove the equipment from its installed location, which is inconsistent with the rapid dismantling approach assumed in this estimate. Since placing a salvage value on this machinery and equipment would be speculative, and the value would be small in comparison to the overall cost of dismantling, this analysis does not attempt to quantify the value that an owner may realize based upon those efforts.

Furniture, tools, mobile equipment such as forklifts, trucks, bulldozers, and other property is removed at no cost or credit to the decommissioning project. Disposition may include relocation to other facilities. Spare parts are made available for alternative use.

The materials used in the equipment and buildings are suitable for recycle as scrap metals. As such, an estimated value of the scrap metal credit has been developed and applied to each station's cost estimate. The value of scrap was estimated using a five-year average of market values extracted from published sources and applying this value to the estimated quantities of materials generated from the dismantling project. There were four basic types of metals used in the scrap estimates; carbon steel (the most common material used at the station), copper, stainless steel (high alloy steel) and aluminum. The scrap credit, in addition to considering the quantity and types of materials, also considered the cost of handling and transporting these materials to a major scrap processing location in the Twin Cities area where scrap is used or sold. The value of the scrap is reduced by the transportation costs.

The basis for scrap metal value is summarized in Table 4.1. A summary of the basis for the scrap credit is provided in Tables 4.2 which details the scrap quantities by material type from each unit, and Table 4.3 lists the dollar value of these quantities.

TABLE 4.1a
BASIS FOR SCRAP METAL VALUE
 (2019 dollars)

Fossil Stations

| Type of Material | Scrap Category ¹ | Market Value ² | Units | Transport Cost ³ | Scrap Metal Credit ⁴ (per ton) |
|-------------------------|------------------------------------|----------------------------------|--------------|------------------------------------|--|
| Carbon Steel | Cast Iron | 202.40 | Per Ton | 46.85 | 155.56 |
| | No. 1 | 253.01 | Per Ton | 46.85 | 206.16 |
| | Mixed Scrap | 202.40 | Per Ton | 46.85 | 155.56 |
| | Galvanized | 55.66 | Per Ton | 46.85 | 8.81 |
| Stainless Steel | SS-1 | 0.77 | Per Pound | 0.02 | 1,490.20 |
| Copper | Insulated Cable | 1.32 | Per Pound | 0.02 | 2,586.11 |
| | No. 2 Copper | 2.11 | Per Pound | 0.02 | 4,168.50 |
| | Copper-Nickel | 3.20 | Per Pound | 0.02 | 6,355.94 |
| | Large Motor | 0.32 | Per Pound | 0.02 | 585.41 |
| Non-Ferrous | Aluminum | 0.29 | Per Pound | 0.02 | 532.27 |

Note 1: Scrap categories are consistent with information provided in Recycler's World.

Note 2: The market value for scrap metal used in this estimate is based on Recycler's World U.S. Scrap Metal Index Spot Market Prices. Values shown represent the average over a 5-year period from January 1, 2015 to December 31, 2019 (See Section 6, reference 4).

Note 3: The estimated cost for handling and transporting the materials to a major scrap processing center in the Twin Cities area is \$46.85 / ton or \$0.023 / pound.

Note 4: The scrap metal credit reflects the market value of scrap adjusted for handling and transport cost to local scrap metal recycler.

TABLE 4.1b
BASIS FOR SCRAP METAL VALUE
 (2019 dollars)

Wind Farms

| Type of Material | Scrap Category ¹ | Market Value ² | Units | Scrap Metal Credit ³ (per ton) |
|-------------------------|------------------------------------|----------------------------------|--------------|--|
| Carbon Steel | Cast Iron | 202.40 | Per Ton | 202.40 |
| | No. 1 | 253.01 | Per Ton | 253.01 |
| | Mixed Scrap | 202.40 | Per Ton | 202.40 |
| | Galvanized | 55.66 | Per Ton | 55.66 |
| Stainless Steel | SS-1 | 0.77 | Per Pound | 1,537.05 |
| Copper | Insulated Cable | 1.32 | Per Pound | 2,632.95 |
| | No. 2 Copper | 2.11 | Per Pound | 4,215.35 |
| | Copper-Nickel | 3.20 | Per Pound | 6,402.79 |
| | Large Motor | 0.32 | Per Pound | 632.26 |
| Non-Ferrous | Aluminum | 0.29 | Per Pound | 579.12 |

Note 1: Scrap categories are consistent with information provided in Recycler's World.

Note 2: The market value for scrap metal used in this estimate is based on Recycler's World U.S. Scrap Metal Index Spot Market Prices. Values shown represent the average over a 5-year period from January 1, 2015 to December 31, 2019 (See Section 6, Reference 4).

Note 3: The scrap metal credit reflects the market value of scrap cost to local scrap metal recycler. Scrap from the wind farms does not include transportation costs; the transport of the scrap from wind farms is separately accounted for in the cost tables *within "Item 1b. Haul Off of Materials (Trucking / Rail)."*

TABLE 4.2a
QUANTITY OF SCRAP METALS BY STATION
(pounds)

Fossil Stations

| Station Name | Carbon Steel | | | Stainless Steel | Galvanized | Copper | | | Copper | | Total |
|------------------|-------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|--------------------|
| | Cast Iron | No. 1 | Mixed Scrap | SS-1 | Steel | Insul Cbl | No. 2 Cu | Large Mtr | Nickel | Aluminum | |
| Allen S . King | 2,976,846 | 41,253,822 | 53,751,220 | 231,075 | 1,010,675 | 157,197 | 590,394 | 1,816,821 | 515,763 | - | 102,303,814 |
| Angus Anson | 944,532 | 7,869,287 | 10,367,485 | 366,129 | 262,382 | 62,845 | 555,614 | 235,889 | 90,000 | - | 20,754,163 |
| Black Dog | 1,643,294 | 27,421,437 | 35,094,140 | 770,520 | 691,748 | 203,840 | 500,072 | 1,777,520 | 221,615 | - | 68,324,186 |
| Blue Lake | 562,895 | 7,151,454 | 16,794,779 | 471,749 | 151,311 | 66,137 | 534,704 | 167,052 | - | - | 25,900,081 |
| Granite City | 415,622 | 1,347,785 | 3,827,752 | 14,999 | 123,454 | 19,672 | 117,956 | 37,557 | - | - | 5,904,796 |
| Hennepin Island | - | 696,327 | 1,821,010 | 1,204 | 32,320 | 17,700 | 44,413 | - | - | - | 2,612,973 |
| High Bridge | 844,602 | 11,853,600 | 18,671,353 | 312,326 | 572,357 | 113,539 | 661,690 | 1,016,734 | - | - | 34,046,202 |
| Inver Hills | 203,824 | 4,050,420 | 12,115,948 | 911,580 | 66,005 | - | 537,241 | 6,408 | - | - | 17,891,426 |
| Key City | 415,622 | 1,000,333 | 3,795,209 | 14,999 | 123,454 | 19,672 | 107,108 | 37,557 | - | - | 5,513,953 |
| Maplewood | 55,689 | 2,277,558 | 514,983 | 109,319 | 31,504 | 6,904 | 16,564 | 374 | - | - | 3,012,895 |
| Minnesota Valley | 638,559 | 12,944,074 | 20,225,105 | 554,769 | 397,131 | 68,843 | 241,236 | 1,395,489 | 294,202 | - | 36,759,408 |
| Red Wing | 269,371 | 5,792,041 | 7,537,990 | 459,747 | 242,290 | 29,016 | 21,797 | 235,896 | 34,301 | - | 14,622,450 |
| Riverside | 717,166 | 26,334,947 | 48,412,618 | 275,384 | 437,669 | 61,010 | 596,359 | 1,432,370 | - | - | 78,267,523 |
| Sherburne County | 4,008,245 | 133,744,558 | 185,765,812 | 2,132,542 | 3,718,089 | 836,673 | 893,799 | 5,411,303 | - | 103 | 336,511,124 |
| Sibley | 53,710 | 1,828,422 | 373,174 | 103,107 | 43,503 | 6,703 | 13,829 | 7,250 | - | - | 2,429,699 |
| Wescott | 47,236 | 7,963,162 | 1,606,330 | 189,165 | 68,387 | 33,887 | 16,236 | 2,591 | - | 1,398,204 | 11,325,198 |
| Wilmarth | 303,646 | 5,170,263 | 7,265,649 | 153,131 | 168,520 | 29,016 | 21,797 | 235,896 | 80,000 | - | 13,427,919 |
| Total | 14,100,859 | 298,699,489 | 427,940,558 | 7,071,745 | 8,140,800 | 1,732,655 | 5,470,810 | 13,816,706 | 1,235,881 | 1,398,307 | 779,607,809 |

TABLE 4.2b
QUANTITY OF SCRAP METALS BY STATION
 (pounds)

Wind Farms (Complete Removal)

| Station Name | Carbon Steel | | Copper | | Aluminum | Total |
|---------------------------------|-------------------|--------------------|------------------|-------------------|-------------------|--------------------|
| | No. 1 | Mixed Scrap | No. 2 Cu | Large Mtr | | |
| Blazing Star I | 5,913,057 | 43,858,999 | 534,453 | 6,015,842 | 2,085,396 | 58,407,747 |
| Border Winds Project | 4,404,257 | 23,658,643 | 400,839 | 3,819,509 | 1,564,047 | 33,847,295 |
| Courtenay | 5,906,025 | 35,509,601 | 534,453 | 5,092,678 | 2,085,396 | 49,128,153 |
| Foxtail | 5,655,813 | 32,880,310 | 400,839 | 4,514,897 | 1,564,047 | 45,015,907 |
| Grand Meadow | 3,862,624 | 33,764,540 | 358,083 | 5,302,782 | 1,397,215 | 44,685,245 |
| Lake Benton II | 3,244,453 | 22,905,242 | 261,714 | 3,326,828 | 1,026,369 | 30,764,606 |
| Nobles | 10,771,870 | 51,911,086 | 716,166 | 10,639,600 | 2,794,431 | 76,833,154 |
| Pleasant Valley | 6,238,545 | 37,955,390 | 534,453 | 5,092,678 | 2,085,396 | 51,906,462 |
| Total (Complete Removal) | 45,996,644 | 282,443,812 | 3,741,000 | 43,804,815 | 14,602,298 | 390,588,569 |

TABLE 4.2c
QUANTITY OF SCRAP METALS BY STATION
 (pounds)

Wind Farms (Down to 48 inches below grade)

| Station Name | Carbon Steel | | Copper | | Aluminum | Total |
|-------------------------------------|------------------|--------------------|---------------|-------------------|----------|--------------------|
| | No. 1 | Mixed Scrap | No. 2 Cu | Large Mtr | | |
| Blazing Star I (48 in.) | 669,104 | 43,858,999 | 11,641 | 6,015,842 | - | 50,555,586 |
| Border Winds Project (48 in.) | 485,434 | 23,658,643 | 8,731 | 3,819,509 | - | 27,972,316 |
| Courtenay (48 in.) | 662,072 | 35,509,601 | 11,641 | 5,092,678 | - | 41,275,992 |
| Foxtail (48 in.) | 610,801 | 32,880,310 | 8,731 | 4,514,897 | - | 38,014,739 |
| Grand Meadow (48 in.) | 561,512 | 33,764,540 | 7,799 | 5,302,782 | - | 39,636,634 |
| Lake Benton II (48 in.) | 385,519 | 22,905,242 | 5,122 | 3,326,828 | - | 26,622,712 |
| Nobles (48 in.) | 1,306,946 | 51,911,086 | 15,599 | 10,639,600 | - | 63,873,231 |
| Pleasant Valley (48 in.) | 658,709 | 37,955,390 | 11,641 | 5,092,678 | - | 43,718,418 |
| Total (Down 48 inch Removal) | 5,340,099 | 282,443,812 | 80,903 | 43,804,815 | - | 331,669,629 |

TABLE 4.3a
SCRAP METAL CREDITS BY STATION
 (thousands of 2019 dollars)

Fossil Stations

| Station Name | Carbon Steel | | | Stainless Steel | Galvanized | Copper | | | Copper | | Total |
|------------------|-----------------|------------------|------------------|-----------------|--------------|-----------------|------------------|-----------------|-----------------|---------------|------------------|
| | Cast Iron | No. 1 | Mixed Scrap | SS-1 | Steel | Insul Cbl | No. 2 Cu | Large Mtr | Nickel | Aluminum | |
| Allen S . King | \$ 232 | \$ 4,252 | \$ 4,181 | \$ 172 | \$ 4 | \$ 203 | \$ 1,231 | \$ 532 | \$ 1,639 | \$ - | \$ 12,446 |
| Angus Anson | \$ 73 | \$ 811 | \$ 806 | \$ 273 | \$ 1 | \$ 81 | \$ 1,158 | \$ 69 | \$ 286 | \$ - | \$ 3,559 |
| Black Dog | \$ 128 | \$ 2,827 | \$ 2,730 | \$ 574 | \$ 3 | \$ 264 | \$ 1,042 | \$ 520 | \$ 704 | \$ - | \$ 8,792 |
| Blue Lake | \$ 44 | \$ 737 | \$ 1,306 | \$ 352 | \$ 1 | \$ 86 | \$ 1,114 | \$ 49 | \$ - | \$ - | \$ 3,688 |
| Granite City | \$ 32 | \$ 139 | \$ 298 | \$ 11 | \$ 1 | \$ 25 | \$ 246 | \$ 11 | \$ - | \$ - | \$ 763 |
| Hennepin Island | \$ - | \$ 72 | \$ 142 | \$ 1 | \$ 0 | \$ 23 | \$ 93 | \$ - | \$ - | \$ - | \$ 330 |
| High Bridge | \$ 66 | \$ 1,222 | \$ 1,452 | \$ 233 | \$ 3 | \$ 147 | \$ 1,379 | \$ 298 | \$ - | \$ - | \$ 4,799 |
| Inver Hills | \$ 16 | \$ 418 | \$ 942 | \$ 679 | \$ 0 | \$ - | \$ 1,120 | \$ 2 | \$ - | \$ - | \$ 3,177 |
| Key City | \$ 32 | \$ 103 | \$ 295 | \$ 11 | \$ 1 | \$ 25 | \$ 223 | \$ 11 | \$ - | \$ - | \$ 702 |
| Maplewood | \$ 4 | \$ 235 | \$ 40 | \$ 81 | \$ 0 | \$ 9 | \$ 35 | \$ 0 | \$ - | \$ - | \$ 404 |
| Minnesota Valley | \$ 50 | \$ 1,334 | \$ 1,573 | \$ 413 | \$ 2 | \$ 89 | \$ 503 | \$ 408 | \$ 935 | \$ - | \$ 5,307 |
| Red Wing | \$ 21 | \$ 597 | \$ 586 | \$ 343 | \$ 1 | \$ 38 | \$ 45 | \$ 69 | \$ 109 | \$ - | \$ 1,809 |
| Riverside | \$ 56 | \$ 2,715 | \$ 3,766 | \$ 205 | \$ 2 | \$ 79 | \$ 1,243 | \$ 419 | \$ - | \$ - | \$ 8,484 |
| Sherburne County | \$ 312 | \$ 13,786 | \$ 14,449 | \$ 1,589 | \$ 16 | \$ 1,082 | \$ 1,863 | \$ 1,584 | \$ - | \$ 0 | \$ 34,681 |
| Sibley | \$ 4 | \$ 188 | \$ 29 | \$ 77 | \$ 0 | \$ 9 | \$ 29 | \$ 2 | \$ - | \$ - | \$ 338 |
| Wescott | \$ 4 | \$ 821 | \$ 125 | \$ 141 | \$ 0 | \$ 44 | \$ 34 | \$ 1 | \$ - | \$ 372 | \$ 1,541 |
| Wilmarth | \$ 24 | \$ 533 | \$ 565 | \$ 114 | \$ 1 | \$ 38 | \$ 45 | \$ 69 | \$ 254 | \$ - | \$ 1,643 |
| Total | \$ 1,097 | \$ 30,790 | \$ 33,285 | \$ 5,269 | \$ 36 | \$ 2,240 | \$ 11,403 | \$ 4,044 | \$ 3,928 | \$ 372 | \$ 92,464 |

TABLE 4.3b
SCRAP METAL CREDITS BY STATION
 (thousands of 2019 dollars)

Wind Farms (Complete Removal)

| Station Name | Carbon Steel | | Copper | | | Aluminum | Total |
|---------------------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-------|
| | No. 1 | Mixed Scrap | No. 2 Cu | Large Mtr | | | |
| Blazing Star I | \$ 748 | \$ 4,439 | \$ 1,126 | \$ 1,902 | \$ 604 | \$ 8,819 | |
| Border Winds Project | \$ 557 | \$ 2,394 | \$ 845 | \$ 1,207 | \$ 453 | \$ 5,457 | |
| Courtenay | \$ 747 | \$ 3,594 | \$ 1,126 | \$ 1,610 | \$ 604 | \$ 7,681 | |
| Foxtail | \$ 715 | \$ 3,327 | \$ 845 | \$ 1,427 | \$ 453 | \$ 6,768 | |
| Grand Meadow | \$ 489 | \$ 3,417 | \$ 755 | \$ 1,676 | \$ 405 | \$ 6,741 | |
| Lake Benton II | \$ 410 | \$ 2,318 | \$ 552 | \$ 1,052 | \$ 297 | \$ 4,629 | |
| Nobles | \$ 1,363 | \$ 5,253 | \$ 1,509 | \$ 3,363 | \$ 809 | \$ 12,298 | |
| Pleasant Valley | \$ 789 | \$ 3,841 | \$ 1,126 | \$ 1,610 | \$ 604 | \$ 7,971 | |
| Total (Complete Removal) | \$ 5,819 | \$ 28,583 | \$ 7,885 | \$ 13,848 | \$ 4,228 | \$ 60,363 | |

TABLE 4.3c
SCRAP METAL CREDITS BY STATION
 (thousands of 2019 dollars)

Wind Farms (Down to 48 inches below grade)

| Station Name | Carbon Steel | | Copper | | | Aluminum | Total |
|-------------------------------------|---------------|------------------|---------------|------------------|-------------|------------------|-------|
| | No. 1 | Mixed Scrap | No. 2 Cu | Large Mtr | | | |
| Blazing Star I (48 in.) | \$ 85 | \$ 4,439 | \$ 25 | \$ 1,902 | \$ - | \$ 6,449 | |
| Border Winds Project (48 in.) | \$ 61 | \$ 2,394 | \$ 18 | \$ 1,207 | \$ - | \$ 3,682 | |
| Courtenay (48 in.) | \$ 84 | \$ 3,594 | \$ 25 | \$ 1,610 | \$ - | \$ 5,312 | |
| Foxtail (48 in.) | \$ 77 | \$ 3,327 | \$ 18 | \$ 1,427 | \$ - | \$ 4,850 | |
| Grand Meadow (48 in.) | \$ 71 | \$ 3,417 | \$ 16 | \$ 1,676 | \$ - | \$ 5,181 | |
| Lake Benton II (48 in.) | \$ 49 | \$ 2,318 | \$ 11 | \$ 1,052 | \$ - | \$ 3,429 | |
| Nobles (48 in.) | \$ 165 | \$ 5,253 | \$ 33 | \$ 3,363 | \$ - | \$ 8,815 | |
| Pleasant Valley (48 in.) | \$ 83 | \$ 3,841 | \$ 25 | \$ 1,610 | \$ - | \$ 5,559 | |
| Total (Down 48 inch Removal) | \$ 676 | \$ 28,583 | \$ 171 | \$ 13,848 | \$ - | \$ 43,277 | |

5. RESULTS

An estimate for dismantling each of the Xcel Energy fossil-fuel and wind farm generating stations in Minnesota and South Dakota was developed by applying the system and structures inventories against the associated unit cost factors and accounting for program support costs. A summary of each station's major cost categories is presented in Table 5.1 for the fossil stations, and in Table 5.2 for the wind farms.

5.1 FOSSIL STATIONS

Breakdowns of the major cost categories by unit and common facilities are provided in Tables 5.1a through 5.1q. Note that columns may not total due to rounding.

The following is an explanation of the contents of each line item in these tables:

Station Unit Rating (MWe) – This is the nominal electrical rating of each unit at the station. In Table 5.1 this represents the sum of all units on site.

Characterization / Temporary Services – The cost associated with performing a hazardous materials survey of the site prior to beginning field activities. Includes costs associated with de-energizing systems and isolation of the electrical systems in the buildings scheduled for dismantling. Costs for installing temporary services to support the dismantling are also included.

Worker Access – The cost associated with providing safe access to areas of the station being dismantled.

Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) – The cost associated with cleaning coal-fired boilers and precipitators / baghouses, and associated flue-gas emission control systems. This line item also includes costs to clean acid and caustic storage tanks.

Asbestos / Lead Paint Remediation– The cost associated with remediating asbestos from the station prior to initiating dismantling activities. It should be noted that dismantling can proceed much more efficiently if asbestos containing materials have been removed. This line item also includes lead paint abatement from concrete surfaces in the buildings.

Equipment Removal – The cost associated with removing all station equipment (piping, valves, heat exchangers, tanks, electrical equipment, etc.).

Boiler(s) – The cost associated with removing the boiler.

Structures Demolition – The cost associated with demolishing the buildings and concrete foundations.

Backfill / Grade / Landscaping / Well Closure – The cost associated with backfilling below grade voids, and grading and landscaping the grounds to preclude erosion of soils. This line item also includes costs to seal groundwater monitoring wells.

Coal Yard Closure – The cost associated with removal and disposal of soil waste beneath the footprint of the coal field to a depth of 5 feet, and backfilling the void.

Ash Landfills / Ash Ponds & Landfills Including Evaporation Ponds / Ash Pond Dewatering – The cost associated with closure of the ponds on site, including placement of a cap on the pond(s) after backfilling.

Utility Management / Oversight – The staff directly assigned to manage the dismantling project, including planning, execution, oversight, and restoration.

Demolition Contractor Mgmt. / Super. / Safety Staff – The contractor's staff assigned to manage, engineer, and supervise the dismantling project, including site safety personnel.

Security – Personnel assigned to control access to the dismantling site.

Property Taxes – Not included in this estimate.

The following six items, grouped as Project Expenses, are calculated on a station basis, but are apportioned among the generating units on site by a ratio of the craft labor hours for each generating unit.

Shared Heavy Equipment / Operating Engineers – The cost for renting / operating equipment in general use throughout the dismantling project (cranes, trucks, forklifts, front-end loaders, etc.).

Small Tool Allowance – The cost for procuring small tools; this is consistent with R.S. Means 2019 Item 01 54 39.70-0100.

Utilities Allowance (Office Equip & Supplies / Telephone, Electric etc.) – The cost for procuring utility services and office supplies in support of the field office for the utility management and demolition contractor staffs.

Permits – The cost of obtaining permits; this is consistent with R.S. Means 2019 Item 01 41 26.50.

Demolition Contractors Insurance – The cost of the demolition contractors insurance; the value is consistent with the R.S. Means 2019 Item 01 31 13.30, lines 0020, 0200, and 0600.

Demolition Contractors Fee – A fee applied to contractor activities; this represents the Contractors overhead and profit payment for the project and is consistent with R.S. Means 2019 Item 01 31 13.80 lines 0350, 0400 and 0450.

Contingency – The cost to cover expenses for unforeseen events that are likely to occur. The estimate assumes 25% (consistent with TLG’s experience for similarly highly regulated activities in the nuclear industry) for the asbestos remediation work, and 15% for all other project activities, consistent with the R.S. Means 2019 Item 01 21 16.50 lines 0050 and 0100.

Scrap Credit – A credit to the project for the recovery of scrap metals. This corresponds to value shown in Table 4.3a through 4.3c.

The following is an explanation of the contents of each column in the 5.1 Tables:

Unit – Costs directly attributed to the physical work associated with dismantling a generating unit.

Common – Costs directly attributed to the physical work associated with dismantling facilities shared by more than one unit.

Station – Costs associated with supporting the physical dismantling work for a station.

Station Total – The summation of all Unit columns, plus Common and Station columns.

This study provides an estimate for dismantling under current requirements, based on present-day costs and available technology. As inputs to the cost model change over time, such as labor rates, equipment costs, scrap metal value, etc., this cost estimate should be reviewed and updated to reflect these changes.

TABLE 5.1
SUMMARY OF ACTIVITY COSTS – FOSSIL STATIONS
(2019 Dollars)

| Activities (Costs) | Allen S . King | Angus Anson | Black Dog | Blue Lake | Granite City | Hennepin Island | High Bridge | Inver Hills | Key City | Maplewood | Minnesota Valley | Red Wing | Riverside | Sherburne County | Sibley | Wescott | Wilmarth | Fleet Totals |
|---|----------------|-------------|-------------|-------------|--------------|-----------------|-------------|-------------|-----------|-----------|------------------|-------------|-------------|------------------|-----------|-------------|-------------|--------------|
| Station Rating (MWe) | 511 | 386 | 526 | 545 | 0 | 14 | 606 | 371 | 0 | 0 | 0 | 18 | 590 | 2238 | 0 | 0 | 18 | 5778 |
| Characterization / Temporary Services | 351,606 | 297,606 | 907,818 | 330,606 | 239,606 | 237,606 | 456,606 | 263,439 | 239,606 | 125,803 | 519,212 | 471,212 | 1,035,818 | 1,136,818 | 125,803 | 159,404 | 471,000 | 7,369,573 |
| Worker Access | 630,789 | - | 793,518 | - | - | - | - | - | - | - | 187,086 | 123,388 | - | 1,988,310 | - | - | 123,388 | 3,846,477 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 1,080,300 | 240,000 | - | - | - | - | - | 342,500 | - | - | 500,900 | 515,600 | 526,800 | 3,243,150 | - | - | 515,600 | 6,964,850 |
| Asbestos / Lead Paint Remediation | 4,284,988 | 142,847 | 4,731,083 | - | - | 146,899 | - | - | - | - | 3,576,022 | 1,443,877 | 3,167,908 | 5,517,768 | - | - | 1,443,877 | 24,455,269 |
| Equipment Removal | 9,548,255 | 5,634,452 | 7,019,825 | 5,928,449 | 874,216 | 316,678 | 4,605,839 | 4,440,318 | 874,216 | 1,362,397 | 2,863,962 | 2,030,731 | 4,234,148 | 30,534,794 | 1,129,907 | 4,647,516 | 1,746,502 | 87,792,206 |
| Boiler(s) | 3,460,641 | - | 3,167,478 | - | - | - | - | - | - | - | 1,193,285 | 540,184 | 2,693,576 | 12,984,236 | - | - | 841,285 | 24,880,685 |
| Structures Demolition | 12,492,666 | 1,769,185 | 6,719,654 | 2,723,261 | 948,877 | 1,605,413 | 4,537,604 | 1,533,028 | 802,108 | 116,305 | 3,871,934 | 2,505,253 | 9,411,897 | 35,356,935 | 84,384 | 763,648 | 1,999,579 | 87,241,729 |
| Backfill / Grade / Landscaping / Well Closure | 3,697,788 | 1,133,560 | 2,767,357 | 1,529,390 | 383,922 | 790,474 | 1,742,979 | 1,343,018 | 243,348 | 161,005 | 1,432,771 | 1,079,539 | 2,498,203 | 9,987,445 | 164,731 | 756,289 | 780,770 | 30,492,588 |
| Coal Yard Closure | 10,718,358 | - | - | - | - | - | - | - | - | - | - | - | - | 8,264,365 | - | - | - | 18,982,723 |
| Ash Landfills / Ash Ponds & Landfills Including Evaporation Ponds / Ash Pond Dewatering | 950,000 | - | 3,215,960 | - | - | - | - | - | - | - | - | 457,152 | - | 23,923,905 | - | - | 1,400,239 | 29,947,256 |
| Utility Management / Oversight | 3,027,199 | 945,676 | 3,459,078 | 1,580,835 | 784,321 | 778,453 | 1,618,917 | 1,333,298 | 781,800 | 871,780 | 1,979,405 | 1,119,169 | 3,482,165 | 3,860,869 | 839,852 | 1,003,663 | 1,119,169 | 28,585,648 |
| Demolition Contractor Mgmt / Super. / Safety Staff | 3,699,644 | 886,053 | 4,873,798 | 1,562,983 | 488,361 | 401,322 | 1,654,047 | 971,065 | 482,147 | 550,634 | 2,196,028 | 1,130,906 | 4,775,533 | 6,129,664 | 499,554 | 1,028,973 | 1,130,906 | 32,461,621 |
| Security | 776,195 | 197,940 | 960,031 | 197,940 | 115,679 | 145,241 | 208,222 | 131,103 | 114,394 | 194,084 | 298,195 | 272,488 | 965,867 | 1,135,113 | 177,374 | 227,502 | 272,488 | 6,389,856 |
| Property Taxes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Project Expenses | | | | | | | | | | | | | | | | | | |
| Shared Heavy Equipment / Operating Engineers | 3,194,695 | 882,518 | 4,301,582 | 1,441,364 | 476,691 | 622,535 | 1,526,730 | 886,484 | 470,350 | 863,495 | 2,010,686 | 1,209,872 | 4,169,727 | 5,525,323 | 781,061 | 1,028,362 | 1,209,872 | 30,601,346 |
| Small Tool Allowance | 683,023 | 173,521 | 508,038 | 206,202 | 44,900 | 57,909 | 220,828 | 147,564 | 39,153 | 33,294 | 262,821 | 153,819 | 406,870 | 1,936,030 | 28,080 | 123,849 | 138,068 | 5,163,971 |
| Utilities Allowance | 52,508 | 30,400 | 64,945 | 30,400 | 17,766 | 22,306 | 31,979 | 20,135 | 17,569 | 29,807 | 45,797 | 41,849 | 65,339 | 76,789 | 27,241 | 34,940 | 41,849 | 651,617 |
| Permits | 685,566 | 139,877 | 488,388 | 171,908 | 43,429 | 52,514 | 184,708 | 124,344 | 39,606 | 40,534 | 233,256 | 146,292 | 412,323 | 1,832,569 | 35,510 | 106,787 | 148,037 | 4,885,649 |
| Demolition Contractors Insurance | 1,613,171 | 329,137 | 1,149,202 | 404,509 | 102,191 | 123,569 | 434,626 | 292,589 | 93,195 | 95,379 | 548,864 | 344,233 | 970,216 | 4,312,127 | 83,556 | 251,276 | 348,338 | 11,496,176 |
| Demolition Contractors Fee | 6,680,544 | 1,346,638 | 4,479,356 | 1,595,761 | 391,450 | 496,988 | 1,717,737 | 1,174,177 | 352,394 | 353,503 | 2,155,825 | 1,382,875 | 3,699,103 | 18,327,570 | 307,534 | 984,009 | 1,401,050 | 46,846,515 |
| Sub-Total | 67,627,939 | 14,149,409 | 49,607,111 | 17,703,605 | 4,911,409 | 5,797,909 | 18,940,824 | 13,003,063 | 4,549,886 | 4,798,021 | 23,876,048 | 14,968,441 | 42,515,494 | 176,073,780 | 4,284,587 | 11,116,217 | 15,132,016 | 489,055,758 |
| Contingency | 10,572,690 | 2,136,696 | 7,914,175 | 2,655,541 | 736,711 | 884,376 | 2,841,124 | 1,950,459 | 682,483 | 719,703 | 3,939,009 | 2,389,654 | 6,694,115 | 26,962,844 | 642,688 | 1,667,433 | 2,414,190 | 75,803,891 |
| Project Total (before scrap credit) | 78,200,628 | 16,286,105 | 57,521,286 | 20,359,146 | 5,648,121 | 6,682,285 | 21,781,947 | 14,953,523 | 5,232,369 | 5,517,724 | 27,815,058 | 17,358,094 | 49,209,609 | 203,036,624 | 4,927,275 | 12,783,650 | 17,546,206 | 564,859,649 |
| Scrap Credit | (12,446,046) | (3,559,337) | (8,791,629) | (3,688,291) | (762,978) | (329,908) | (4,798,599) | (3,176,879) | (702,022) | (404,310) | (5,307,403) | (1,808,929) | (8,484,150) | (34,681,107) | (338,307) | (1,541,232) | (1,642,767) | (92,463,894) |
| Project Total | 65,754,582 | 12,726,768 | 48,729,657 | 16,670,855 | 4,885,143 | 6,352,377 | 16,983,348 | 11,776,644 | 4,530,347 | 5,113,414 | 22,507,655 | 15,549,165 | 40,725,459 | 168,355,517 | 4,588,968 | 11,242,417 | 15,903,439 | 472,395,755 |

TABLE 5.1a
ALLEN S. KING STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Common | Station | Station Total |
|--|---------------|---------------|----------------|----------------------|
| Allen S . King Unit Rating (MWe) | 511 | | | 511 |
| Characterization / Temporary Services | 150,000 | - | 201,606 | 351,606 |
| Worker Access | 630,789 | - | | 630,789 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 1,000,300 | 80,000 | | 1,080,300 |
| Asbestos / Lead Paint Remediation | 4,284,988 | - | | 4,284,988 |
| Equipment Removal | 7,865,365 | 1,682,890 | | 9,548,255 |
| Boiler(s) | 3,460,641 | - | | 3,460,641 |
| Structures Demolition | 10,016,294 | 2,476,372 | | 12,492,666 |
| Backfill / Grade / Landscaping / Well Closure | 2,605,976 | 977,821 | 113,991 | 3,697,788 |
| Coal Yard Closure | | 10,718,358 | | 10,718,358 |
| Ash Landfills / Ash Ponds & Landfills Including Evaporation Ponds | | 950,000 | | 950,000 |
| Utility Management / Oversight | | | 3,027,199 | 3,027,199 |
| Demolition Contractor Management / Supervisory / Safety Staff | | | 3,699,644 | 3,699,644 |
| Security | | | 776,195 | 776,195 |
| Property Taxes | - | - | - | 0 |
| Project Expenses | | | | |
| Shared Heavy Equipment / Operating Engineers | | | 3,194,695 | 3,194,695 |
| Small Tool Allowance | 580,281 | 102,742 | n/a | 683,023 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | 52,508 | 52,508 |
| Permits | | | 685,566 | 685,566 |
| Demolition Contractors Insurance | | | 1,613,171 | 1,613,171 |
| Demolition Contractors Fee | | | 6,680,544 | 6,680,544 |
| Sub-Total | | | | 67,627,939 |
| Contingency | | | | 10,572,690 |
| Project Total (before scrap credit) | | | | 78,200,628 |
| Scrap Credit | (11,244,369) | (1,201,677) | - | (12,446,046) |
| Project Total | | | | 65,754,582 |

TABLE 5.1f
HENNEPIN ISLAND STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1-5 | Station | Station Total |
|--|-----------------|----------------|----------------------|
| Hennepin Island Unit Rating (MWe) | 14 | | 14 |
| Characterization / Temporary Services | 36,000 | 201,606 | 237,606 |
| Lead Paint Remediation | 146,899 | | 146,899 |
| Equipment Removal | 316,678 | | 316,678 |
| Structures Demolition | 1,605,413 | | 1,605,413 |
| Grade / Landscaping | 790,474 | - | 790,474 |
| Utility Management / Oversight | | 778,453 | 778,453 |
| Demolition Contractor Management / Supervisory / Safety Staff | | 401,322 | 401,322 |
| Security | | 145,241 | 145,241 |
| Property Taxes | - | - | 0 |
| Project Expenses | | | |
| Shared Heavy Equipment / Operating Engineers | | 622,535 | 622,535 |
| Small Tool Allowance | 57,909 | n/a | 57,909 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | 22,306 | 22,306 |
| Permits | | 52,514 | 52,514 |
| Demolition Contractors Insurance | | 123,569 | 123,569 |
| Demolition Contractors Fee | | 496,988 | 496,988 |
| Sub-Total | | | 5,797,909 |
| Contingency | | | 884,376 |
| Project Total (before scrap credit) | | | 6,682,285 |
| Scrap Credit | (329,908) | - | (329,908) |
| Project Total | | | 6,352,377 |

TABLE 5.1g
HIGH BRIDGE STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 7 | Unit 8 | Unit 9 | Common | Station | Station Total |
|--|---------------|---------------|---------------|---------------|----------------|----------------------|
| High Bridge Unit Rating (MWe) | 185 | 185 | 236 | | | 606 |
| Characterization / Temporary Services | 79,000 | 79,000 | 97,000 | - | 201,606 | 456,606 |
| Equipment Removal | 1,393,993 | 1,393,993 | 1,452,905 | 364,947 | | 4,605,839 |
| Boiler(s) | - | - | - | - | | 0 |
| Structures Demolition | 1,109,013 | 1,109,013 | 1,777,707 | 541,872 | | 4,537,604 |
| Backfill / Grade / Landscaping / Well Closure | 327,086 | 327,086 | 801,030 | 187,777 | 100,000 | 1,742,979 |
| Utility Management / Oversight | | | | | 1,618,917 | 1,618,917 |
| Demolition Contractor Management / Supervisory / Safety Staff | | | | | 1,654,047 | 1,654,047 |
| Security | | | | | 208,222 | 208,222 |
| Property Taxes | - | - | - | - | - | 0 |
| Project Expenses | | | | | | |
| Shared Heavy Equipment / Operating Engineers | | | | | 1,526,730 | 1,526,730 |
| Small Tool Allowance | 58,182 | 58,182 | 82,573 | 21,892 | n/a | 220,828 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | | | 31,979 | 31,979 |
| Permits | | | | | 184,708 | 184,708 |
| Demolition Contractors Insurance | | | | | 434,626 | 434,626 |
| Demolition Contractors Fee | | | | | 1,717,737 | 1,717,737 |
| Sub-Total | | | | | | 18,940,824 |
| Contingency | | | | | | 2,841,124 |
| Project Total (before scrap credit) | | | | | | 21,781,947 |
| Scrap Credit | (1,418,437) | (1,418,437) | (1,846,014) | (115,711) | - | (4,798,599) |
| Project Total | | | | | | 16,983,348 |

TABLE 5.1j
MAPLEWOOD GAS PLANT
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Station | Station Total |
|--|---------------|----------------|----------------------|
| Maplewood Unit Rating (MWe) | 0 | | 0 |
| Characterization / Temporary Services | 25,000 | 100,803 | 125,803 |
| Equipment Removal | 1,362,397 | | 1,362,397 |
| Structures Demolition | 116,305 | | 116,305 |
| Grade / Landscaping | 161,005 | - | 161,005 |
| Utility Management / Oversight | | 871,780 | 871,780 |
| Demolition Contractor Management / Supervisory / Safety Staff | | 550,634 | 550,634 |
| Security | | 194,084 | 194,084 |
| Property Taxes | - | - | 0 |
| Project Expenses | | | |
| Shared Heavy Equipment / Operating Engineers | | 863,495 | 863,495 |
| Small Tool Allowance | 33,294 | n/a | 33,294 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | 29,807 | 29,807 |
| Permits | | 40,534 | 40,534 |
| Demolition Contractors Insurance | | 95,379 | 95,379 |
| Demolition Contractors Fee | | 353,503 | 353,503 |
| Sub-Total | | | 4,798,021 |
| Contingency | | | 719,703 |
| Project Total (before scrap credit) | | | 5,517,724 |
| Scrap Credit | (404,310) | - | (404,310) |
| Project Total | | | 5,113,414 |

TABLE 5.1k
MINNESOTA VALLEY STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Unit 2 | Unit 3 | Common | Station | Station Total |
|--|---------------|---------------|---------------|---------------|----------------|----------------------|
| Minnesota Valley Unit Rating (MWe) | 0 | 0 | 0 | | | 0 |
| Characterization / Temporary Services | 34,000 | 34,000 | 48,000 | | 403,212 | 519,212 |
| Worker Access | - | - | 187,086 | - | | 187,086 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 166,967 | 166,967 | 166,967 | - | | 500,900 |
| Asbestos / Lead Paint Remediation | 124,640 | 124,640 | 3,326,742 | - | | 3,576,022 |
| Equipment Removal | 353,302 | 353,302 | 2,157,358 | - | | 2,863,962 |
| Boiler(s) | 255,835 | 255,835 | 681,615 | - | | 1,193,285 |
| Structures Demolition | 756,380 | 756,380 | 2,059,095 | 300,078 | | 3,871,934 |
| Backfill / Grade / Landscaping / Well Closure | 415,645 | 415,645 | 396,692 | 104,790 | 100,000 | 1,432,771 |
| Utility Management / Oversight | | | | | 1,979,405 | 1,979,405 |
| Demolition Contractor Management / Supervisory / Safety Staff | | | | | 2,196,028 | 2,196,028 |
| Security | | | | | 298,195 | 298,195 |
| Property Taxes | - | - | - | - | - | 0 |
| Project Expenses | | | | | | |
| Shared Heavy Equipment / Operating Engineers | | | | | 2,010,686 | 2,010,686 |
| Small Tool Allowance | 38,796 | 38,796 | 177,132 | 8,097 | n/a | 262,821 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | | | 45,797 | 45,797 |
| Permits | | | | | 233,256 | 233,256 |
| Demolition Contractors Insurance | | | | | 548,864 | 548,864 |
| Demolition Contractors Fee | | | | | 2,155,825 | 2,155,825 |
| Sub-Total | | | | | | 23,876,048 |
| Contingency | | | | | | 3,939,009 |
| Project Total (before scrap credit) | | | | | | 27,815,058 |
| Scrap Credit | (1,232,488) | (1,232,488) | (2,840,688) | (1,738) | - | (5,307,403) |
| Project Total | | | | | | 22,507,655 |

TABLE 5.11
RED WING STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Unit 2 | Common | Station | Station Total |
|--|---------------|---------------|---------------|----------------|----------------------|
| Red Wing Unit Rating (MWe) | 9 | 9 | | | 18 |
| Characterization / Temporary Services | 34,000 | 34,000 | - | 403,212 | 471,212 |
| Worker Access | 61,694 | 61,694 | - | | 123,388 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 257,800 | 257,800 | - | | 515,600 |
| Asbestos / Lead Paint Remediation | 721,939 | 721,939 | - | | 1,443,877 |
| Equipment Removal | 780,906 | 780,906 | 468,918 | | 2,030,731 |
| Boiler(s) | 270,092 | 270,092 | - | | 540,184 |
| Structures Demolition | 731,187 | 731,187 | 1,042,878 | | 2,505,253 |
| Backfill / Grade / Landscaping / Well Closure | 215,931 | 215,931 | 547,677 | 100,000 | 1,079,539 |
| Ash Landfills / Ash Ponds & Landfills Inculding Evaporation Ponds | | | 457,152 | | 457,152 |
| Utility Management / Oversight | | | | 1,119,169 | 1,119,169 |
| Demolition Contractor Management / Supervisory / Safety Staff | | | | 1,130,906 | 1,130,906 |
| Security | | | | 272,488 | 272,488 |
| Property Taxes | - | - | - | - | 0 |
| Project Expenses | | | | | |
| Shared Heavy Equipment / Operating Engineers | | | | 1,209,872 | 1,209,872 |
| Small Tool Allowance | 56,315 | 56,315 | 41,189 | n/a | 153,819 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | | 41,849 | 41,849 |
| Permits | | | | 146,292 | 146,292 |
| Demolition Contractors Insurance | | | | 344,233 | 344,233 |
| Demolition Contractors Fee | | | | 1,382,875 | 1,382,875 |
| Sub-Total | | | | | 14,968,441 |
| Contingency | | | | | 2,389,654 |
| Project Total (before scrap credit) | | | | | 17,358,094 |
| Scrap Credit | (662,363) | (662,363) | (484,203) | - | (1,808,929) |
| Project Total | | | | | 15,549,165 |

TABLE 5.1n
SHERBURNE COUNTY STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Unit 2 | Unit 3 | Common | Station | Station Total |
|---|---------------|---------------|---------------|---------------|----------------|----------------------|
| Sherburne County Unit Rating (MWe) | 680 | 682 | 876 | | | 2238 |
| Characterization / Temporary Services | 171,000 | 171,000 | 190,000 | - | 604,818 | 1,136,818 |
| Worker Access | 642,334 | 642,334 | 703,642 | - | | 1,988,310 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 1,081,050 | 1,081,050 | 1,081,050 | - | | 3,243,150 |
| Asbestos Remediation | 2,508,884 | 2,508,884 | - | 500,000 | | 5,517,768 |
| Equipment Removal | 5,699,637 | 5,547,162 | 6,568,928 | 4,670,760 | | 22,486,487 |
| Boiler(s) | 4,182,168 | 4,182,168 | 4,619,900 | - | | 12,984,236 |
| Turbine Generator & Condensor | 609,899 | 609,899 | 686,634 | | | 1,906,432 |
| Exhaust Gas Treatment Equipment and Structures | 4,245,955 | 4,398,430 | 4,741,985 | | | 13,386,370 |
| Structures Demolition | 7,038,228 | 7,038,228 | 7,657,026 | 6,378,958 | | 28,112,441 |
| Backfill / Grade / Landscaping / Well Closure | 1,656,105 | 1,656,105 | 1,814,172 | 4,761,063 | 100,000 | 9,987,445 |
| Coal Yard Closure | | | | 8,264,365 | | 8,264,365 |
| Ash Landfills / Ash Ponds & Landfills Including Evaporation Ponds / Ash Pond Dewatering | | | 3,169,905 | 20,754,000 | | 23,923,905 |
| Utility Management / Oversight | 1,079,289 | 1,079,289 | 1,208,276 | 494,016 | | 3,860,869 |
| Demolition Contractor Management / Supervisory / Safety Staff | 1,713,520 | 1,713,520 | 1,918,305 | 784,319 | | 6,129,664 |
| Security | 317,316 | 317,316 | 355,239 | 145,243 | | 1,135,113 |
| Property Taxes | - | - | - | - | - | 0 |
| Project Expenses | | | | | | |
| Shared Heavy Equipment / Operating Engineers | 1,544,579 | 1,544,579 | 1,729,174 | 706,991 | | 5,525,323 |
| Small Tool Allowance | 535,084 | 535,084 | 539,646 | 326,216 | n/a | 1,936,030 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | | | 76,789 | 76,789 |
| Permits | | | | | 1,832,569 | 1,832,569 |
| Demolition Contractors Insurance | | | | | 4,312,127 | 4,312,127 |
| Demolition Contractors Fee | | | | | 18,327,570 | 18,327,570 |
| Sub-Total | | | | | | 176,073,780 |
| Contingency | | | | | | 26,962,844 |
| Project Total (before scrap credit) | | | | | | 203,036,624 |
| Scrap Credit | (9,982,485) | (9,982,485) | (12,096,244) | (2,619,893) | - | (34,681,107) |
| Project Total | | | | | | 168,355,517 |

TABLE 5.1o
SIBLEY GAS PLANT
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Station | Station Total |
|--|---------------|----------------|----------------------|
| Sibley Unit Rating (MWe) | 0 | | 0 |
| Characterization / Temporary Services | 25,000 | 100,803 | 125,803 |
| Equipment Removal | 1,129,907 | | 1,129,907 |
| Structures Demolition | 84,384 | | 84,384 |
| Grade / Landscaping | 164,731 | - | 164,731 |
| Utility Management / Oversight | | 839,852 | 839,852 |
| Demolition Contractor Management / Supervisory / Safety Staff | | 499,554 | 499,554 |
| Security | | 177,374 | 177,374 |
| Property Taxes | - | - | 0 |
| Project Expenses | | | |
| Shared Heavy Equipment / Operating Engineers | | 781,061 | 781,061 |
| Small Tool Allowance | 28,080 | n/a | 28,080 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | 27,241 | 27,241 |
| Permits | | 35,510 | 35,510 |
| Demolition Contractors Insurance | | 83,556 | 83,556 |
| Demolition Contractors Fee | | 307,534 | 307,534 |
| Sub-Total | | | 4,284,587 |
| Contingency | | | 642,688 |
| Project Total (before scrap credit) | | | 4,927,275 |
| Scrap Credit | (338,307) | - | (338,307) |
| Project Total | | | 4,588,968 |

TABLE 5.1p
WESCOTT GAS PLANT
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Station | Station Total |
|--|---------------|----------------|----------------------|
| Wescott Unit Rating (MWe) | 0 | | 0 |
| Characterization / Temporary Services | 25,000 | 134,404 | 159,404 |
| Equipment Removal | 4,647,516 | | 4,647,516 |
| Structures Demolition | 763,648 | | 763,648 |
| Grade / Landscaping | 756,289 | - | 756,289 |
| Utility Management / Oversight | | 1,003,663 | 1,003,663 |
| Demolition Contractor Management / Supervisory / Safety Staff | | 1,028,973 | 1,028,973 |
| Security | | 227,502 | 227,502 |
| Property Taxes | - | - | 0 |
| Project Expenses | | | |
| Shared Heavy Equipment / Operating Engineers | | 1,028,362 | 1,028,362 |
| Small Tool Allowance | 123,849 | n/a | 123,849 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | 34,940 | 34,940 |
| Permits | | 106,787 | 106,787 |
| Demolition Contractors Insurance | | 251,276 | 251,276 |
| Demolition Contractors Fee | | 984,009 | 984,009 |
| Sub-Total | | | 11,116,217 |
| Contingency | | | 1,667,433 |
| Project Total (before scrap credit) | | | 12,783,650 |
| Scrap Credit | (1,541,232) | - | (1,541,232) |
| Project Total | | | 11,242,417 |

TABLE 5.1q
WILMARTH STATION
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

| Activities | Unit 1 | Unit 2 | Common | Station | Station Total |
|--|---------------|---------------|---------------|----------------|----------------------|
| Wilmarth Unit Rating (MWe) | 9 | 9 | | | 18 |
| Characterization / Temporary Services | 34,000 | 34,000 | - | 403,000 | 471,000 |
| Worker Access | 61,694 | 61,694 | - | | 123,388 |
| Pre-Demolition Cleaning (Boiler / Precipitator / Tanks) | 257,800 | 257,800 | - | | 515,600 |
| Asbestos / Lead Paint Remediation | 721,939 | 721,939 | - | | 1,443,877 |
| Equipment Removal | 780,906 | 780,906 | 184,689 | | 1,746,502 |
| Boiler(s) | 420,643 | 420,643 | - | | 841,285 |
| Structures Demolition | 626,917 | 626,917 | 745,744 | | 1,999,579 |
| Backfill / Grade / Landscaping / Well Closure | 217,690 | 217,690 | 245,389 | 100,000 | 780,770 |
| Ash Landfills | | | 1,400,239 | | 1,400,239 |
| Utility Management / Oversight | | | | 1,119,169 | 1,119,169 |
| Demolition Contractor Management / Supervisory / Safety Staff | | | | 1,130,906 | 1,130,906 |
| Security | | | | 272,488 | 272,488 |
| Property Taxes | - | - | - | - | 0 |
| Project Expenses | | | | | |
| Shared Heavy Equipment / Operating Engineers | | | | 1,209,872 | 1,209,872 |
| Small Tool Allowance | 57,276 | 57,276 | 23,516 | n/a | 138,068 |
| Utilities Allowance (Office Equip & supplies / Telephone, Electric etc.) | | | | 41,849 | 41,849 |
| Permits | | | | 148,037 | 148,037 |
| Demolition Contractors Insurance | | | | 348,338 | 348,338 |
| Demolition Contractors Fee | | | | 1,401,050 | 1,401,050 |
| Sub-Total | | | | | 15,132,016 |
| Contingency | | | | | 2,414,190 |
| Project Total (before scrap credit) | | | | | 17,546,206 |
| Scrap Credit | (737,645) | (737,645) | (167,478) | - | (1,642,767) |
| Project Total | | | | | 15,903,439 |

5.2 WIND FARMS

An estimate for dismantling each of the Xcel Energy wind farm generating stations in Minnesota and North Dakota was developed by applying the system and structures inventories against the associated unit cost factors and accounting for program support costs. A summary of each wind farm's major cost categories is presented in Table 5.2. Breakdowns of the major cost categories by wind farm are provided in Tables 5.2a through 5.2p. Note that columns may not total due to rounding.

The following is an explanation of the contents of each line item in these tables:

TURBINE SITE REMOVAL

Dismantle Wind Turbine Generators – The cost associated with removal of the nacelle, hub, blades and tower. Also included is a percentage of the utility, DOC, and security staffing, miscellaneous expenses, and site characterization costs.

Haul Off of Materials (Trucking/Rail) – The cost associated with the transportation of the scrap material.

Foundation Removal – The cost of removal of the WTG concrete foundation or in the 48-inch scenario, the pedestal removal.

Crane Mobilization & Demobilization – All heavy equipment costs.

SITE CIVIL WORK REMOVAL

Balance of Site Civil Work Removals – The cost associated with backfilling below grade voids, and grading and landscaping the grounds to preclude erosion of soils. Also included is a percentage of the utility, DOC, and security staffing, miscellaneous expenses and site characterization costs.

COLLECTION SYSTEM REMOVAL

Remove Collection Cable, Remove Junction Boxes & Turbine Switchgears – The cost associated with excavation of the cable and back-fill of the trench. Also included is a percentage of the utility, DOC, and security staffing, miscellaneous expenses and site characterization costs.

Contingency (15%) - The cost to cover expenses for unforeseen events that are likely to occur.

Approximate scrap value of components – A credit to the project for the recovery of scrap metals. This corresponds to value shown in Table 4.3b through 4.3c.

TABLE 5.2
SUMMARY OF ACTIVITY COSTS – WIND FARMS
(2019 Dollars)

| ITEM | DESCRIPTION | Blazing Star I | Blazing Star I (48 in.) | Border Winds Project | Border Winds Project (48 in.) | Courtenay | Courtenay (48 in.) | Foxtail | Foxtail (48 in.) | Grand Meadow | Grand Meadow (48 in.) | Lake Benton II | Lake Benton II (48 in.) | Nobles | Nobles (48 in.) | Pleasant Valley | Pleasant Valley (48 in.) | Complete Removal | Removal (to to 48" depth) | | |
|------|---|---------------------|-------------------------|----------------------|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|---------------------|-------------------------|---------------------|---------------------|---------------------|--------------------------|------------------|---------------------------|----------------------|----------------------|
| | | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | ITEM | |
| 1 | TURBINE SITE REMOVAL | | | | | | | | | | | | | | | | | | | | |
| 1a | Dismantle Wind Turbine Generators - Model 1 | \$1,392,653 | \$1,437,495 | \$11,136,713 | \$11,604,079 | \$13,597,829 | \$13,970,467 | \$993,756 | \$1,025,000 | \$10,279,573 | \$10,906,283 | \$804,060 | \$837,777 | \$18,641,078 | \$19,146,628 | \$15,900,269 | \$16,381,957 | | | \$72,745,929 | \$75,309,687 |
| | Dismantle Wind Turbine Generators - Model 2 | \$12,625,322 | \$13,028,894 | \$0 | \$0 | \$0 | \$0 | \$9,723,737 | \$10,027,257 | \$0 | \$0 | \$6,529,184 | \$6,792,178 | \$0 | \$0 | \$0 | \$0 | | | \$28,878,242 | \$29,848,328 |
| 1b | Haul Off of Materials (Trucking/Rail) | \$3,053,850 | \$2,643,300 | \$1,769,707 | \$1,462,533 | \$2,568,667 | \$2,158,116 | \$2,353,658 | \$1,987,602 | \$2,336,369 | \$2,072,402 | \$1,608,528 | \$1,391,969 | \$4,017,223 | \$3,339,613 | \$2,713,931 | \$2,285,819 | | | \$20,421,933 | \$17,341,355 |
| 1c | Foundation Removal - Model 1 | \$609,370 | \$73,272 | \$5,263,779 | \$585,008 | \$6,704,742 | \$801,686 | \$465,755 | \$54,629 | \$3,416,996 | \$525,128 | \$302,318 | \$37,728 | \$7,736,964 | \$1,012,965 | \$6,787,708 | \$792,287 | | | \$31,287,631 | \$3,882,702 |
| | Foundation Removal - Model 2 | \$5,484,331 | \$659,444 | \$0 | \$0 | \$0 | \$0 | \$4,524,475 | \$530,685 | \$0 | \$0 | \$2,358,079 | \$294,280 | \$0 | \$0 | \$0 | \$0 | | | \$12,366,885 | \$1,484,409 |
| 1d | Crane Mobilization & Demobilization | \$1,998,541 | \$1,903,425 | \$2,417,050 | \$2,283,888 | \$1,954,154 | \$1,846,356 | \$1,522,963 | \$1,453,212 | \$2,201,454 | \$2,138,044 | \$1,015,680 | \$977,633 | \$1,947,813 | \$1,871,720 | \$2,150,726 | \$2,061,951 | | | \$15,208,380 | \$14,536,230 |
| | SUBTOTAL | \$25,164,068 | \$19,745,830 | \$20,587,249 | \$15,935,508 | \$24,825,391 | \$18,776,625 | \$19,584,343 | \$15,078,385 | \$18,234,392 | \$15,641,858 | \$12,617,848 | \$10,331,565 | \$32,343,078 | \$25,370,926 | \$27,552,633 | \$21,522,014 | | | \$180,909,001 | \$142,402,711 |
| 2 | SITE CIVIL WORK REMOVAL | | | | | | | | | | | | | | | | | | | | |
| 2a | Balance of Site Civil Work Removals | \$10,397,806 | \$10,084,299 | \$8,909,810 | \$8,622,688 | \$11,048,476 | \$10,695,312 | \$8,406,384 | \$8,171,092 | \$7,490,034 | \$7,343,033 | \$4,848,790 | \$4,759,976 | \$13,434,084 | \$13,038,736 | \$10,584,412 | \$10,237,618 | | | \$75,119,796 | \$72,952,756 |
| | SUBTOTAL | \$10,397,806 | \$10,084,299 | \$8,909,810 | \$8,622,688 | \$11,048,476 | \$10,695,312 | \$8,406,384 | \$8,171,092 | \$7,490,034 | \$7,343,033 | \$4,848,790 | \$4,759,976 | \$13,434,084 | \$13,038,736 | \$10,584,412 | \$10,237,618 | | | \$75,119,796 | \$72,952,756 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | | | | | | | | | | | | | | | | | |
| 3a | Remove MV Collection Cable | \$2,023,676 | \$408,958 | \$1,933,366 | \$397,071 | \$2,050,705 | \$407,251 | \$1,609,155 | \$324,523 | \$1,697,809 | \$366,382 | \$1,054,685 | \$221,763 | \$2,399,425 | \$479,044 | \$2,165,432 | \$438,778 | | | \$14,934,254 | \$3,043,769 |
| 3b | Remove Junction Boxes & Turbine Switchgears | \$313,937 | \$31,394 | \$248,574 | \$24,857 | \$331,432 | \$33,143 | \$248,574 | \$24,857 | \$210,338 | \$21,034 | \$138,132 | \$13,813 | \$420,675 | \$42,068 | \$313,937 | \$31,394 | | | \$2,225,597 | \$222,560 |
| | SUBTOTAL | \$2,337,613 | \$440,352 | \$2,181,939 | \$421,928 | \$2,382,137 | \$440,394 | \$1,857,729 | \$349,380 | \$1,908,147 | \$387,416 | \$1,192,817 | \$235,576 | \$2,820,100 | \$521,112 | \$2,479,368 | \$470,172 | | | \$17,159,851 | \$3,266,329 |
| | SITE SUBTOTAL | \$37,899,487 | \$30,270,481 | \$31,678,997 | \$24,980,125 | \$38,256,004 | \$29,912,331 | \$29,848,456 | \$23,598,856 | \$27,632,572 | \$23,372,307 | \$18,659,455 | \$15,327,118 | \$48,597,262 | \$38,930,775 | \$40,616,414 | \$32,229,804 | | | \$273,188,648 | \$218,621,796 |
| | CONTINGENCY (15%) | \$5,684,923 | \$4,540,572 | \$4,751,850 | \$3,747,019 | \$5,738,401 | \$4,486,850 | \$4,477,268 | \$3,539,828 | \$4,144,886 | \$3,505,846 | \$2,798,918 | \$2,299,068 | \$7,289,589 | \$5,839,616 | \$6,092,462 | \$4,834,471 | | | \$40,978,297 | \$32,793,269 |
| | Project Total (before scrap credit) | \$43,584,410 | \$34,811,053 | \$36,430,847 | \$28,727,143 | \$43,994,405 | \$34,399,181 | \$34,325,724 | \$27,138,685 | \$31,777,458 | \$26,878,153 | \$21,458,374 | \$17,626,185 | \$55,886,851 | \$44,770,391 | \$46,708,876 | \$37,064,275 | | | \$314,166,945 | \$251,415,066 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | (\$8,818,650) | (\$6,449,499) | (\$5,456,601) | (\$3,681,527) | (\$7,680,961) | (\$5,311,810) | (\$6,767,995) | (\$4,850,452) | (\$6,741,282) | (\$5,180,812) | (\$4,628,964) | (\$3,429,286) | (\$12,298,196) | (\$8,815,111) | (\$7,970,541) | (\$5,558,899) | | | (\$60,363,190) | (\$43,277,397) |
| | TOTAL PRICE | \$34,765,760 | \$28,361,555 | \$30,974,246 | \$25,045,616 | \$36,313,443 | \$29,087,370 | \$27,557,729 | \$22,288,232 | \$25,036,176 | \$21,697,340 | \$16,829,410 | \$14,196,899 | \$43,588,656 | \$35,955,280 | \$38,738,336 | \$31,505,376 | | | \$253,803,755 | \$208,137,669 |

Note: Model 1 and Model 2 designate the two Models of WTG at Blazing Star I, Foxtail, and Lake Benton II.

TABLE 5.2a
Blazing Star I Wind Farm

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Blazing Star I | | | | | |
|----------------|---|----------------------|------|--------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V110 | 10 | EA | \$139,265 | \$1,392,653 |
| | Dismantle Wind Turbine Generators - V120 | 90 | EA | \$140,281 | \$12,625,322 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 30,539 | \$3,053,850 |
| 1c | Foundation Removal - V110 | 10 | EA | \$60,937 | \$609,370 |
| | Foundation Removal - V120 | 90 | EA | \$60,937 | \$5,484,331 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,998,541 | \$1,998,541 |
| | | SUBTOTAL | | | \$25,164,068 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$10,397,806 | \$10,397,806 |
| | | SUBTOTAL | | | \$10,397,806 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$2,023,676 | \$2,023,676 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$313,937 | \$313,937 |
| | | SUBTOTAL | | | \$2,337,613 |
| | | SITE SUBTOTAL | | | \$37,899,487 |
| | CONTINGENCY (15%) | | | | \$5,684,923 |
| | Project Total (before scrap credit) | | | | \$43,584,410 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$8,818,650) |
| | TOTAL PRICE | | | | \$34,765,760 |

TABLE 5.2b
Blazing Star I Wind Farm
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

Blazing Star I (48 in.)

| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|------|---|----------------------|------|--------------|---------------------|
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V110 | 10 | EA | \$143,749 | \$1,437,495 |
| | Dismantle Wind Turbine Generators - V120 | 90 | EA | \$144,765 | \$13,028,894 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 26,433 | \$2,643,300 |
| 1c | Foundation Removal V110 | 10 | EA | \$7,327 | \$73,272 |
| | Foundation Removal V120 | 90 | EA | \$7,327 | \$659,444 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,903,425 | \$1,903,425 |
| | | SUBTOTAL | | | \$19,745,830 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$10,084,299 | \$10,084,299 |
| | | SUBTOTAL | | | \$10,084,299 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$408,958 | \$408,958 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$31,394 | \$31,394 |
| | | SUBTOTAL | | | \$440,352 |
| | | SITE SUBTOTAL | | | \$30,270,481 |
| | CONTINGENCY (15%) | | | | \$4,540,572 |
| | Project Total (before scrap credit) | | | | \$34,811,053 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$6,449,499) |
| | TOTAL PRICE | | | | \$28,361,555 |

TABLE 5.2c
Border Winds Project

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Border Winds Project | | | | | |
|-----------------------------|---|----------------------|-------------|-------------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators V100.20 | 75 | EA | \$148,490 | \$11,136,713 |
| 1b | Haul Off of Materials (Trucking/Rail) | 75 | EA | 23,596 | \$1,769,707 |
| 1c | Foundation Removal V100.20 | 75 | EA | \$70,184 | \$5,263,779 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,417,050 | \$2,417,050 |
| | | SUBTOTAL | | | \$20,587,249 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$8,909,810 | \$8,909,810 |
| | | SUBTOTAL | | | \$8,909,810 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$1,933,366 | \$1,933,366 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$248,574 | \$248,574 |
| | | SUBTOTAL | | | \$2,181,939 |
| | | SITE SUBTOTAL | | | \$31,678,997 |
| | CONTINGENY (15%) | | | | \$4,751,850 |
| | Project Total (before scrap credit) | | | | \$36,430,847 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$5,456,601) |
| TOTAL PRICE | | | | | \$30,974,246 |

TABLE 5.2d
Border Winds Project
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Border Winds Project (48 in.) | | | | | |
|--------------------------------------|--|----------------------|-------------|-------------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V100-2.0 | 75 | EA | \$154,721 | \$11,604,079 |
| 1b | Haul Off of Materials (Trucking/Rail) | 75 | EA | 19,500 | \$1,462,533 |
| 1c | Foundation Removal - V100-2.0 | 75 | EA | \$7,800 | \$585,008 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,283,888 | \$2,283,888 |
| | | SUBTOTAL | | | \$15,935,508 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$8,622,688 | \$8,622,688 |
| | | SUBTOTAL | | | \$8,622,688 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$397,071 | \$397,071 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$24,857 | \$24,857 |
| | | SUBTOTAL | | | \$421,928 |
| | | SITE SUBTOTAL | | | \$24,980,125 |
| | CONTINGENCY (15%) | | | | \$3,747,019 |
| | Project Total (before scrap credit) | | | | \$28,727,143 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$3,681,527) |
| TOTAL PRICE | | | | | \$25,045,616 |

TABLE 5.2e
Courtenay Wind Farm

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Courtenay | | | | | |
|--------------------|--|----------------------|------|--------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V100-2.0 | 100 | EA | \$135,978 | \$13,597,829 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 25,687 | \$2,568,667 |
| 1c | Foundation Removal - V100-2.0 | 100 | EA | \$67,047 | \$6,704,742 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,954,154 | \$1,954,154 |
| | | SUBTOTAL | | | \$24,825,391 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$11,048,476 | \$11,048,476 |
| | | SUBTOTAL | | | \$11,048,476 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$2,050,705 | \$2,050,705 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$331,432 | \$331,432 |
| | | SUBTOTAL | | | \$2,382,137 |
| | | SITE SUBTOTAL | | | \$38,256,004 |
| | CONTINGENCY (15%) | | | | \$5,738,401 |
| | Project Total (before scrap credit) | | | | \$43,994,405 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$7,680,961) |
| TOTAL PRICE | | | | | \$36,313,443 |

TABLE 5.2f
Courtenay Wind Farm
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

Courtenay (48 in.)

| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|------|--|----------------------|------|--------------|---------------------|
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V100-2.0 | 100 | EA | \$139,705 | \$13,970,467 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 21,581 | \$2,158,116 |
| 1c | Foundation Removal - V100-2.0 | 100 | EA | \$8,017 | \$801,686 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,846,356 | \$1,846,356 |
| | | SUBTOTAL | | | \$18,776,625 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$10,695,312 | \$10,695,312 |
| | | SUBTOTAL | | | \$10,695,312 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$407,251 | \$407,251 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$33,143 | \$33,143 |
| | | SUBTOTAL | | | \$440,394 |
| | | SITE SUBTOTAL | | | \$29,912,331 |
| | CONTINGENCY (15%) | | | | \$4,486,850 |
| | Project Total (before scrap credit) | | | | \$34,399,181 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$5,311,810) |
| | TOTAL PRICE | | | | \$29,087,370 |

TABLE 5.2g
Foxtail Wind Farm

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| | | | | | | Foxtail |
|--------------------|---|----------------------|------|-------------|---------------------|---------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT | |
| 1 | TURBINE SITE REMOVAL | | | | | |
| | | | | | | |
| 1a | Dismantle Wind Turbine Generators - V110 | 7 | EA | \$141,965 | \$993,756 | |
| | Dismantle Wind Turbine Generators - V120 | 68 | EA | \$142,996 | \$9,723,737 | |
| | | | | | | |
| 1b | Haul Off of Materials (Trucking/Rail) | 75 | EA | 31,382 | \$2,353,658 | |
| | | | | | | |
| | | | | | | |
| 1c | Foundation Removal - V110 | 7 | EA | \$66,536 | \$465,755 | |
| | Foundation Removal - V120 | 68 | EA | \$66,536 | \$4,524,475 | |
| | | | | | | |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,522,963 | \$1,522,963 | |
| | | SUBTOTAL | | | \$19,584,343 | |
| 2 | SITE CIVIL WORK REMOVAL | | | | | |
| | | | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$8,406,384 | \$8,406,384 | |
| | | | | | | |
| | | SUBTOTAL | | | \$8,406,384 | |
| 3 | COLLECTION SYSTEM REMOVAL | | | | | |
| | | | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$1,609,155 | \$1,609,155 | |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$248,574 | \$248,574 | |
| | | | | | | |
| | | SUBTOTAL | | | \$1,857,729 | |
| | | SITE SUBTOTAL | | | \$29,848,456 | |
| | CONTINGENCY (15%) | | | | \$4,477,268 | |
| | Project Total (before scrap credit) | | | | \$34,325,724 | |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$6,767,995) | |
| | | | | | | |
| TOTAL PRICE | | | | | \$27,557,729 | |

TABLE 5.2h
Foxtail Wind Farm
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Foxtail (48 in.) | | | | | |
|------------------|---|----------------------|------|-------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V110 | 7 | EA | \$146,429 | \$1,025,000 |
| | Dismantle Wind Turbine Generators - V120 | 68 | EA | \$147,460 | \$10,027,257 |
| 1b | Haul Off of Materials (Trucking/Rail) | 75 | EA | 26,501 | \$1,987,602 |
| 1c | Foundation Removal - V110 | 7 | EA | \$7,804 | \$54,629 |
| | Foundation Removal - V120 | 68 | EA | \$7,804 | \$530,685 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,453,212 | \$1,453,212 |
| | | SUBTOTAL | | | \$15,078,385 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$8,171,092 | \$8,171,092 |
| | | SUBTOTAL | | | \$8,171,092 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$324,523 | \$324,523 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$24,857 | \$24,857 |
| | | SUBTOTAL | | | \$349,380 |
| | | SITE SUBTOTAL | | | \$23,598,856 |
| | CONTINGENCY (15%) | | | | \$3,539,828 |
| | Project Total (before scrap credit) | | | | \$27,138,685 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$4,850,452) |
| | TOTAL PRICE | | | | \$22,288,232 |

TABLE 5.2i
Grand Meadow Wind

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Grand Meadow | | | | | |
|--------------------|--|----------------------|------|-------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - GE1.5-77 | 67 | EA | \$153,426 | \$10,279,573 |
| 1b | Haul Off of Materials (Trucking/Rail) | 67 | EA | 34,871 | \$2,336,369 |
| 1c | Foundation Removal - GE1.5-77 | 67 | EA | \$51,000 | \$3,416,996 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,201,454 | \$2,201,454 |
| | | SUBTOTAL | | | \$18,234,392 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$7,490,034 | \$7,490,034 |
| | | SUBTOTAL | | | \$7,490,034 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$1,697,809 | \$1,697,809 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$210,338 | \$210,338 |
| | | SUBTOTAL | | | \$1,908,147 |
| | | SITE SUBTOTAL | | | \$27,632,572 |
| | CONTINGENCY (15%) | | | | \$4,144,886 |
| | Project Total (before scrap credit) | | | | \$31,777,458 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$6,741,282) |
| TOTAL PRICE | | | | | \$25,036,176 |

TABLE 5.2j
Grand Meadow Wind
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Grand Meadow (48 in.) | | | | | |
|----------------------------------|--|----------------------|-------------|-------------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - GE1.5-77 | 67 | EA | \$162,780 | \$10,906,283 |
| 1b | Haul Off of Materials (Trucking/Rail) | 67 | EA | 30,931 | \$2,072,402 |
| 1c | Foundation Removal - GE1.5-77 | 67 | EA | \$7,838 | \$525,128 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,138,044 | \$2,138,044 |
| | | SUBTOTAL | | | \$15,641,858 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$7,343,033 | \$7,343,033 |
| | | SUBTOTAL | | | \$7,343,033 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$366,382 | \$366,382 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$21,034 | \$21,034 |
| | | SUBTOTAL | | | \$387,416 |
| | | SITE SUBTOTAL | | | \$23,372,307 |
| | CONTINGENY (15%) | | | | \$3,505,846 |
| | Project Total (before scrap credit) | | | | \$26,878,153 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$5,180,812) |
| TOTAL PRICE | | | | | \$21,697,340 |

TABLE 5.2k
Lake Benton II Wind

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Lake Benton II | | | | | |
|--------------------|---|----------------------|------|-------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - GE2.1-116 | 5 | EA | \$160,812 | \$804,060 |
| | Dismantle Wind Turbine Generators - GE2.3-116 | 39 | EA | \$167,415 | \$6,529,184 |
| 1b | Haul Off of Materials (Trucking/Rail) | 44 | EA | 36,557 | \$1,608,528 |
| 1c | Foundation Removal - GE2.1-116 | 5 | EA | \$60,464 | \$302,318 |
| | Foundation Removal - GE2.3-116 | 39 | EA | \$60,464 | \$2,358,079 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,015,680 | \$1,015,680 |
| | | SUBTOTAL | | | \$12,617,848 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$4,848,790 | \$4,848,790 |
| | | SUBTOTAL | | | \$4,848,790 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$1,054,685 | \$1,054,685 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$138,132 | \$138,132 |
| | | SUBTOTAL | | | \$1,192,817 |
| | | SITE SUBTOTAL | | | \$18,659,455 |
| | CONTINGENCY (15%) | | | | \$2,798,918 |
| | Project Total (before scrap credit) | | | | \$21,458,374 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$4,628,964) |
| TOTAL PRICE | | | | | \$16,829,410 |

TABLE 5.21
Lake Benton II Wind
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Lake Benton II (48 in.) | | | | | |
|-------------------------|---|----------------------|------|-------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - GE2.1-116 | 5 | EA | \$167,555 | \$837,777 |
| | Dismantle Wind Turbine Generators - GE2.3-116 | 39 | EA | \$174,158 | \$6,792,178 |
| 1b | Haul Off of Materials (Trucking/Rail) | 44 | EA | 31,636 | \$1,391,969 |
| 1c | Foundation Removal - GE2.1-116 | 5 | EA | \$7,546 | \$37,728 |
| | Foundation Removal - GE2.3-116 | 39 | EA | \$7,546 | \$294,280 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$977,633 | \$977,633 |
| | | SUBTOTAL | | | \$10,331,565 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$4,759,976 | \$4,759,976 |
| | | SUBTOTAL | | | \$4,759,976 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$221,763 | \$221,763 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$13,813 | \$13,813 |
| | | SUBTOTAL | | | \$235,576 |
| | | SITE SUBTOTAL | | | \$15,327,118 |
| | CONTINGENCY (15%) | | | | \$2,299,068 |
| | Project Total (before scrap credit) | | | | \$17,626,185 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$3,429,286) |
| TOTAL PRICE | | | | | \$14,196,899 |

TABLE 5.2m
Nobles Wind Farm

SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| | | | | | | Nobles |
|--------------------|--|----------------------|------|--------------|----------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT | |
| 1 | TURBINE SITE REMOVAL | | | | | |
| 1a | Dismantle Wind Turbine Generators - GE1.5-77 | 134 | EA | \$139,113 | \$18,641,078 | |
| 1b | Haul Off of Materials (Trucking/Rail) | 134 | EA | 29,979 | \$4,017,223 | |
| 1c | Foundation Removal - GE1.5-77 | 134 | EA | \$57,739 | \$7,736,964 | |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,947,813 | \$1,947,813 | |
| | | SUBTOTAL | | | | \$32,343,078 |
| 2 | SITE CIVIL WORK REMOVAL | | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$13,434,084 | \$13,434,084 | |
| | | SUBTOTAL | | | | \$13,434,084 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$2,399,425 | \$2,399,425 | |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$420,675 | \$420,675 | |
| | | SUBTOTAL | | | | \$2,820,100 |
| | | SITE SUBTOTAL | | | | \$48,597,262 |
| | CONTINGENY (15%) | | | | \$7,289,589 | |
| | Project Total (before scrap credit) | | | | \$55,886,851 | |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$12,298,196) | |
| TOTAL PRICE | | | | | | \$43,588,656 |

TABLE 5.2n
Nobles Wind Farm
(Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
(2019 Dollars)

Nobles (48 in.)

| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|------|--|----------------------|------|--------------|---------------------|
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - GE1.5-77 | 134 | EA | \$142,885 | \$19,146,628 |
| 1b | Haul Off of Materials (Trucking/Rail) | 134 | EA | 24,922 | \$3,339,613 |
| 1c | Foundation Removal - GE1.5-77 | 134 | EA | \$7,559 | \$1,012,965 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$1,871,720 | \$1,871,720 |
| | | SUBTOTAL | | | \$25,370,926 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$13,038,736 | \$13,038,736 |
| | | SUBTOTAL | | | \$13,038,736 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$479,044 | \$479,044 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$42,068 | \$42,068 |
| | | SUBTOTAL | | | \$521,112 |
| | | SITE SUBTOTAL | | | \$38,930,775 |
| | CONTINGENCY (15%) | | | | \$5,839,616 |
| | Project Total (before scrap credit) | | | | \$44,770,391 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$8,815,111) |
| | TOTAL PRICE | | | | \$35,955,280 |

TABLE 5.2o
Pleasant Valley Wind Farm
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

| Pleasant Valley | | | | | |
|--------------------|--|----------------------|------|--------------|---------------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V100-2.0 | 100 | EA | \$159,003 | \$15,900,269 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 27,139 | \$2,713,931 |
| 1c | Foundation Removal - V100-2.0 | 100 | EA | \$67,877 | \$6,787,708 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,150,726 | \$2,150,726 |
| | | SUBTOTAL | | | \$27,552,633 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$10,584,412 | \$10,584,412 |
| | | SUBTOTAL | | | \$10,584,412 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$2,165,432 | \$2,165,432 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$313,937 | \$313,937 |
| | | SUBTOTAL | | | \$2,479,368 |
| | | SITE SUBTOTAL | | | \$40,616,414 |
| | CONTINGENCY (15%) | | | | \$6,092,462 |
| | Project Total (before scrap credit) | | | | \$46,708,876 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$7,970,541) |
| TOTAL PRICE | | | | | \$38,738,336 |

TABLE 5.2p
Pleasant Valley Wind Farm
 (Removal to 48 inches)
SUMMARY OF ACTIVITY COSTS
 (2019 Dollars)

Pleasant Valley
 (48 in.)

| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|--------------------|--|----------------------|------|--------------|---------------------|
| 1 | TURBINE SITE REMOVAL | | | | |
| 1a | Dismantle Wind Turbine Generators - V100-2.0 | 100 | EA | \$163,820 | \$16,381,957 |
| 1b | Haul Off of Materials (Trucking/Rail) | 100 | EA | 22,858 | \$2,285,819 |
| 1c | Foundation Removal - V100-2.0 | 100 | EA | \$7,923 | \$792,287 |
| 1d | Crane Mobilization & Demobilization | 1 | LS | \$2,061,951 | \$2,061,951 |
| | | SUBTOTAL | | | \$21,522,014 |
| 2 | SITE CIVIL WORK REMOVAL | | | | |
| 2a | Balance of Site Civil Work Removals | 1 | LS | \$10,237,618 | \$10,237,618 |
| | | SUBTOTAL | | | \$10,237,618 |
| 3 | COLLECTION SYSTEM REMOVAL | | | | |
| 3a | Remove MV Collection Cable | 1 | LS | \$438,778 | \$438,778 |
| 3b | Remove Junction Boxes & Turbine Switchgears | 1 | LS | \$31,394 | \$31,394 |
| | | SUBTOTAL | | | \$470,172 |
| | | SITE SUBTOTAL | | | \$32,229,804 |
| | CONTINGENY (15%) | | | | \$4,834,471 |
| | Project Total (before scrap credit) | | | | \$37,064,275 |
| | APPROXIMATE SCRAP VALUE OF COMPONENTS | | | | (\$5,558,899) |
| TOTAL PRICE | | | | | \$31,505,376 |

6. REFERENCES

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8. 29 CFR Part 1926, Subpart T - Demolition , United States Department of Labor, 2019 <https://www.osha.gov/doc/topics/demolition/index.html>

APPENDIX A
SUMMARY OF STATION SYSTEM AND STRUCTURES INVENTORIES

TABLE A
SUMMARY OF STATION SYSTEMS AND STRUCTURES INVENTORIES

| Index | System/Structure Inventory Data Point | Allen S . King | Angus Anson | Black Dog | Blue Lake | Granite City | Hennepin Island | High Bridge | Inver Hills | Key City | Maplewood | Minnesota Valley | Red Wing | Riverside | Sherburne County | Sibley | Wescott | Wilmarth |
|----------------------|--|----------------|-------------|-----------|-----------|--------------|-----------------|-------------|-------------|----------|-----------|------------------|----------|-----------|------------------|--------|---------|----------|
| Station Rating (Mwe) | | 511 | 386 | 409 | 545 | 0 | 14 | 606 | 371 | 0 | 0 | 0 | 178 | 502 | 2238 | 0 | 0 | 18 |
| 2 | Piping 0.25 to 2 inches diameter, linear foot | 79,850 | 31,521 | 11,835 | 20,178 | 1,501 | - | 24,690 | 3,268 | 1,501 | - | 492 | 4,919 | 24,046 | 233,790 | - | - | 4,919 |
| 3 | Piping >2 to 4 inches diameter, linear foot | 53,123 | 31,014 | 36,003 | 13,452 | 1,001 | - | 16,460 | 2,579 | 1,001 | 2,195 | 12,745 | 3,279 | 16,031 | 157,111 | 2,110 | - | 3,279 |
| 4 | Piping >4 to 8 inches diameter, linear foot | 35,133 | 14,009 | 24,870 | 10,357 | 3,138 | - | 11,173 | 6,964 | 3,138 | 1,120 | 6,427 | 2,186 | 10,687 | 103,907 | 520 | 5,585 | 2,186 |
| 5 | Piping >8 to 14 inches diameter, linear foot | 30,662 | 8,006 | 16,782 | 6,229 | 445 | - | 8,015 | 1,348 | 445 | 330 | 4,778 | 1,457 | 7,125 | 89,271 | 385 | 2,265 | 1,457 |
| 6 | Piping >14 to 20 inches diameter, linear foot | 7,208 | 2,614 | 7,217 | 4,259 | 148 | - | 5,377 | 1,139 | 148 | 90 | 2,484 | 794 | 4,750 | 26,401 | 75 | 20 | 794 |
| 7 | Piping >20 to 36 inches diameter, linear foot | 9,734 | 1,886 | 4,260 | 2,419 | - | - | 3,971 | - | - | 70 | 1,803 | 289 | 3,716 | 37,053 | 16 | - | 289 |
| 8 | Piping >36 inches diameter, linear foot | 5,335 | 898 | 3,074 | 1,796 | - | - | 2,420 | - | - | - | 17 | 173 | 2,126 | 15,991 | - | 60 | 173 |
| 9 | Valves <2 inches | 1,373 | 1,308 | 20 | 144 | 108 | - | - | 216 | 108 | - | 54 | 540 | 1,418 | 4,118 | - | - | 540 |
| 10 | Valves >2 to 4 inches | 935 | 1,660 | 1,869 | 672 | 72 | - | 698 | 174 | 72 | 330 | 402 | 360 | 698 | 2,805 | 346 | - | 360 |
| 11 | Valves >4 to 8 inches | 610 | 592 | 886 | 464 | 80 | - | 381 | 264 | 80 | 78 | 207 | 240 | 369 | 1,830 | 47 | 104 | 240 |
| 12 | Valves >8 to 14 inches | 1,519 | 272 | 531 | 142 | 24 | - | 159 | 62 | 24 | 44 | 134 | 120 | 123 | 1,115 | 54 | 35 | 120 |
| 13 | Valves >14 to 20 inches | 158 | 84 | 102 | 48 | - | - | 78 | - | - | 2 | 29 | 50 | 66 | 587 | - | 4 | 50 |
| 14 | Valves >20 to 36 inches | 128 | 22 | 31 | 24 | - | - | 36 | - | - | - | 14 | 16 | 36 | 476 | - | - | 16 |
| 15 | Valves >36 inches | 56 | 6 | 22 | 12 | - | - | 26 | - | - | - | 1 | 14 | 18 | 104 | - | - | 14 |
| 24 | Pipe hangers for small bore piping, each | 5,018 | 3,641 | 3,225 | 1,449 | 81 | - | 1,742 | 246 | 81 | 88 | 847 | 909 | 1,742 | 14,975 | 84 | - | 909 |
| 25 | Pipe hangers for large bore piping, each | 3,351 | 1,243 | 1,672 | 1,089 | 121 | - | 1,249 | 391 | 121 | 64 | 393 | 543 | 1,237 | 9,618 | 40 | 317 | 543 |
| 26 | Pump and motor set < 300 pounds | 77 | 17 | 62 | 72 | 16 | - | 13 | 108 | 16 | 6 | 32 | 38 | 13 | 507 | 3 | 7 | 38 |
| 27 | Pumps, 300-1000 pound pump | 23 | 16 | 18 | 12 | - | - | 13 | - | - | - | 4 | 8 | 13 | 73 | - | 7 | 8 |
| 28 | Pumps, >1000-10,000 pound pump | 14 | 5 | 15 | - | - | - | 2 | - | - | - | 4 | 11 | 2 | 44 | - | - | 11 |
| 29 | Pumps, >10,000 pound pump | 13 | 5 | 14 | 4 | - | - | 8 | - | - | - | 5 | 8 | 4 | 9 | - | - | 8 |
| 32 | Pump motors, 300-1000 pound pump | 23 | 32 | 18 | 12 | - | - | 13 | - | - | - | 4 | 8 | 13 | 28 | - | 7 | 8 |
| 33 | Pump motors, >1000-10,000 pound pump | 13 | 5 | 12 | - | - | - | 3 | - | - | - | 4 | 11 | 3 | 68 | 2 | - | 11 |
| 34 | Pump motors, >10,000 pound pump | 13 | 5 | 14 | 4 | - | - | 8 | - | - | - | 5 | 4 | 4 | 18 | - | - | 4 |
| 37 | Turbine-driven pumps > 10,000 pounds | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - |
| 38 | Main turbine-generator (pounds per MW(e) input) | 1 | 1 | 2 | - | - | - | 1 | - | - | - | 3 | 2 | 2 | 3 | - | - | 2 |
| 39 | Heat exchanger <3000 pound | 16 | 12 | 30 | 101 | - | - | 6 | 210 | - | - | 15 | 12 | 6 | 60 | - | - | 12 |
| 40 | Heat exchanger >3000 pound | - | 27 | 12 | 48 | - | - | 5 | 96 | - | - | 7 | 14 | 5 | 21 | - | - | 14 |
| 41 | Feedwater heater/deaerator | 9 | 6 | 25 | 2 | - | - | 2 | - | - | - | 7 | 12 | 2 | 31 | - | - | 12 |
| 49 | Main condenser (pounds per MW(e) input) | 1 | 1 | 2 | - | - | - | 1 | - | - | - | 3 | 2 | 1 | 3 | - | - | 2 |
| 51 | Tanks, <300 gallons, filters, and ion exchangers | 38 | 33 | 41 | 20 | 16 | 3 | 10 | 34 | 16 | 5 | 39 | 12 | 10 | 66 | 28 | 25 | 12 |
| 52 | Tanks, 300-3000 gallons | 12 | 32 | 29 | 4 | 12 | - | 11 | 8 | 12 | 6 | 7 | 2 | 6 | 132 | 9 | 4 | 2 |
| 53 | Tanks, >3000 gallons, square foot surface | 27,566 | 75,184 | 4,933 | 62,690 | 2,847 | - | 23,259 | 7,069 | 2,847 | 101,764 | 87,790 | 33,585 | 1,859 | 162,458 | 81,889 | 374,754 | 6,871 |
| 54 | Electrical equipment, <300 pound | 742 | 686 | 881 | 647 | 420 | 54 | 150 | 846 | 420 | 21 | 222 | 322 | 128 | 6,686 | 36 | - | 322 |
| 55 | Electrical equipment, 300-1000 pound | 144 | 296 | 500 | 350 | 40 | 16 | 289 | 184 | 40 | 17 | 51 | 18 | 280 | 936 | 13 | 15 | 18 |
| 56 | Electrical equipment, 1000-10,000 pound | 122 | 190 | 203 | 280 | 80 | 25 | 207 | 175 | 80 | 7 | 39 | 56 | 201 | 122 | 2 | 32 | 56 |
| 57 | Electrical equipment, >10,000 pound | 19 | 99 | 18 | 128 | 28 | 36 | 16 | 168 | 28 | 5 | 4 | 16 | 16 | 30 | 3 | 5 | 16 |
| 59 | Electrical transformers < 30 tons | 3 | 13 | 22 | 14 | 2 | - | 4 | 18 | 2 | 2 | 10 | - | 4 | 6 | 2 | 1 | - |
| 60 | Electrical transformers > 30 tons | 3 | 9 | 6 | 12 | 2 | - | 5 | 12 | 2 | - | 4 | 2 | 5 | 3 | - | - | 2 |
| 61 | Standby diesel-generator, <100 kW | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 62 | Standby diesel-generator, 100 kW to 1 MW | - | - | - | - | 8 | - | - | - | 8 | - | - | - | - | - | - | - | - |
| 63 | Standby diesel-generator, >1 MW | 2 | - | - | - | 4 | - | - | - | 4 | - | - | - | 2 | 5 | - | - | - |
| 64 | Fluorescent light fixture | 200 | 250 | 450 | 180 | 80 | 10 | 200 | 100 | 80 | 30 | 163 | 38 | 150 | 498 | 30 | 24 | 38 |
| 65 | Incandescent light fixture | 1,564 | 288 | 1,000 | 180 | 120 | 16 | 200 | 170 | 120 | 30 | 327 | 258 | 150 | 4,060 | 30 | 24 | 258 |
| 66 | Electrical cable tray, linear foot | 27,803 | 5,512 | 13,091 | 5,651 | 1,730 | 250 | 10,276 | - | 1,730 | - | 2,107 | 1,364 | 9,206 | 166,291 | - | 820 | 1,364 |
| 67 | Electrical conduit, linear foot | 41,992 | 7,922 | 45,448 | 8,631 | 2,471 | 4,790 | 13,688 | - | 2,471 | 2,060 | 18,605 | 8,658 | 11,905 | 119,404 | 2,000 | 8,500 | 8,658 |
| 69 | Mechanical equipment, <300 pound | 788 | 288 | 670 | 52 | 44 | 5 | 31 | 78 | 44 | 8 | 258 | 360 | 21 | 2,388 | 6 | 48 | 360 |
| 70 | Mechanical equipment, 300-1000 pound | 198 | 312 | 290 | 812 | 64 | 8 | 274 | 30 | 64 | - | 77 | 14 | 274 | 457 | 21 | 9 | 14 |
| 71 | Mechanical equipment, 1000-10,000 pound | 204 | 60 | 38 | 127 | - | 38 | 59 | 1,000 | - | 3 | 23 | 60 | 44 | 516 | 17 | 28 | 60 |
| 72 | Mechanical equipment, >10,000 pound | 68 | 160 | 106 | 238 | 60 | 26 | 141 | 219 | 60 | 20 | 5 | 45 | 103 | 90 | 8 | 62 | 45 |

TABLE A
SUMMARY OF SYSTEMS AND STRUCTURES INVENTORIES
(Continued)

| Index | System/Structure Inventory Data Point | Allen S . King | Angus Anson | Black Dog | Blue Lake | Granite City | Hennepin Island | High Bridge | Inver Hills | Key City | Maplewood | Minnesota Valley | Red Wing | Riverside | Sherburne County | Sibley | Wescott | Wilmarth |
|----------------------|--|----------------|-------------|------------|-----------|--------------|-----------------|-------------|-------------|----------|-----------|------------------|-----------|------------|------------------|---------|---------|-----------|
| Station Rating (Mwe) | | 511 | 386 | 409 | 545 | 0 | 14 | 606 | 371 | 0 | 0 | 0 | 178 | 502 | 2238 | 0 | 0 | 18 |
| 76 | HVAC equipment, <300 pound | 108 | 14 | - | 16 | - | - | - | 24 | - | - | 4 | 10 | - | 328 | - | - | 10 |
| 77 | HVAC equipment, 300-1000 pound | - | 22 | 4 | - | - | - | 36 | - | - | - | - | - | 24 | 107 | - | - | - |
| 78 | HVAC equipment, 1000-10,000 pound | - | 5 | - | - | - | - | 14 | - | - | - | 2 | 4 | 10 | 6 | - | - | 4 |
| 79 | HVAC equipment, >10,000 pound | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | - | - |
| 82 | HVAC ductwork, pound | 119,977 | 10,000 | 273,680 | - | - | 8,175 | 142,100 | - | - | - | 96,406 | 18,295 | 38,202 | 439,440 | - | - | 18,295 |
| 201 | Standard reinforced concrete, cubic yard | 24,015 | 6,662 | 22,278 | 14,027 | 3,806 | 2,006 | 18,008 | 14,800 | 1,903 | 770 | 7,390 | 9,138 | 23,366 | 89,076 | 591 | 7,914 | 5,248 |
| 202 | Grade slab concrete, cubic yard | 10,800 | 1,329 | 8,959 | 1,176 | 906 | - | 372 | 1,384 | 906 | - | 676 | 474 | 3,551 | - | - | - | 474 |
| 206 | Heavily rein concrete w/#9 rebar, cubic yard | 7,824 | 1,110 | 7,007 | - | - | - | - | - | - | - | 3,788 | 1,793 | 3,035 | 22,775 | - | - | 1,793 |
| 222 | Hollow masonry block wall, cubic yard | - | 1,103 | 374 | 58 | - | - | 425 | - | - | - | - | - | 2,219 | - | - | - | 109 |
| 224 | Solid masonry block wall, cubic yard | 3,788 | - | 4,114 | - | - | 458 | - | - | - | - | 8,809 | 663 | 3,011 | 14,335 | - | - | 663 |
| 229 | Backfill of below grade voids, cubic yard | 29,218 | 11,074 | 14,043 | 12,493 | 2,170 | 20,000 | 19,394 | 6,898 | 1,308 | - | 32,816 | 17,556 | 12,325 | - | - | - | 20,531 |
| 230 | Excavation of clean material, cubic yard | 8,747 | - | 13,387 | - | - | - | - | - | - | - | 7,307 | 5,760 | 18,507 | 34,560 | - | - | 5,760 |
| 235 | Building by volume, cubic foot | 5,117,058 | 229,493 | 35,076 | 970,228 | 189,562 | - | 318,816 | 247,411 | 189,562 | 159,000 | 155,740 | 321,500 | 597,793 | 9,863,100 | 107,000 | 390,842 | 321,500 |
| 236 | Building metal siding, square foot | 217,256 | 42,789 | 56,780 | 19,901 | 37,278 | - | 108,748 | 15,564 | 37,278 | - | 73,964 | 32,498 | 93,913 | 669,467 | - | - | 32,498 |
| 242 | Standard asphalt roofing, square foot | 47,897 | 22,500 | 32,544 | - | - | 9,375 | 110,000 | - | - | - | 23,588 | 9,129 | 119,469 | 237,266 | - | - | 9,129 |
| 245 | Placement of cofferdam, linear foot | 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 248 | Lead paint removal from concrete surfaces, square foot | 373,064 | 54,000 | - | - | - | 54,150 | - | - | - | - | 135,495 | 54,337 | - | - | - | - | 54,337 |
| 253 | Overhead cranes/monorails < 10 ton capacity, each | 14 | 5 | 2 | - | - | - | - | - | - | - | - | 1 | - | 136 | - | - | 1 |
| 255 | Overhead cranes/monorails >10 - 50 ton capacity, each | 6 | 2 | - | 4 | - | 1 | 5 | - | - | - | 2 | 2 | 7 | 21 | - | 1 | 2 |
| 258 | Gantry cranes > 50 ton capacity, each | 1 | - | - | 1 | - | - | 1 | - | - | - | - | - | 5 | 6 | - | - | - |
| 260 | Structural steel, pounds | 24,541,699 | 2,731,615 | 13,947,804 | 1,748,139 | 310,648 | 299,854 | 6,981,323 | 662,931 | 310,648 | 12,000 | 6,612,141 | 2,429,526 | 17,879,987 | 83,653,565 | 10,000 | 77,000 | 2,429,526 |
| 262 | Steel floor grating, square foot | 161,222 | 16,242 | 43,412 | 7,410 | 2,673 | 900 | 18,797 | - | 2,673 | - | 12,083 | 30,386 | 56,169 | 578,353 | - | - | 30,386 |
| 268 | Placement of scaffolding in clean areas, square foot | 66,680 | - | 83,881 | - | - | - | - | - | - | - | 19,777 | 13,043 | - | 210,181 | - | - | 13,043 |
| 270 | Landscaping with topsoil, acre | 3 | 4 | 4 | 1 | 0 | 2 | 1.9 | 2 | 0 | 3 | 1 | 4 | 3 | 33 | 2 | 4 | 2 |
| 271 | Landscaping w/o topsoil, acre | 29 | 4 | 5 | 8 | 2 | - | 4 | 9 | 2 | 3 | 7 | 3 | 8 | 239 | 2 | 4 | 4 |
| 272 | Chain link fencing, linear foot | 3,372 | 6,800 | 3,000 | 2,880 | 995 | 550 | 3,144 | 2,800 | 995 | 2,460 | 3,859 | 8,372 | 5,016 | 20,000 | 3,680 | 3,450 | 995 |
| 273 | Railroad track, linear foot | 3,000 | - | 3,600 | - | - | - | - | - | - | - | - | - | - | 24,000 | - | - | - |
| 274 | Asphalt pavement, square foot | 220,880 | 91,000 | 122,500 | 78,300 | 12,000 | 17,650 | 75,171 | 51,000 | 12,000 | 17,750 | 38,225 | - | 128,241 | 801,500 | 45,625 | 62,700 | 52,000 |
| 293 | Carbon steel plate 3/8 inch thick, square foot | - | 8,200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 294 | Carbon steel plate 1/2 inch thick, square foot | 66,630 | 7,388 | 36,515 | 14,776 | 75,398 | 12,441 | 14,550 | - | 75,398 | - | 6,959 | 17,695 | 78,517 | 219,533 | - | - | 17,695 |
| 359 | Steam drum removal (fossil) | 1 | 3 | 5 | 6 | - | - | 6 | - | - | - | 3 | 2 | 9 | 6 | - | - | 2 |
| 360 | Water drum removal (fossil) | - | - | - | - | - | - | - | - | - | - | 4 | 4 | - | 12 | - | - | 4 |
| 361 | Upper/lower waterwall headers (fossil) | 26 | - | 22 | - | - | - | - | - | - | - | 14 | 6 | 27 | 72 | - | - | 6 |
| 362 | Top sup boiler waterwall (8'x8' section), inches cut | 138,902 | - | 75,985 | - | - | - | - | - | - | - | 45,627 | 13,392 | 128,711 | 470,566 | - | - | 13,392 |
| 369 | Boiler convective superheater platens | 307 | - | 356 | - | - | - | - | - | - | - | 256 | 116 | 459 | 1,344 | - | - | 116 |
| 370 | Boiler radiant superheater platens | - | - | - | - | - | - | - | - | - | - | - | - | - | 156 | - | - | - |
| 371 | Boiler reheat platens | 140 | - | 180 | - | - | - | - | - | - | - | - | - | 90 | 666 | - | - | - |
| 372 | Boiler economizer platens | 420 | - | 169 | - | - | - | - | - | - | - | 39 | - | 163 | 1,344 | - | - | - |
| 374 | Stationary soot blowers | 98 | - | 64 | - | - | - | - | - | - | - | 21 | - | 32 | 315 | - | - | - |
| 375 | Retractable soot blowers | 70 | - | 36 | - | - | - | - | - | - | - | 7 | 16 | 18 | 144 | - | - | 16 |
| 376 | Process ductwork (8'x8' section), inches cut | 757,268 | 321,019 | 1,009,405 | 625,433 | 54,416 | - | 446,315 | 307,617 | 54,416 | - | 470,306 | 61,481 | 1,009,280 | 3,392,767 | - | - | 61,481 |
| 378 | Non-asbestos insulated regenerative air preheaters | 4 | - | 9 | - | - | - | - | - | - | - | 8 | 8 | 4 | 13 | - | - | 8 |
| 380 | Non-asbestos insulated recuperative air preheaters | - | - | - | - | - | - | - | - | - | - | 4 | - | 8 | - | - | - | - |
| 382 | Induced, forced, primary draft fans | 9 | - | 11 | - | - | - | - | - | - | - | 4 | 4 | - | 42 | - | - | 4 |
| 383 | Coal car dumpers | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - |
| 384 | Conveyors | 5,528 | - | - | - | - | - | - | - | - | - | - | 625 | - | 5,000 | - | - | 625 |
| 385 | Transfer Towers | 100,500 | - | - | - | - | - | - | - | - | - | - | - | - | 201,000 | - | - | - |
| 386 | Stacker-reclaimers | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - |
| 389 | Ball mills | 12 | - | 8 | - | - | - | - | - | - | - | 4 | - | - | 43 | - | - | - |
| 390 | Coal feeders | 120 | - | 122 | - | - | - | - | - | - | - | 40 | 86 | - | 1,019 | - | - | 86 |

TABLE A
SUMMARY OF STATION SYSTEMS AND STRUCTURES INVENTORIES
WIND FARMS ONLY

| Index | System/Structure Inventory Data Point | Blazing Star I | Blazing Star I (48 in.) | Border Winds Project | Border Winds Project (48 in.) | Courtenay | Courtenay (48 in.) | Foxtail | Foxtail (48 in.) | Grand Meadow | Grand Meadow (48 in.) | Lake Benton II | Lake Benton II (48 in.) | Nobles | Nobles (48 in.) | Pleasant Valley | Pleasant Valley (48 in.) |
|-------|--|----------------|-------------------------|----------------------|-------------------------------|-----------|--------------------|-----------|------------------|--------------|-----------------------|----------------|-------------------------|-----------|-----------------|-----------------|--------------------------|
| | Station Rating (Mwe) | 200 | 200 | 148 | 148 | 190 | 190 | 150 | 150 | 99 | 99 | 99 | 99 | 197 | 197 | 196 | 196 |
| 56 | Electrical equipment, 1000-10,000 pound | 100 | 100 | 75 | 75 | 100 | 100 | 75 | 75 | 67 | 67 | 44 | 44 | 134 | 134 | 100 | 100 |
| 57 | Electrical equipment, >10,000 pound | 300 | 300 | 225 | 225 | 300 | 300 | 225 | 225 | 134 | 134 | 132 | 132 | 268 | 268 | 300 | 300 |
| 67 | Electrical conduit, linear foot | 1,731,165 | - | 1,298,374 | - | 1,731,165 | - | 1,298,374 | - | 1,159,881 | - | 513,184 | 0 | 2,319,761 | - | 1,731,165 | - |
| 72 | Mechanical equipment, >10,000 pound | 1,550 | 1,550 | 1,163 | 1,163 | 1,550 | 1,550 | 1,163 | 1,163 | 1,039 | 1,039 | 770 | 770 | 2,211 | 2,211 | 1,650 | 1,650 |
| 201 | Standard reinforced concrete, cubic yard | 36,220 | 4,067 | 28,822 | 3,125 | 36,182 | 4,029 | 28,397 | 3,086 | 18,865 | 2,765 | 15,854 | 1,908 | 43,432 | 5,336 | 38,082 | 3,997 |
| 229 | Backfill of below grade voids, cubic yard | 207,034 | 174,881 | 156,858 | 131,161 | 207,034 | 174,881 | 156,471 | 131,161 | 133,270 | 117,170 | 90,893 | 76,948 | 272,437 | 234,341 | 208,965 | 174,881 |
| 230 | Excavation of clean material, cubic yard | 333,101 | 187,310 | 249,826 | 140,483 | 333,101 | 187,310 | 249,826 | 140,483 | 223,178 | 125,498 | 146,565 | 82,416 | 446,356 | 250,996 | 333,101 | 187,310 |
| 235 | Building by volume, cubic foot | 132,000 | 132,000 | 132,000 | 132,000 | 108,000 | 108,000 | 108,000 | 108,000 | 95,625 | 95,625 | 102,000 | 102,000 | 123,930 | 123,930.00 | 88,560 | 88,560 |
| 270 | Landscaping with topsoil, acre | 71 | 71 | 53 | 53 | 71 | 71 | 53 | 53 | 47 | 47 | 31 | 31 | 95 | 95 | 71 | 71 |
| 271 | Landscaping w/o topsoil, acre | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 294 | Carbon steel plate 1/2 inch thick, square foot | 892,716 | 892,716 | 588,123 | 588,123 | 784,164 | 784,164 | 669,644 | 669,644 | 658,346 | 658,346 | 524,316 | 524,316 | 1,316,693 | 1,316,692.58 | 1,156,983 | 1,156,983 |

APPENDIX B
UNIT COST FACTOR DEVELOPMENT

APPENDIX B

**UNIT COST FACTOR DEVELOPMENT
 (Using Minnesota-based labor rates)**

Example: Unit Factor for Removal of Heat Exchanger < 3,000 pounds

1. SCOPE

Heat exchangers weighing < 3,000 lb. will be removed in one piece using a crane or small hoist. They will be disconnected from the inlet and outlet piping. The heat exchanger will be sent to the laydown area.

2. CALCULATIONS

| Act ID | Activity Description | Activity Duration | Critical Duration |
|--------|-----------------------------------|-------------------|-------------------|
| a | Remove insulation | 20 | (b) |
| b | Mount pipe cutters | 60 | 60 |
| c | Disconnect inlet and outlet lines | 60 | 60 |
| d | Rig for removal | 30 | 30 |
| e | Unbolt from mounts | 30 | 30 |
| f | Remove, send to packing area | <u>60</u> | <u>60</u> |
| | Totals (Activity/Critical) | 260 | 240 |

Duration adjustment(s):
 + Work break adjustment (8.33 % of productive duration) 20
 Total work duration (minutes) 260

***** Total duration = 4.333 hours *****

3. LABOR REQUIRED

| Crew | Number | Duration (hr) | Rate (\$/hr) | Cost (\$) |
|------------------|--------|------------------|-----------------|--------------|
| Laborers | 3.0 | 4.333 | 60.80 | 790.34 |
| Craftsmen | 2.0 | 4.333 | 71.33 | 618.15 |
| Foreman | 1.0 | 4.333 | 73.44 | 318.22 |
| General Foreman | 0.25 | 4.333 | 74.44 | 80.64 |
| Fire Watch | 0.05 | 4.333 | 60.80 | <u>13.17</u> |
| Total labor cost | | | | 1,820.52 |

4. EQUIPMENT & CONSUMABLES COSTS

| | |
|---|-----------------|
| Equipment Costs | none |
| Consumables/Materials Costs | |
| Gas torch consumables 1 @ \$19.93/hr x 1 hr {1} | <u>19.93</u> |
| Subtotal cost of equipment and materials | 19.93 |
| Overhead & profit on equipment and materials @ 16.88% | <u>3.36</u> |
| Total costs, equipment & material | 23.29 |
| TOTAL COST Removal of heat exchanger <3000 pound: | 1,843.81 |
| Total labor cost: | 1,820.52 |
| Total equipment/material costs: | 23.29 |
| Total craft labor man-hours required per unit: | 27.298 |

5. NOTES AND REFERENCES

- Durations are shown in minutes. The integrated duration accounts for those activities that can be performed in conjunction with other activities, indicated by the alpha designator of the concurrent activity. This results in an overall decrease in the sequenced duration.
- Work difficulty factors were developed in conjunction with the AIF program to standardize decommissioning cost studies and are delineated in the "Guidelines" study (Reference 2, Vol. 1, Chapter 5).
- References for equipment and consumables costs:
 1. R.S. Means (2019) Division 01 54 33, Section 40-6360 Page 736

APPENDIX C

UNIT COST FACTOR LISTING

Table C-1, Minnesota Stations Unit Cost Factors..... C-2
Table C-2, North Dakota Station Unit Cost Factors..... C-5
Table C-3, South Dakota Station Unit Cost Factors..... C-6

TABLE C-1
UNIT COST FACTOR LISTING
Minnesota Stations
 (Costs are in 2019 dollars/Scrap Weights in pounds)

| UCF # | Description | Unit Cost Factors | | | Scrap Weight | | | | | | | |
|-------|--|-------------------|------------|-------------|--------------|--------------------|-------------|-----------|--------------|-------------|--------------|-------------|
| | | Total Cost | Labor Cost | Labor Hours | Cast Iron | Carbon Steel No. 1 | Mixed Scrap | SS-1 | Galv. Steel. | Insul Cable | No. 2 Copper | Large Motor |
| 2 | Piping 0.25 to 2 inches diameter, linear foot | 6.97 | 6.89 | 0.1 | - | 4 | - | 0.5 | - | - | - | - |
| 3 | Piping >2 to 4 inches diameter, linear foot | 9.79 | 9.68 | 0.2 | - | 7 | - | 0.9 | - | - | 0.4 | - |
| 4 | Piping >4 to 8 inches diameter, linear foot | 18.72 | 18.56 | 0.3 | - | 22 | - | - | - | - | - | - |
| 5 | Piping >8 to 14 inches diameter, linear foot | 36.53 | 36.34 | 0.6 | - | 57 | - | - | - | - | - | - |
| 6 | Piping >14 to 20 inches diameter, linear foot | 47.51 | 46.93 | 0.7 | - | - | 120 | - | - | - | - | - |
| 7 | Piping >20 to 36 inches diameter, linear foot | 69.90 | 69.13 | 1.1 | - | - | 221 | - | - | - | - | - |
| 8 | Piping >36 inches diameter, linear foot | 83.05 | 82.27 | 1.3 | - | - | 417 | - | - | - | - | - |
| 9 | Valves <2 inches | 133.87 | 133.10 | 2.0 | - | - | - | - | - | - | - | - |
| 10 | Valves >2 to 4 inches | 124.03 | 122.86 | 1.9 | 75 | - | - | 8.8 | - | - | 4.4 | - |
| 11 | Valves >4 to 8 inches | 187.18 | 185.61 | 2.8 | 510 | - | - | - | - | - | - | - |
| 12 | Valves >8 to 14 inches | 365.29 | 363.36 | 5.6 | 1,066 | - | - | - | - | - | - | - |
| 13 | Valves >14 to 20 inches | 475.15 | 469.33 | 7.3 | - | - | 2,040 | - | - | - | - | - |
| 14 | Valves >20 to 36 inches | 699.04 | 691.28 | 10.7 | - | - | 3,334 | - | - | - | - | - |
| 15 | Valves >36 inches | 830.45 | 822.69 | 12.7 | - | - | 11,535 | - | - | - | - | - |
| 24 | Pipe hangers for small bore piping, each | 43.43 | 37.61 | 0.6 | - | 10 | - | - | - | - | - | - |
| 25 | Pipe hangers for large bore piping, each | 156.79 | 145.14 | 2.3 | - | 50 | - | - | - | - | - | - |
| 26 | Pump and motor set < 300 pounds | 316.32 | 306.61 | 4.7 | - | - | 50 | 12.5 | - | - | - | 62.3 |
| 27 | Pumps, 300-1000 pound pump | 866.84 | 851.31 | 12.7 | 293 | - | 49 | 48.9 | - | - | - | - |
| 28 | Pumps, >1000-10,000 pound pump | 3,438.05 | 3,414.76 | 51.3 | 2,834 | - | 472 | 472.3 | - | - | - | - |
| 29 | Pumps, >10,000 pound pump | 6,651.40 | 6,581.52 | 98.9 | 43,693 | - | 7,282 | 7,282.1 | - | - | - | - |
| 32 | Pump motors, 300-1000 pound pump | 362.10 | 362.10 | 5.4 | - | - | - | - | - | - | - | 307.8 |
| 33 | Pump motors, >1000-10,000 pound pump | 1,428.02 | 1,428.02 | 21.5 | - | - | - | - | - | - | - | 3,531.6 |
| 34 | Pump motors, >10,000 pound pump | 3,213.05 | 3,213.05 | 48.3 | - | - | - | - | - | - | - | 42,324.5 |
| 37 | Turbine-driven pumps > 10,000 pounds | 8,904.73 | 8,827.09 | 132.7 | 20,000 | - | 20,000 | - | - | - | - | - |
| 38 | Main turbine-generator (pounds per MW(e) input) | 208,434.81 | 206,943.98 | 3,042.0 | - | - | 851,500 | - | - | - | - | 851,500.0 |
| 39 | Heat exchanger <3000 pound | 1,843.81 | 1,820.52 | 27.3 | - | - | 416 | 623.4 | - | - | - | - |
| 40 | Heat exchanger >3000 pound | 4,644.67 | 4,551.49 | 68.3 | - | - | 5,599 | 8,397.9 | - | - | - | - |
| 41 | Feedwater heater/deaerator | 13,109.71 | 12,923.36 | 194.2 | - | - | 12,000 | 18,000.0 | - | - | - | - |
| 49 | Main condenser (pounds per MW(e) input) | 573,864.75 | 553,556.38 | 8,243.6 | 149,400 | - | 149,400 | 199,200.0 | - | - | - | - |
| 51 | Tanks, <300 gallons, filters, and ion exchangers | 406.82 | 395.17 | 6.0 | - | - | 401 | 401.2 | - | - | - | - |
| 52 | Tanks, 300-3000 gallons | 1,281.67 | 1,258.38 | 19.1 | - | - | 2,700 | 300.0 | - | - | - | - |
| 53 | Tanks, >3000 gallons, square foot surface | 10.64 | 10.35 | 0.2 | - | 21 | - | - | - | - | - | - |
| 54 | Electrical equipment, <300 pound | 171.33 | 171.33 | 2.6 | - | - | 56 | - | - | - | 2.9 | - |
| 55 | Electrical equipment, 300-1000 pound | 589.54 | 589.54 | 8.8 | - | - | 624 | - | - | - | 32.8 | - |

TABLE C-1 (continued)
UNIT COST FACTOR LISTING
Minnesota Stations
(Costs are in 2019 dollars/Scrap Weights in pounds)

| Unit Cost Factors | | | | Scrap Weight | | | | | | | | |
|-------------------|--|------------|------------|--------------|-----------|--------------------|-------------|------|--------------|-------------|--------------|-------------|
| UCF # | Description | Total Cost | Labor Cost | Labor Hours | Cast Iron | Carbon Steel No. 1 | Mixed Scrap | SS-1 | Galv. Steel. | Insul Cable | No. 2 Copper | Large Motor |
| 248 | Lead paint removal from concrete surfaces, square foot | 10.07 | 8.11 | 0.1 | - | - | - | - | - | - | - | - |
| 253 | Overhead cranes/monorails < 10 ton capacity, each | 810.83 | 810.83 | 11.8 | - | 3,700 | - | - | - | - | - | - |
| 255 | Overhead cranes/monorails >10 - 50 ton capacity, each | 1,945.99 | 1,945.99 | 28.3 | - | - | 298,832 | - | - | - | 3,018.5 | - |
| 258 | Gantry cranes > 50 ton capacity, each | 31,034.60 | 31,034.60 | 457.3 | - | - | 712,800 | - | - | - | 7,200.0 | - |
| 260 | Structural steel, pounds | 0.24 | 0.20 | - | - | 1 | - | - | - | - | - | - |
| 262 | Steel floor grating, square foot | 5.73 | 5.32 | 0.1 | - | - | 6 | - | 1.1 | - | - | - |
| 268 | Placement of scaffolding in clean areas, square foot | 18.58 | 6.42 | 0.1 | - | - | - | - | - | - | - | - |
| 270 | Landscaping with topsoil, acre | 24,287.33 | 3,567.37 | 52.6 | - | - | - | - | - | - | - | - |
| 271 | Landscaping w/o topsoil, acre | 1,151.70 | 380.40 | 5.3 | - | - | - | - | - | - | - | - |
| 272 | Chain link fencing, linear foot | 4.13 | 3.47 | 0.1 | - | - | - | - | 10.0 | - | - | - |
| 273 | Railroad track, linear foot | 28.23 | 14.43 | 0.2 | - | 91 | - | - | - | - | - | - |
| 274 | Asphalt pavement, square foot | 1.02 | 0.75 | 0.0 | - | - | - | - | - | - | - | - |
| 291 | Carbon steel plate 1/4 inch thick, square foot | 4.48 | 3.80 | 0.1 | - | - | 10 | - | - | - | - | - |
| 294 | Carbon steel plate 1/2 inch thick, square foot | 4.73 | 4.00 | 0.1 | - | - | 20 | - | - | - | - | - |
| 359 | Steam drum removal (fossil) | 26,089.30 | 25,934.00 | 411.6 | - | - | 480,000 | - | - | - | - | - |
| 360 | Water drum removal (fossil) | 9,683.73 | 9,654.62 | 153.2 | - | - | 320,000 | - | - | - | - | - |
| 361 | Upper/lower waterwall headers (fossil) | 7,308.10 | 7,278.99 | 115.5 | - | - | 120,000 | - | - | - | - | - |
| 362 | Top sup boiler waterwall (8'x8' section), inches cut | 0.87 | 0.83 | 0.0 | - | - | 11 | - | - | - | - | - |
| 369 | Boiler convective superheater platens | 2,090.33 | 1,888.47 | 29.6 | - | - | 19,501 | - | - | - | - | - |
| 370 | Boiler radiant superheater platens | 884.30 | 798.91 | 12.5 | - | - | 51,652 | - | - | - | - | - |
| 371 | Boiler reheat platens | 884.30 | 798.91 | 12.5 | - | - | 19,501 | - | - | - | - | - |
| 372 | Boiler economizer platens | 1,125.50 | 1,016.81 | 15.9 | - | - | 11,703 | - | - | - | - | - |
| 374 | Stationary soot blowers | 46.10 | 46.10 | 0.7 | - | - | 500 | - | - | - | - | 50.0 |
| 375 | Retractable soot blowers | 435.82 | 435.82 | 6.8 | - | - | 11,150 | - | - | - | - | 100.0 |
| 376 | Process ductwork (8'x8' section), inches cut | 0.43 | 0.40 | 0.0 | - | - | 0 | - | - | - | - | - |
| 378 | Non-asbestos insulated regenerative air preheaters | 13,695.05 | 11,878.10 | 188.5 | - | - | 1,376,000 | - | - | - | - | - |
| 380 | Non-asbestos insulated recuperative air preheaters | 7,571.40 | 6,435.81 | 101.6 | - | - | 1,376,000 | - | - | - | - | - |
| 382 | Induced, forced, primary draft fans | 2,080.55 | 2,033.96 | 31.9 | - | - | 30,000 | - | - | - | - | 3,531.6 |
| 383 | Coal car dumpers | 18,719.68 | 15,924.38 | 249.4 | - | - | 125,000 | - | - | - | - | 500.0 |
| 384 | Conveyors | 17.64 | 16.48 | 0.3 | - | - | 820 | - | - | - | - | - |
| 385 | Transfer Towers | 0.31 | 0.17 | - | - | - | 5 | - | - | - | - | - |
| 386 | Stacker-reclaimers | 190,631.94 | 190,631.94 | 3,008.3 | - | - | 300,000 | - | - | - | - | 2,000.0 |
| 387 | Coal crushers | 1,260.40 | 1,248.75 | 19.3 | - | - | 36,000 | - | - | - | - | 250.0 |
| 389 | Ball mills | 1,816.03 | 1,816.03 | 28.1 | - | - | 360,000 | - | - | - | - | 7,063.1 |
| 390 | Coal feeders | 457.07 | 445.42 | 7.1 | - | - | 1,194 | - | - | - | - | - |

TABLE C-2
UNIT COST FACTOR LISTING
North Dakota Stations
 (Costs are in 2019 dollars/Scrap Weights in pounds)

| Unit Cost Factors | | | | | Scrap Weight | | | | |
|--------------------------|---|-------------------|-------------------|--------------------|---------------------------|--------------------|---------------------|--------------------|-----------------|
| UCF # | Description | Total Cost | Labor Cost | Labor Hours | Carbon Steel No. 1 | Mixed Scrap | No. 2 Copper | Large Motor | Aluminum |
| 56 | Electrical equipment, 1000-10,000 pound | 1,179.09 | 1,179.09 | 17.6 | - | 2,212 | 116.4 | - | - |
| 57 | Electrical equipment, >10,000 pound | 2,779.22 | 2,779.22 | 41.0 | - | 19,950 | - | 75,610 | - |
| 67 | Electrical conduit, linear foot | 7.06 | 6.85 | 0.1 | - | - | 0.3 | - | 1.2 |
| 72 | Mechanical equipment, >10,000 pound | 2,779.22 | 2,779.22 | 41.0 | - | 11,938 | - | - | - |
| 201 | Standard reinforced concrete, cubic yard | 82.15 | 26.84 | 0.4 | 183 | - | - | - | - |
| 229 | Backfill of below grade voids, cubic yard | 33.80 | 4.21 | 0.1 | - | - | - | - | - |
| 230 | Excavation of clean material, cubic yard | 3.41 | 1.49 | 0.02 | - | - | - | - | - |
| 235 | Building by volume, cubic foot | 0.35 | 0.21 | 0.003 | - | 1 | - | - | - |

TABLE C-3
UNIT COST FACTOR LISTING
South Dakota Station
 (Costs are in 2019 dollars/Scrap Weights in pounds)

| UCF # | Description | Unit Cost Factors | | | Scrap Weight | | | | | | | |
|-------|--|-------------------|------------|-------------|--------------|--------------------|-------------|-----------|-------------|-------------|--------------|-------------|
| | | Total Cost | Labor Cost | Labor Hours | Cast Iron | Carbon Steel No. 1 | Mixed Scrap | SS-1 | Galv. Steel | Insul Cable | No. 2 Copper | Large Motor |
| 2 | Piping 0.25 to 2 inches diameter, linear foot | 6.97 | 6.89 | 0.1 | - | 4 | - | 0.5 | - | - | - | - |
| 3 | Piping >2 to 4 inches diameter, linear foot | 9.79 | 9.68 | 0.2 | - | 7 | - | 0.9 | - | - | 0.4 | - |
| 4 | Piping >4 to 8 inches diameter, linear foot | 18.71 | 18.56 | 0.3 | - | 22 | - | - | - | - | - | - |
| 5 | Piping >8 to 14 inches diameter, linear foot | 36.52 | 36.34 | 0.6 | - | 57 | - | - | - | - | - | - |
| 6 | Piping >14 to 20 inches diameter, linear foot | 47.48 | 46.93 | 0.7 | - | - | 120 | - | - | - | - | - |
| 7 | Piping >20 to 36 inches diameter, linear foot | 69.86 | 69.13 | 1.1 | - | - | 221 | - | - | - | - | - |
| 8 | Piping >36 inches diameter, linear foot | 83.00 | 82.27 | 1.3 | - | - | 417 | - | - | - | - | - |
| 9 | Valves <2 inches | 133.82 | 133.10 | 2.0 | - | - | - | 2.0 | - | - | - | - |
| 10 | Valves >2 to 4 inches | 123.95 | 122.86 | 1.9 | 75 | - | - | 8.8 | - | - | 4.4 | - |
| 11 | Valves >4 to 8 inches | 187.08 | 185.61 | 2.8 | 510 | - | - | - | - | - | - | - |
| 12 | Valves >8 to 14 inches | 365.17 | 363.36 | 5.6 | 1,066 | - | - | 5.6 | - | - | - | - |
| 13 | Valves >14 to 20 inches | 474.79 | 469.33 | 7.3 | - | - | 2,040 | - | - | - | - | - |
| 14 | Valves >20 to 36 inches | 698.56 | 691.28 | 10.7 | - | - | 3,334 | - | - | - | - | - |
| 15 | Valves >36 inches | 829.97 | 822.69 | 12.7 | - | - | 11,535 | - | - | - | - | - |
| 24 | Pipe hangers for small bore piping, each | 43.07 | 37.61 | 0.6 | - | 10 | - | - | - | - | - | - |
| 25 | Pipe hangers for large bore piping, each | 156.07 | 145.14 | 2.3 | - | 50 | - | - | - | - | - | - |
| 26 | Pump and motor set < 300 pounds | 315.72 | 306.61 | 4.7 | - | - | 50 | 12.5 | - | - | - | 62.3 |
| 27 | Pumps, 300-1000 pound pump | 865.89 | 851.31 | 12.7 | 293 | - | 49 | 48.9 | - | - | - | - |
| 28 | Pumps, >1000-10,000 pound pump | 3,436.62 | 3,414.76 | 51.3 | 2,834 | - | 472 | 472.3 | - | - | - | - |
| 29 | Pumps, >10,000 pound pump | 6,647.09 | 6,581.52 | 98.9 | 43,693 | - | 7,282 | 7,282.1 | - | - | - | - |
| 32 | Pump motors, 300-1000 pound pump | 362.10 | 362.10 | 5.4 | - | - | - | - | - | - | - | 307.8 |
| 33 | Pump motors, >1000-10,000 pound pump | 1,428.02 | 1,428.02 | 21.5 | - | - | - | - | - | - | - | 3,531.6 |
| 34 | Pump motors, >10,000 pound pump | 3,213.05 | 3,213.05 | 48.3 | - | - | - | - | - | - | - | 42,324.5 |
| 38 | Main turbine-generator (pounds per MW(e) input) | 208,342.91 | 206,943.98 | 3,042.0 | - | - | 851,500 | - | - | - | - | 851,500.0 |
| 39 | Heat exchanger <3000 pound | 1,842.38 | 1,820.52 | 27.3 | - | - | 416 | 623.4 | - | - | - | - |
| 40 | Heat exchanger >3000 pound | 4,638.92 | 4,551.49 | 68.3 | - | - | 5,599 | 8,397.9 | - | - | - | - |
| 41 | Feedwater heater/deaerator | 13,098.22 | 12,923.36 | 194.2 | - | - | 12,000 | 18,000.0 | - | - | - | - |
| 49 | Main condenser (pounds per MW(e) input) | 572,617.94 | 553,556.38 | 8,243.6 | 149,400 | - | 149,400 | 199,200.0 | - | - | - | - |
| 51 | Tanks, <300 gallons, filters, and ion exchangers | 406.10 | 395.17 | 6.0 | - | - | 401 | 401.2 | - | - | - | - |
| 52 | Tanks, 300-3000 gallons | 1,280.24 | 1,258.38 | 19.1 | - | - | 2,700 | 300.0 | - | - | - | - |
| 53 | Tanks, >3000 gallons, square foot surface | 10.63 | 10.35 | 0.2 | - | 21 | - | - | - | - | - | - |
| 54 | Electrical equipment, <300 pound | 171.33 | 171.33 | 2.6 | - | - | 56 | - | - | - | 2.9 | - |
| 55 | Electrical equipment, 300-1000 pound | 589.54 | 589.54 | 8.8 | - | - | 624 | - | - | - | 32.8 | - |
| 56 | Electrical equipment, 1000-10,000 pound | 1,179.09 | 1,179.09 | 17.6 | - | - | 2,212 | - | - | - | 116.4 | - |
| 57 | Electrical equipment, >10,000 pound | 2,779.22 | 2,779.22 | 41.0 | - | - | 19,950 | - | - | - | 1,050.0 | - |
| 59 | Electrical transformers < 30 tons | 1,930.13 | 1,930.13 | 28.4 | - | - | 11,250 | - | - | - | 3,750.0 | - |
| 60 | Electrical transformers > 30 tons | 5,558.44 | 5,558.44 | 81.9 | - | - | 375,000 | - | - | - | 125,000.0 | - |

TABLE C-3 (continued)
UNIT COST FACTOR LISTING
South Dakota Station
 (Costs are in 2019 dollars/Scrap Weights in pounds)

| UCF # | Description | Unit Cost Factors | | | Scrap Weight | | | | | | | |
|-------|--|-------------------|------------|-------------|--------------|--------------------|-------------|------|-------------|-------------|--------------|-------------|
| | | Total Cost | Labor Cost | Labor Hours | Cast Iron | Carbon Steel No. 1 | Mixed Scrap | SS-1 | Galv. Steel | Insul Cable | No. 2 Copper | Large Motor |
| 61 | Standby diesel-generator, <100 kW | 1,971.46 | 1,971.46 | 29.1 | 2,340 | - | - | - | - | - | - | 260.0 |
| 64 | Fluorescent light fixture | 71.90 | 71.90 | 1.1 | - | - | - | - | - | - | - | - |
| 65 | Incandescent light fixture | 36.05 | 36.05 | 0.6 | - | - | - | - | - | - | - | - |
| 66 | Electrical cable tray, linear foot | 16.09 | 15.73 | 0.2 | - | - | - | - | 6.6 | 6.6 | - | - |
| 67 | Electrical conduit, linear foot | 7.03 | 6.85 | 0.1 | - | - | - | - | 3.4 | 3.4 | - | - |
| 69 | Mechanical equipment, <300 pound | 171.33 | 171.33 | 2.6 | - | - | 127 | - | - | - | - | - |
| 70 | Mechanical equipment, 300-1000 pound | 589.54 | 589.54 | 8.8 | - | - | 641 | - | - | - | - | - |
| 71 | Mechanical equipment, 1000-10,000 pound | 1,179.09 | 1,179.09 | 17.6 | - | - | 4,184 | - | - | - | - | - |
| 72 | Mechanical equipment, >10,000 pound | 2,779.22 | 2,779.22 | 41.0 | - | - | 11,938 | - | - | - | - | - |
| 76 | HVAC equipment, <300 pound | 207.18 | 207.18 | 3.1 | - | - | 184 | - | - | - | - | - |
| 77 | HVAC equipment, 300-1000 pound | 708.37 | 708.37 | 10.6 | - | - | 643 | - | - | - | - | - |
| 78 | HVAC equipment, 1000-10,000 pound | 1,411.80 | 1,411.80 | 21.0 | - | - | 3,813 | - | - | - | - | - |
| 82 | HVAC ductwork, pound | 0.68 | 0.68 | 0.0 | - | - | - | - | 1.0 | - | - | - |
| 201 | Standard reinforced concrete, cubic yard | 74.02 | 26.84 | 0.4 | - | 183 | - | - | - | - | - | - |
| 202 | Grade slab concrete, cubic yard | 84.20 | 30.65 | 0.5 | - | 183 | - | - | - | - | - | - |
| 206 | Heavily rein concrete w/#9 rebar, cubic yard | 106.96 | 39.28 | 0.6 | - | 730 | - | - | - | - | - | - |
| 222 | Hollow masonry block wall, cubic yard | 25.45 | 10.27 | 0.1 | - | 66 | - | - | - | - | - | - |
| 229 | Backfill of below grade voids, cubic yard | 29.45 | 4.21 | 0.1 | - | - | - | - | - | - | - | - |
| 235 | Building by volume, cubic foot | 0.33 | 0.21 | - | - | - | 1 | - | - | - | - | - |
| 236 | Building metal siding, square foot | 1.71 | 1.28 | 0.0 | - | - | - | - | 2.4 | - | - | - |
| 242 | Standard asphalt roofing, square foot | 3.01 | 3.01 | 0.1 | - | - | - | - | - | - | - | - |
| 248 | Lead paint removal from concrete surfaces, square foot | 9.80 | 7.96 | 0.1 | - | - | - | - | - | - | - | - |
| 253 | Overhead cranes/monorails < 10 ton capacity, each | 810.83 | 810.83 | 11.8 | - | 3,700 | - | - | - | - | - | - |
| 255 | Overhead cranes/monorails >10 - 50 ton capacity, each | 1,945.99 | 1,945.99 | 28.3 | - | - | 298,832 | - | - | - | 3,018.5 | - |
| 260 | Structural steel, pounds | 0.23 | 0.20 | - | - | 1 | - | - | - | - | - | - |
| 262 | Steel floor grating, square foot | 5.70 | 5.32 | 0.1 | - | - | 6 | - | 1.1 | - | - | - |
| 270 | Landscaping with topsoil, acre | 23,009.82 | 3,567.37 | 52.6 | - | - | - | - | - | - | - | - |
| 271 | Landscaping w/o topsoil, acre | 1,104.15 | 380.40 | 5.3 | - | - | - | - | - | - | - | - |
| 272 | Chain link fencing, linear foot | 4.09 | 3.47 | 0.1 | - | - | - | - | 10.0 | - | - | - |
| 274 | Asphalt pavement, square foot | 1.01 | 0.75 | 0.0 | - | - | - | - | - | - | - | - |
| 293 | Carbon steel plate 3/8 inch thick, square foot | 4.56 | 3.90 | 0.1 | - | - | 15 | - | - | - | - | - |
| 294 | Carbon steel plate 1/2 inch thick, square foot | 4.68 | 4.00 | 0.1 | - | - | 20 | - | - | - | - | - |
| 359 | Steam drum removal (fossil) | 26,079.72 | 25,934.00 | 411.6 | - | - | 480,000 | - | - | - | - | - |
| 376 | Process ductwork (8'x8' section), inches cut | 0.43 | 0.40 | 0.01 | - | - | 0.03 | - | - | - | - | - |

Electric Utility
 Steam Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|----------------------|-------------------------------------|-----------------|---------------------------|-----------------|
| Allen S. King | | | | |
| E311 | Structures & Improvements | -9.2 | 16.5 years | Jun-37 |
| E312 | Boiler Plant Equipment | -9.2 | 16.5 years | Jun-37 |
| E314 | Turbogenerator Units | -9.2 | 16.5 years | Jun-37 |
| E315 | Accessory Electric Equipment | -9.2 | 16.5 years | Jun-37 |
| E316 | Miscellaneous Power Plant Equipment | -9.2 | 16.5 years | Jun-37 |
| Red Wing | | | | |
| E311 | Structures & Improvements | -23.5 | 7.0 years | Dec-27 |
| E312 | Boiler Plant Equipment | -23.5 | 7.0 years | Dec-27 |
| E314 | Turbogenerator Units | -23.5 | 7.0 years | Dec-27 |
| E315 | Accessory Electric Equipment | -23.5 | 7.0 years | Dec-27 |
| E316 | Miscellaneous Power Plant Equipment | -23.5 | 7.0 years | Dec-27 |
| Sherco Unit 1 | | | | |
| E311 | Structures & Improvements | -15.1 | 6.0 years | Dec-26 |
| E312 | Boiler Plant Equipment | -15.1 | 6.0 years | Dec-26 |
| E314 | Turbogenerator Units | -15.1 | 6.0 years | Dec-26 |
| E315 | Accessory Electric Equipment | -15.1 | 6.0 years | Dec-26 |
| E316 | Miscellaneous Power Plant Equipment | -15.1 | 6.0 years | Dec-26 |
| Sherco Unit 2 | | | | |
| E311 | Structures & Improvements | -15.1 | 6.0 years | Dec-26 |
| E312 | Boiler Plant Equipment | -15.1 | 3.0 years | Dec-23 |
| E314 | Turbogenerator Units | -15.1 | 3.0 years | Dec-23 |
| E315 | Accessory Electric Equipment | -15.1 | 3.0 years | Dec-23 |
| E316 | Miscellaneous Power Plant Equipment | -15.1 | 3.0 years | Dec-23 |
| Sherco Unit 3 | | | | |
| E311 | Structures & Improvements | -7.9 | 14.0 years | Dec-34 |
| E312 | Boiler Plant Equipment | -7.9 | 14.0 years | Dec-34 |
| E314 | Turbogenerator Units | -7.9 | 14.0 years | Dec-34 |
| E315 | Accessory Electric Equipment | -7.9 | 14.0 years | Dec-34 |
| E316 | Miscellaneous Power Plant Equipment | -7.9 | 14.0 years | Dec-34 |
| Wilmarth | | | | |
| E311 | Structures & Improvements | -25.8 | 7.0 years | Dec-27 |
| E312 | Boiler Plant Equipment | -25.8 | 7.0 years | Dec-27 |
| E314 | Turbogenerator Units | -25.8 | 7.0 years | Dec-27 |
| E315 | Accessory Electric Equipment | -25.8 | 7.0 years | Dec-27 |
| E316 | Miscellaneous Power Plant Equipment | -25.8 | 7.0 years | Dec-27 |

Electric Utility
 Nuclear Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|--|-------------------------------------|-----------------|---------------------------|-----------------|
| Monticello | | | | |
| E302 | Franchises & Consents | * | 9.8 years | Sep-30 |
| E321 | Structures & Improvements | * | 9.8 years | Sep-30 |
| E322 | Reactor Plant Equipment | * | 9.8 years | Sep-30 |
| E323 | Turbogenerator Units | * | 9.8 years | Sep-30 |
| E324 | Accessory Electric Equipment | * | 9.8 years | Sep-30 |
| E325 | Miscellaneous Power Plant Equipment | * | 9.8 years | Sep-30 |
| Monticello - Interim Storage Facility | | | | |
| E321 | Structures & Improvements | * | 9.8 years | Sep-30 |
| E322 | Reactor Plant Equipment | * | 9.8 years | Sep-30 |
| Prairie Island Unit 1 & 2 | | | | |
| E302 | Franchises & Consents | * | 13.3 years | Apr-34 |
| E321 | Structures & Improvements | * | 13.3 years | Apr-34 |
| E322 | Reactor Plant Equipment | * | 13.3 years | Apr-34 |
| E323 | Turbogenerator Units | * | 13.3 years | Apr-34 |
| E324 | Accessory Electric Equipment | * | 13.3 years | Apr-34 |
| E325 | Miscellaneous Power Plant Equipment | * | 13.3 years | Apr-34 |
| Prairie Island - Interim Storage Facility | | | | |
| E321 | Structures & Improvements | * | 13.3 years | Apr-34 |
| E322 | Reactor Plant Equipment | * | 13.3 years | Apr-34 |

* Note: The Nuclear Decommissioning Accrual is set as an amount rather than a net salvage rate. Please see Schedule 10 for further information.

Electric Utility
 Hydro Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|------------------------|-------------------------------------|-----------------|---------------------------|-----------------|
| Hennepin Island | | | | |
| E302 | Franchises & Consents | 0.0 | 13.2 years | Feb-34 |
| E331 | Structures & Improvements | -26.7 | 13.2 years | Feb-34 |
| E332 | Reservoirs, Dams & Waterways | -26.7 | 13.2 years | Feb-34 |
| E333 | Water Wheels, Turbines & Generators | -26.7 | 13.2 years | Feb-34 |
| E334 | Accessory Electric Equipment | -26.7 | 13.2 years | Feb-34 |
| E335 | Miscellaneous Power Plant Equipment | -26.7 | 13.2 years | Feb-34 |
| St. Croix Falls | | | | |
| E331 | Structures & Improvements | -15.0 | 7.0 years | Dec-27 |
| E332 | Reservoirs, Dams & Waterways | -15.0 | 7.0 years | Dec-27 |
| Upper Dam | | | | |
| E332 | Reservoirs, Dams & Waterways | -26.7 | 13.2 years | Feb-34 |
| E335 | Miscellaneous Power Plant Equipment | -26.7 | 13.2 years | Feb-34 |

Electric Utility
 Other Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|--------------------------------------|---------------------------------------|-----------------|---------------------------|-----------------|
| Angus C. Anson Unit 2 & 3 | | | | |
| E341 | Structures & Improvements | -6.5 | 24.4 years | May-45 |
| E342 | Fuel Holders, Producers & Accessories | -11.2 | 20.0 years | Dec-40 |
| E343 | Prime Movers | -11.2 | 20.0 years | Dec-40 |
| E344 | Generators | -11.2 | 20.0 years | Dec-40 |
| E345 | Accessory Electric Equipment | -11.2 | 20.0 years | Dec-40 |
| E346 | Miscellaneous Power Plant Equipment | -11.2 | 20.0 years | Dec-40 |
| Angus C. Anson Unit 4 | | | | |
| E341 | Structures & Improvements | -6.5 | 24.4 years | May-45 |
| E342 | Fuel Holders, Producers & Accessories | -6.5 | 24.4 years | May-45 |
| E343 | Prime Movers | -6.5 | 24.4 years | May-45 |
| E344 | Generators | -6.5 | 24.4 years | May-45 |
| E345 | Accessory Electric Equipment | -6.5 | 24.4 years | May-45 |
| E346 | Miscellaneous Power Plant Equipment | -6.5 | 24.4 years | May-45 |
| Black Dog Unit 5 | | | | |
| E341 | Structures & Improvements | -10.3 | 37.3 years | Mar-58 |
| E342 | Fuel Holders, Producers & Accessories | -7.2 | 11.0 years | Dec-31 |
| E343 | Prime Movers | -7.2 | 11.0 years | Dec-31 |
| E344 | Generators | -7.2 | 11.0 years | Dec-31 |
| E345 | Accessory Electric Equipment | -7.2 | 11.0 years | Dec-31 |
| E346 | Miscellaneous Power Plant Equipment | -7.2 | 11.0 years | Dec-31 |
| Black Dog Unit 6 | | | | |
| E341 | Structures & Improvements | -10.3 | 37.3 years | Mar-58 |
| E342 | Fuel Holders, Producers & Accessories | -10.3 | 37.3 years | Mar-58 |
| E343 | Prime Movers | -10.3 | 37.3 years | Mar-58 |
| E344 | Generators | -10.3 | 37.3 years | Mar-58 |
| E345 | Accessory Electric Equipment | -10.3 | 37.3 years | Mar-58 |
| E346 | Miscellaneous Power Plant Equipment | -10.3 | 37.3 years | Mar-58 |
| Blazing Star I Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years** | Apr-45 |
| E341 | Structures & Improvements | -11.6 | 25.0 years** | Apr-45 |
| E342 | Fuel Holders, Producers & Accessories | -11.6 | 25.0 years** | Apr-45 |
| E343 | Prime Movers | -11.6 | 25.0 years** | Apr-45 |
| E344 | Generators | -11.6 | 25.0 years** | Apr-45 |
| E345 | Accessory Electric Equipment | -11.6 | 25.0 years** | Apr-45 |
| E346 | Miscellaneous Power Plant Equipment | -11.6 | 25.0 years** | Apr-45 |
| Blazing Star II Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years** | ** |
| E341 | Structures & Improvements | -10.5 | 25.0 years** | ** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years** | ** |
| E343 | Prime Movers | -10.5 | 25.0 years** | ** |
| E344 | Generators | -10.5 | 25.0 years** | ** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years** | ** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years** | ** |

Electric Utility
 Other Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|----------------------------------|---------------------------------------|-----------------|---------------------------|-----------------|
| Blue Lake Units 1 thru 4 | | | | |
| E341 | Structures & Improvements | -12.7 | 24.4 years | May-45 |
| E342 | Fuel Holders, Producers & Accessories | -30.6 | 2.5 years | Jun-23 |
| E343 | Prime Movers | -30.6 | 2.5 years | Jun-23 |
| E344 | Generators | -30.6 | 2.5 years | Jun-23 |
| E345 | Accessory Electric Equipment | -30.6 | 2.5 years | Jun-23 |
| E346 | Miscellaneous Power Plant Equipment | -30.6 | 2.5 years | Jun-23 |
| Blue Lake Units 7 & 8 | | | | |
| E341 | Structures & Improvements | -12.7 | 24.4 years | May-45 |
| E342 | Fuel Holders, Producers & Accessories | -12.7 | 24.4 years | May-45 |
| E343 | Prime Movers | -12.7 | 24.4 years | May-45 |
| E344 | Generators | -12.7 | 24.4 years | May-45 |
| E345 | Accessory Electric Equipment | -12.7 | 24.4 years | May-45 |
| E346 | Miscellaneous Power Plant Equipment | -12.7 | 24.4 years | May-45 |
| Border Winds | | | | |
| E340.1 | Wind Rights | 0.0 | 20.0 years | Dec-40 |
| E341 | Structures & Improvements | -9.5 | 20.0 years | Dec-40 |
| E342 | Fuel Holders, Producers & Accessories | -9.5 | 20.0 years | Dec-40 |
| E343 | Prime Movers | -9.5 | 20.0 years | Dec-40 |
| E344 | Generators | -9.5 | 20.0 years | Dec-40 |
| E345 | Accessory Electric Equipment | -9.5 | 20.0 years | Dec-40 |
| E346 | Miscellaneous Power Plant Equipment | -9.5 | 20.0 years | Dec-40 |
| Courtenay Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 20.9 years | Nov-41 |
| E341 | Structures & Improvements | -10.4 | 20.9 years | Nov-41 |
| E342 | Fuel Holders, Producers & Accessories | -10.4 | 20.9 years | Nov-41 |
| E343 | Prime Movers | -10.4 | 20.9 years | Nov-41 |
| E344 | Generators | -10.4 | 20.9 years | Nov-41 |
| E345 | Accessory Electric Equipment | -10.4 | 20.9 years | Nov-41 |
| E346 | Miscellaneous Power Plant Equipment | -10.4 | 20.9 years | Nov-41 |
| Crowned Ridge Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years** | ** |
| E341 | Structures & Improvements | -10.5 | 25.0 years** | ** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years** | ** |
| E343 | Prime Movers | -10.5 | 25.0 years** | ** |
| E344 | Generators | -10.5 | 25.0 years** | ** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years** | ** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years** | ** |

Electric Utility
 Other Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|--------------------------|---------------------------------------|-----------------|---------------------------|-----------------|
| Dakota Range Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years** | ** |
| E341 | Structures & Improvements | -10.5 | 25.0 years** | ** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years** | ** |
| E343 | Prime Movers | -10.5 | 25.0 years** | ** |
| E344 | Generators | -10.5 | 25.0 years** | ** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years** | ** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years** | ** |
| Foxtail Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 24.0 years | Dec-44 |
| E341 | Structures & Improvements | -9.1 | 24.0 years | Dec-44 |
| E342 | Fuel Holders, Producers & Accessories | -9.1 | 24.0 years | Dec-44 |
| E343 | Prime Movers | -9.1 | 24.0 years | Dec-44 |
| E344 | Generators | -9.1 | 24.0 years | Dec-44 |
| E345 | Accessory Electric Equipment | -9.1 | 24.0 years | Dec-44 |
| E346 | Miscellaneous Power Plant Equipment | -9.1 | 24.0 years | Dec-44 |
| Freeborn Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years** | ** |
| E341 | Structures & Improvements | -10.5 | 25.0 years** | ** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years** | ** |
| E343 | Prime Movers | -10.5 | 25.0 years** | ** |
| E344 | Generators | -10.5 | 25.0 years** | ** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years** | ** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years** | ** |
| Grand Meadow Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 12.9 years | Nov-33 |
| E341 | Structures & Improvements | -12.5 | 12.9 years | Nov-33 |
| E342 | Fuel Holders, Producers & Accessories | -12.5 | 12.9 years | Nov-33 |
| E343 | Prime Movers | -12.5 | 12.9 years | Nov-33 |
| E344 | Generators | -12.5 | 12.9 years | Nov-33 |
| E345 | Accessory Electric Equipment | -12.5 | 12.9 years | Nov-33 |
| E346 | Miscellaneous Power Plant Equipment | -12.5 | 12.9 years | Nov-33 |
| High Bridge | | | | |
| E341 | Structures & Improvements | -4.3 | 27.4 years | May-48 |
| E342 | Fuel Holders, Producers & Accessories | -4.3 | 27.4 years | May-48 |
| E343 | Prime Movers | -4.3 | 27.4 years | May-48 |
| E344 | Generators | -4.3 | 27.4 years | May-48 |
| E345 | Accessory Electric Equipment | -4.3 | 27.4 years | May-48 |
| E346 | Miscellaneous Power Plant Equipment | -4.3 | 27.4 years | May-48 |

Electric Utility
 Other Production

| Account | Description | Net Salvage (%) | Remaining Life 01/01/2021 | Retirement date |
|-------------------------------|---------------------------------------|-----------------|---------------------------|-----------------|
| Inver Hills | | | | |
| E341 | Structures & Improvements | -19.4 | 6.0 years | Dec-26 |
| E342 | Fuel Holders, Producers & Accessories | -19.4 | 6.0 years | Dec-26 |
| E343 | Prime Movers | -19.4 | 6.0 years | Dec-26 |
| E344 | Generators | -19.4 | 6.0 years | Dec-26 |
| E345 | Accessory Electric Equipment | -19.4 | 6.0 years | Dec-26 |
| E346 | Miscellaneous Power Plant Equipment | -19.4 | 6.0 years | Dec-26 |
| Lake Benton II Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 23.9 years | Nov-44 |
| E341 | Structures & Improvements | -10.8 | 23.9 years | Nov-44 |
| E342 | Fuel Holders, Producers & Accessories | -10.8 | 23.9 years | Nov-44 |
| E343 | Prime Movers | -10.8 | 23.9 years | Nov-44 |
| E344 | Generators | -10.8 | 23.9 years | Nov-44 |
| E345 | Accessory Electric Equipment | -10.8 | 23.9 years | Nov-44 |
| E346 | Miscellaneous Power Plant Equipment | -10.8 | 23.9 years | Nov-44 |
| Nobles Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 14.9 years | Nov-35 |
| E341 | Structures & Improvements | -8.5 | 14.9 years | Nov-35 |
| E342 | Fuel Holders, Producers & Accessories | -8.5 | 14.9 years | Nov-35 |
| E343 | Prime Movers | -8.5 | 14.9 years | Nov-35 |
| E344 | Generators | -8.5 | 14.9 years | Nov-35 |
| E345 | Accessory Electric Equipment | -8.5 | 14.9 years | Nov-35 |
| E346 | Miscellaneous Power Plant Equipment | -8.5 | 14.9 years | Nov-35 |
| Pleasant Valley Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 20.0 years | Dec-40 |
| E341 | Structures & Improvements | -11.7 | 20.0 years | Dec-40 |
| E342 | Fuel Holders, Producers & Accessories | -11.7 | 20.0 years | Dec-40 |
| E343 | Prime Movers | -11.7 | 20.0 years | Dec-40 |
| E344 | Generators | -11.7 | 20.0 years | Dec-40 |
| E345 | Accessory Electric Equipment | -11.7 | 20.0 years | Dec-40 |
| E346 | Miscellaneous Power Plant Equipment | -11.7 | 20.0 years | Dec-40 |
| Riverside | | | | |
| E341 | Structures & Improvements | -13.2 | 28.2 years | Feb-49 |
| E342 | Fuel Holders, Producers & Accessories | -13.2 | 28.2 years | Feb-49 |
| E343 | Prime Movers | -13.2 | 28.2 years | Feb-49 |
| E344 | Generators | -13.2 | 28.2 years | Feb-49 |
| E345 | Accessory Electric Equipment | -13.2 | 28.2 years | Feb-49 |
| E346 | Miscellaneous Power Plant Equipment | -13.2 | 28.2 years | Feb-49 |
| Wind-to-Battery System | | | | |
| E348.1 | Energy Storage Equipment | -135.6 | 0.0 years | Jan-21 |

**Note: Remaining Lives shown for Blazing Star I and II, Crowned Ridge, Freeborn, and Dakota Range are as of the facilities' in-service dates, expected in 2020 and 2021.

Electric Utility
 Other Production (on acquisition dockets as approved by the Commission)

| Account | Description | Proposed Net Salvage (%) | Proposed Remaining Life as of Estimated Acquisition Date | Retirement date |
|-----------------------------|---------------------------------------|--------------------------|--|-----------------|
| Community Wind North | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years*** | *** |
| E341 | Structures & Improvements | -10.5 | 25.0 years*** | *** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years*** | *** |
| E343 | Prime Movers | -10.5 | 25.0 years*** | *** |
| E344 | Generators | -10.5 | 25.0 years*** | *** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years*** | *** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years*** | *** |
| Jeffers Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years*** | *** |
| E341 | Structures & Improvements | -10.5 | 25.0 years*** | *** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years*** | *** |
| E343 | Prime Movers | -10.5 | 25.0 years*** | *** |
| E344 | Generators | -10.5 | 25.0 years*** | *** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years*** | *** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years*** | *** |
| Mower Wind | | | | |
| E340.1 | Wind Rights | 0.0 | 25.0 years*** | *** |
| E341 | Structures & Improvements | -10.5 | 25.0 years*** | *** |
| E342 | Fuel Holders, Producers & Accessories | -10.5 | 25.0 years*** | *** |
| E343 | Prime Movers | -10.5 | 25.0 years*** | *** |
| E344 | Generators | -10.5 | 25.0 years*** | *** |
| E345 | Accessory Electric Equipment | -10.5 | 25.0 years*** | *** |
| E346 | Miscellaneous Power Plant Equipment | -10.5 | 25.0 years*** | *** |

***Estimated acquisition dates are October 2020 for Community Wind North and Jeffers Wind, and December 2020 for Mower Wind.

Electric Steam Production

| FERC Account | Plant Balance 1/1/2020 (1) | Present | | Proposed | | Proposed Less Present (6) |
|-------------------------------|----------------------------------|----------------------|--|----------------------|--|---------------------------------|
| | | Net Salv % (2) | Estimated Net Salvage in Reserve at End of Life (3) | Net Salv % (4) | Estimated Net Salvage in Reserve at End of Life (5) | |
| | | | | | | |
| Allen S. King | | | | | | |
| E311 | \$ 39,623,999 | -5.5 | \$ 2,179,320 | -9.2 | \$ 3,654,407 | \$ 1,475,087 |
| E312 | \$ 524,338,681 | -5.5 | \$ 28,838,627 | -9.2 | \$ 48,358,238 | \$ 19,519,611 |
| E314 | \$ 94,114,439 | -5.5 | \$ 5,176,294 | -9.2 | \$ 8,679,902 | \$ 3,503,608 |
| E315 | \$ 46,992,609 | -5.5 | \$ 2,584,593 | -9.2 | \$ 4,333,992 | \$ 1,749,399 |
| E316 | \$ 7,894,024 | -5.5 | \$ 434,171 | -9.2 | \$ 728,043 | \$ 293,872 |
| | \$ 712,963,751 | | \$ 39,213,006 | | \$ 65,754,582 | \$ 26,541,576 |
| | | | From 2020 Dismantling Study for King | -9.2% | \$ 65,754,582 | |
| Red Wing | | | | | | |
| E311 | \$ 12,459,336 | -23.3 | \$ 2,903,025 | -23.5 | \$ 2,926,804 | \$ 23,778 |
| E312 | \$ 47,058,942 | -23.3 | \$ 10,964,734 | -23.5 | \$ 11,054,545 | \$ 89,811 |
| E314 | \$ 3,298,153 | -23.3 | \$ 768,470 | -23.5 | \$ 774,764 | \$ 6,294 |
| E315 | \$ 1,905,550 | -23.3 | \$ 443,993 | -23.5 | \$ 447,630 | \$ 3,637 |
| E316 | \$ 1,470,455 | -23.3 | \$ 342,616 | -23.5 | \$ 345,422 | \$ 2,806 |
| | \$ 66,192,436 | | \$ 15,422,838 | | \$ 15,549,165 | \$ 126,327 |
| | | | From 2020 Dismantling Study for Red Wing | -23.5% | \$ 15,549,165 | |
| Sherco Units 1 & 2 | | | | | | |
| E311 | \$ 95,870,631 | -5.1 | \$ 4,889,402 | -15.1 | \$ 14,486,134 | \$ 9,596,732 |
| E312 | \$ 432,257,219 | -5.1 | \$ 22,045,118 | -15.1 | \$ 65,314,435 | \$ 43,269,317 |
| E314 | \$ 126,723,103 | -5.1 | \$ 6,462,878 | -15.1 | \$ 19,147,969 | \$ 12,685,091 |
| E315 | \$ 53,734,094 | -5.1 | \$ 2,740,439 | -15.1 | \$ 8,119,267 | \$ 5,378,829 |
| E316 | \$ 12,237,819 | -5.1 | \$ 624,129 | -15.1 | \$ 1,849,145 | \$ 1,225,016 |
| | \$ 720,822,866 | | \$ 36,761,966 | | \$ 108,916,950 | \$ 72,154,984 |
| | | | From 2020 Dismantling Study for Sherco 1 & 2 | -15.1% | \$ 108,916,950 | |
| Sherco Unit 3 (*) | | | | | | |
| E311 | \$ 132,758,983 | -4.3 | \$ 5,708,636 | -7.9 | \$ 10,438,271 | \$ 4,729,634 |
| E312 | \$ 419,348,026 | -4.3 | \$ 18,031,965 | -7.9 | \$ 32,971,540 | \$ 14,939,575 |
| E314 | \$ 88,618,830 | -4.3 | \$ 3,810,610 | -7.9 | \$ 6,967,719 | \$ 3,157,110 |
| E315 | \$ 83,566,721 | -4.3 | \$ 3,593,369 | -7.9 | \$ 6,570,494 | \$ 2,977,125 |
| E316 | \$ 31,675,940 | -4.3 | \$ 1,362,065 | -7.9 | \$ 2,490,544 | \$ 1,128,478 |
| | \$ 755,968,499 | | \$ 32,506,645 | | \$ 59,438,567 | \$ 26,931,921 |
| | | | From 2020 Dismantling Study for Sherco 3 | -7.9% | \$ 59,438,567 | |
| Wilmarth | | | | | | |
| E311 | \$ 11,196,195 | -23.0 | \$ 2,575,125 | -25.8 | \$ 2,888,315 | \$ 313,190 |
| E312 | \$ 41,907,289 | -23.0 | \$ 9,638,677 | -25.8 | \$ 10,810,944 | \$ 1,172,267 |
| E314 | \$ 6,214,894 | -23.0 | \$ 1,429,426 | -25.8 | \$ 1,603,274 | \$ 173,848 |
| E315 | \$ 1,541,817 | -23.0 | \$ 354,618 | -25.8 | \$ 397,747 | \$ 43,129 |
| E316 | \$ 787,526 | -23.0 | \$ 181,131 | -25.8 | \$ 203,160 | \$ 22,029 |
| | \$ 61,647,720 | | \$ 14,178,976 | | \$ 15,903,439 | \$ 1,724,464 |
| | | | From 2020 Dismantling Study for Wilmarth | -25.8% | \$ 15,903,439 | |
| Total Steam Production | \$ 2,317,595,273 | | \$ 138,083,431 | | \$ 265,562,703 | \$ 127,479,272 |

* Amounts reported in this section are for the entire unit, not just Xcel Energy's share.

Electric Hydro Production

| FERC Account | Present | | | Proposed | | |
|-------------------------------|----------------------|----------|-----------------------------------|------------------|-----------------------------------|-----------------------|
| | Plant Balance | Net Salv | Estimated Net | Net Salv | Estimated Net | Proposed Less Present |
| | 1/1/2020 | % | Salvage in Reserve at End of Life | % | Salvage in Reserve at End of Life | |
| (1) | (2) | (3) | (4) | (5) | (6) | |
| Hennepin Island | | | | | | |
| E302 | \$ 2,857,039 | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E331 | \$ 1,407,680 | -30.0 | \$ 422,304 | -26.7 | \$ 375,837 | \$ (46,467) |
| E332 | \$ 4,398,484 | -30.0 | \$ 1,319,545 | -26.7 | \$ 1,174,354 | \$ (145,191) |
| E333 | \$ 10,177,067 | -30.0 | \$ 3,053,120 | -26.7 | \$ 2,717,182 | \$ (335,938) |
| E334 | \$ 3,256,972 | -30.0 | \$ 977,092 | -26.7 | \$ 869,581 | \$ (107,510) |
| E335 | \$ 37,779 | -30.0 | \$ 11,334 | -26.7 | \$ 10,087 | \$ (1,247) |
| | \$ 22,135,020 | | \$ 5,783,394 | | \$ 5,147,041 | \$ (636,353) |
| | | | | -26.7% Note 1 | \$ 5,147,041 Note 2 | |
| St. Croix Falls | | | | | | |
| E331 | \$ 37,924 | -7.5 | \$ 2,844 | -15.0 | \$ 5,689 | \$ 2,844 |
| E332 | \$ 2,176,614 | -7.5 | \$ 163,246 | -15.0 | \$ 326,492 | \$ 163,246 |
| | \$ 2,214,538 | | \$ 166,090 | | \$ 332,181 | \$ 166,090 |
| | | | | -15.0% Note 3 | \$ 332,181 | |
| Upper Dam | | | | | | |
| E332 | \$ 4,491,476 | -30.0 | \$ 1,347,443 | -26.7 | \$ 1,199,182 | \$ (148,261) |
| E335 | \$ 23,046 | -30.0 | \$ 6,914 | -26.7 | \$ 6,153 | \$ (761) |
| | \$ 4,514,522 | | \$ 1,354,357 | | \$ 1,205,335 | \$ (149,021) |
| | | | | -26.7% Note 2 | \$ 1,205,335 Note 2 | |
| Total Hydro Production | <u>\$ 28,864,079</u> | | <u>\$ 7,303,841</u> | | <u>\$ 6,684,557</u> | <u>\$ (619,284)</u> |

Note 1: To calculate the proposed net salvage percent, FERC 302 Licenses was excluded from the plant balance as removal costs do not apply to this account.

Note 2: The dismantling costs for the Upper Dam are not separately stated in the TLG Dismantling Report. Therefore, the \$6.4M TLG estimate is allocated based on plant balance to each portion in order to calculate the net salvage percent.

Note 3: St. Croix Falls is mainly located in Wisconsin but a portion of the facility is in Minnesota. The balances above represent the assets included on NSP-Minnesota's records. This facility was not included in the TLG Dismantling Study. Therefore, we are using the net salvage rate for FERC 332 approved by the Public Service Commission of Wisconsin.

Electric Other Production

| FERC Account | Present | | | Proposed | | |
|---------------------------------------|--|----------|-----------------------------------|----------|-----------------------------------|-----------------------|
| | Plant Balance | Net Salv | Estimated Net | Net Salv | Estimated Net | Proposed Less Present |
| | 1/1/2020 | % | Salvage in Reserve at End of Life | % | Salvage in Reserve at End of Life | |
| (1) | (2) | (3) | (4) | (5) | (6) | |
| Angus C. Anson Units 2 & 3 | | | | | | |
| E341 | \$ - | -4.5 | \$ - | -11.2 | \$ - | \$ - |
| E342 | \$ 1,105,599 | -4.4 | \$ 48,646 | -11.2 | \$ 123,498 | \$ 74,852 |
| E344 | \$ 79,691,780 | -4.4 | \$ 3,506,438 | -11.2 | \$ 8,901,759 | \$ 5,395,321 |
| E345 | \$ 3,571,653 | -4.4 | \$ 157,153 | -11.2 | \$ 398,962 | \$ 241,809 |
| E346 | \$ 2,629,376 | -4.4 | \$ 115,693 | -11.2 | \$ 293,708 | \$ 178,015 |
| | <u>\$ 86,998,409</u> | | <u>\$ 3,827,930</u> | | <u>\$ 9,717,926</u> | <u>\$ 5,889,996</u> |
| | From 2020 Dismantling Study for Angus Anson Units 2 & 3 | | | -11.2% | \$ 9,717,926 | |
| Angus C. Anson Unit 4 | | | | | | |
| E341 | \$ 7,721,804 | -4.5 | \$ 347,481 | -6.5 | \$ 502,271 | \$ 154,790 |
| E342 | \$ 13,506 | -4.5 | \$ 608 | -6.5 | \$ 879 | \$ 271 |
| E344 | \$ 33,545,732 | -4.5 | \$ 1,509,558 | -6.5 | \$ 2,182,011 | \$ 672,453 |
| E345 | \$ 4,955,471 | -4.5 | \$ 222,996 | -6.5 | \$ 322,333 | \$ 99,337 |
| E346 | \$ 20,727 | -4.5 | \$ 933 | -6.5 | \$ 1,348 | \$ 415 |
| | <u>\$ 46,257,240</u> | | <u>\$ 2,081,576</u> | | <u>\$ 3,008,842</u> | <u>\$ 927,266</u> |
| | From 2020 Dismantling Study for Angus Anson 4 | | | -6.5% | \$ 3,008,842 | |
| Black Dog Unit 5 | | | | | | |
| E342 | \$ 12,546,877 | -2.5 | \$ 313,672 | -7.2 | \$ 901,458 | \$ 587,786 |
| E343 | \$ 23,430,244 | -2.5 | \$ 585,756 | -7.2 | \$ 1,683,397 | \$ 1,097,641 |
| E344 | \$ 127,512,984 | -2.5 | \$ 3,187,825 | -7.2 | \$ 9,161,451 | \$ 5,973,626 |
| E345 | \$ 27,865,573 | -2.5 | \$ 696,639 | -7.2 | \$ 2,002,063 | \$ 1,305,424 |
| E346 | \$ 5,536,330 | -2.5 | \$ 138,408 | -7.2 | \$ 397,770 | \$ 259,362 |
| | <u>\$ 196,892,009</u> | | <u>\$ 4,922,300</u> | | <u>\$ 14,146,139</u> | <u>\$ 9,223,839</u> |
| | From 2020 Dismantling Study for Black Dog Unit 5 | | | -7.2% | \$ 14,146,139 | |
| | | | | | Note 1 | |
| Black Dog Unit 6 | | | | | | |
| E341 | \$ 42,792,538 | -2.5 | \$ 1,069,813 | -10.3 | \$ 4,417,922 | \$ 3,348,109 |
| E341 | \$ 13,806,954 | -5.0 | \$ 690,348 | -10.3 | \$ 1,425,437 | \$ 735,089 |
| E342 | \$ 9,512,175 | -5.0 | \$ 475,609 | -10.3 | \$ 982,042 | \$ 506,433 |
| E344 | \$ 62,269,695 | -5.0 | \$ 3,113,485 | -10.3 | \$ 6,428,753 | \$ 3,315,269 |
| E345 | \$ 10,978,424 | -5.0 | \$ 548,921 | -10.3 | \$ 1,133,418 | \$ 584,497 |
| E346 | \$ 5,662,089 | -5.0 | \$ 283,104 | -10.3 | \$ 584,557 | \$ 301,452 |
| | <u>\$ 145,021,874</u> | | <u>\$ 6,181,280</u> | | <u>\$ 14,972,128</u> | <u>\$ 8,790,848</u> |
| | From 2020 Dismantling Study for Black Dog Unit 6 | | | -10.3% | \$ 14,972,128 | |
| | | | | | Note 1 | |
| Blazing Star I | | | | | | |
| E340 | \$ - | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 22,224,648 | -8.5 | \$ 1,889,095 | -11.6 | \$ 2,568,828 | \$ 679,733 |
| E342 | \$ - | -8.5 | \$ - | -11.6 | \$ - | \$ - |
| E344 | \$ 268,420,378 | -8.5 | \$ 22,815,732 | -11.6 | \$ 31,025,271 | \$ 8,209,539 |
| E345 | \$ 10,136,822 | -8.5 | \$ 861,630 | -11.6 | \$ 1,171,661 | \$ 310,031 |
| E346 | \$ - | -8.5 | \$ - | -11.6 | \$ - | \$ - |
| | <u>\$ 300,781,847</u> | | <u>\$ 25,566,457</u> | | <u>\$ 34,765,760</u> | <u>\$ 9,199,303</u> |
| | From 2020 Dismantling Study for Blazing Star I | | | -11.6% | \$ 34,765,760 | |
| | | | | | Notes 2 & 3 | |
| Blue Lake Units 1 thru 4 | | | | | | |
| E341 | \$ - | -5.2 | \$ - | -30.6 | \$ - | \$ - |
| E342 | \$ 1,343,354 | -11.9 | \$ 159,859 | -30.6 | \$ 410,974 | \$ 251,115 |
| E344 | \$ 21,207,661 | -11.9 | \$ 2,523,712 | -30.6 | \$ 6,488,094 | \$ 3,964,383 |
| E345 | \$ 1,508,868 | -11.9 | \$ 179,555 | -30.6 | \$ 461,610 | \$ 282,055 |
| E346 | \$ 498,898 | -11.9 | \$ 59,369 | -30.6 | \$ 152,629 | \$ 93,260 |
| | <u>\$ 24,558,781</u> | | <u>\$ 2,922,495</u> | | <u>\$ 7,513,308</u> | <u>\$ 4,590,813</u> |
| | From 2020 Dismantling Study for Blue Lake Units 1 thru 4 | | | -30.6% | \$ 7,513,308 | |

Electric Other Production

| FERC Account | Present | | | Proposed | | |
|----------------------------------|---|----------|--------------------------------------|-------------|--------------------------------------|---------------------|
| | Plant Balance | Net Salv | Estimated Net | Net Salv | Estimated Net | Proposed Less |
| | 1/1/2020 | % | Salvage in Reserve at End of Life | % | Salvage in Reserve at End of Life | |
| (1) | (2) | (3) | (4) | (5) | (6) | |
| Blue Lake Units 7 & 8 | | | | | | |
| E341 | \$ 1,703,454 | -5.2 | \$ 88,580 | -12.7 | \$ 216,500 | \$ 127,920 |
| E342 | \$ 47,986 | -5.2 | \$ 2,495 | -12.7 | \$ 6,099 | \$ 3,603 |
| E344 | \$ 62,361,317 | -5.2 | \$ 3,242,788 | -12.7 | \$ 7,925,783 | \$ 4,682,995 |
| E345 | \$ 7,907,322 | -5.2 | \$ 411,181 | -12.7 | \$ 1,004,978 | \$ 593,797 |
| E346 | \$ 32,958 | -5.2 | \$ 1,714 | -12.7 | \$ 4,189 | \$ 2,475 |
| | <u>\$ 72,053,037</u> | | <u>\$ 3,746,758</u> | | <u>\$ 9,157,548</u> | <u>\$ 5,410,790</u> |
| | From 2020 Dismantling Study for Blue Lake 7 & 8 | | | -12.7% | \$ 9,157,548 | |
| Border Winds | | | | | | |
| E340 | \$ - | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 22,226,432 | -6.6 | \$ 1,466,944 | -9.5 | \$ 2,103,424 | \$ 636,479 |
| E342 | \$ - | -6.6 | \$ - | -9.5 | \$ - | \$ - |
| E344 | \$ 207,402,451 | -6.6 | \$ 13,688,562 | -9.5 | \$ 19,627,769 | \$ 5,939,208 |
| E345 | \$ 34,794,649 | -6.6 | \$ 2,296,447 | -9.5 | \$ 3,292,832 | \$ 996,385 |
| E346 | \$ 228,153 | -6.6 | \$ 15,058 | -9.5 | \$ 21,592 | \$ 6,533 |
| | <u>\$ 264,651,685</u> | | <u>\$ 17,467,011</u> | | <u>\$ 25,045,616</u> | <u>\$ 7,578,605</u> |
| | From 2020 Dismantling Study for Border Winds | | | -9.5% | \$ 25,045,616 | |
| | | | | Notes 2 & 4 | | |
| Courtenay Wind | | | | | | |
| E340 | \$ 2,085,661 | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 7,621,664 | -6.9 | \$ 525,895 | -10.4 | \$ 793,101 | \$ 267,206 |
| E342 | \$ - | -6.9 | \$ - | -10.4 | \$ - | \$ - |
| E344 | \$ 262,278,975 | -6.9 | \$ 18,097,249 | -10.4 | \$ 27,292,436 | \$ 9,195,186 |
| E345 | \$ 9,591,089 | -6.9 | \$ 661,785 | -10.4 | \$ 998,037 | \$ 336,252 |
| E346 | \$ 36,482 | -6.9 | \$ 2,517 | -10.4 | \$ 3,796 | \$ 1,279 |
| | <u>\$ 281,613,870</u> | | <u>\$ 19,287,446</u> | | <u>\$ 29,087,370</u> | <u>\$ 9,799,924</u> |
| | From 2020 Dismantling Study for Courtenay | | | -10.4% | \$ 29,087,370 | |
| | | | | Notes 2 & 4 | | |
| Foxtail Wind | | | | | | |
| E341 | \$ 33,969,734 | -6.4 | \$ 2,174,063 | -9.1 | \$ 3,080,110 | \$ 906,047 |
| E344 | \$ 211,841,413 | -6.4 | \$ 13,557,850 | -9.1 | \$ 19,208,123 | \$ 5,650,272 |
| | <u>\$ 245,811,147</u> | | <u>\$ 15,731,913</u> | | <u>\$ 22,288,232</u> | <u>\$ 6,556,319</u> |
| | From 2020 Dismantling Study for Foxtail | | | -9.1% | \$ 22,288,232 | |
| | | | | Note 4 | | |
| Grand Meadow Wind | | | | | | |
| E340 | \$ 10,672,452 | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 5,589,546 | -8.7 | \$ 486,291 | -12.5 | \$ 698,173 | \$ 211,882 |
| E342 | \$ - | -8.7 | \$ - | -12.5 | \$ - | \$ - |
| E344 | \$ 182,577,054 | -8.7 | \$ 15,884,204 | -12.5 | \$ 22,805,137 | \$ 6,920,933 |
| E345 | \$ 12,064,305 | -8.7 | \$ 1,049,595 | -12.5 | \$ 1,506,915 | \$ 457,321 |
| E346 | \$ 207,761 | -8.7 | \$ 18,075 | -12.5 | \$ 25,951 | \$ 7,876 |
| | <u>\$ 211,111,119</u> | | <u>\$ 17,438,164</u> | | <u>\$ 25,036,176</u> | <u>\$ 7,598,012</u> |
| | From 2020 Dismantling Study for Grand Meadow | | | -12.5% | \$ 25,036,176 | |
| | | | | Note 2 | | |
| High Bridge | | | | | | |
| E341 | \$ 71,113,002 | -3.1 | \$ 2,204,503 | -4.3 | \$ 3,039,386 | \$ 834,883 |
| E342 | \$ 232,410 | -3.1 | \$ 7,205 | -4.3 | \$ 9,933 | \$ 2,729 |
| E343 | \$ 66,361,540 | -3.1 | \$ 2,057,208 | -4.3 | \$ 2,836,308 | \$ 779,100 |
| E344 | \$ 200,486,360 | -3.1 | \$ 6,215,077 | -4.3 | \$ 8,568,833 | \$ 2,353,756 |
| E345 | \$ 52,024,030 | -3.1 | \$ 1,612,745 | -4.3 | \$ 2,223,519 | \$ 610,774 |
| E346 | \$ 7,144,763 | -3.1 | \$ 221,488 | -4.3 | \$ 305,369 | \$ 83,881 |
| | <u>\$ 397,362,104</u> | | <u>\$ 12,318,225</u> | | <u>\$ 16,983,348</u> | <u>\$ 4,665,123</u> |
| | From 2020 Dismantling Study for High Bridge | | | -4.3% | \$ 16,983,348 | |

Electric Other Production

| FERC Account | Present | | | Proposed | | |
|-----------------------------|---|----------------|-----------------------|----------------|-----------------------|-----------------------|
| | Plant Balance | Net Salv | Estimated Net | Net Salv | Estimated Net | Proposed Less |
| | 1/1/2020 | % | Salvage in Reserve | % | Salvage in Reserve | |
| (1) | (2) | at End of Life | (4) | at End of Life | Present | |
| | | | (3) | | (5) | (6) |
| Inver Hills | | | | | | |
| E341 | \$ 1,618,514 | -11.0 | \$ 178,037 | -19.4 | \$ 314,518 | \$ 136,481 |
| E342 | \$ 614,949 | -11.0 | \$ 67,644 | -19.4 | \$ 119,500 | \$ 51,855 |
| E344 | \$ 53,436,050 | -11.0 | \$ 5,877,965 | -19.4 | \$ 10,383,953 | \$ 4,505,988 |
| E345 | \$ 4,314,473 | -11.0 | \$ 474,592 | -19.4 | \$ 838,409 | \$ 363,817 |
| E346 | \$ 618,880 | -11.0 | \$ 68,077 | -19.4 | \$ 120,264 | \$ 52,187 |
| | <u>\$ 60,602,865</u> | | <u>\$ 6,666,315</u> | | <u>\$ 11,776,644</u> | <u>\$ 5,110,329</u> |
| | From 2020 Dismantling Study for Inver Hills | | | -19.4% | \$ 11,776,644 | |
| Lake Benton II Wind | | | | | | |
| E340 | \$ 146,853 | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 32,138,690 | -8.5 | \$ 2,731,789 | -10.8 | \$ 3,460,198 | \$ 728,410 |
| E344 | \$ 113,291,566 | -8.5 | \$ 9,629,783 | -10.8 | \$ 12,197,488 | \$ 2,567,705 |
| E345 | \$ 10,883,094 | -8.5 | \$ 925,063 | -10.8 | \$ 1,171,724 | \$ 246,661 |
| | <u>\$ 156,460,203</u> | | <u>\$ 13,286,635</u> | | <u>\$ 16,829,410</u> | <u>\$ 3,542,775</u> |
| | From 2020 Dismantling Study for Lake Benton II | | | -10.8% | \$ 16,829,410 | |
| | | | | Note 2 | | |
| Nobles Wind | | | | | | |
| E340 | \$ 3,884,834 | 0.0 | \$ - | 0.0 | \$ - | \$ - |
| E341 | \$ 13,536,911 | -8.7 | \$ 1,177,711 | -8.5 | \$ 1,145,197 | \$ (32,514) |
| E344 | \$ 471,140,614 | -8.7 | \$ 40,989,233 | -8.5 | \$ 39,857,601 | \$ (1,131,633) |
| E345 | \$ 29,938,414 | -8.7 | \$ 2,604,642 | -8.5 | \$ 2,532,733 | \$ (71,909) |
| E346 | \$ 627,971 | -8.7 | \$ 54,633 | -8.5 | \$ 53,125 | \$ (1,508) |
| | <u>\$ 519,128,745</u> | | <u>\$ 44,826,220</u> | | <u>\$ 43,588,656</u> | <u>\$ (1,237,564)</u> |
| | From 2020 Dismantling Study for Nobles | | | -8.5% | \$ 43,588,656 | |
| | | | | Note 2 | | |
| Pleasant Valley Wind | | | | | | |
| E341 | \$ 25,806,960 | -8.5 | \$ 2,193,592 | -11.7 | \$ 3,008,920 | \$ 815,329 |
| E344 | \$ 263,644,922 | -8.5 | \$ 22,409,818 | -11.7 | \$ 30,739,246 | \$ 8,329,428 |
| E345 | \$ 42,507,679 | -8.5 | \$ 3,613,153 | -11.7 | \$ 4,956,113 | \$ 1,342,960 |
| E346 | \$ 292,092 | -8.5 | \$ 24,828 | -11.7 | \$ 34,056 | \$ 9,228 |
| | <u>\$ 332,251,652</u> | | <u>\$ 28,241,390</u> | | <u>\$ 38,738,336</u> | <u>\$ 10,496,945</u> |
| | From 2020 Dismantling Study for Pleasant Valley | | | -11.7% | \$ 38,738,336 | |
| Riverside | | | | | | |
| E341 | \$ 52,441,362 | -5.0 | \$ 2,622,068 | -13.2 | \$ 6,923,149 | \$ 4,301,081 |
| E342 | \$ 1,033,460 | -5.0 | \$ 51,673 | -13.2 | \$ 136,434 | \$ 84,761 |
| E343 | \$ 50,662,922 | -5.0 | \$ 2,533,146 | -13.2 | \$ 6,688,365 | \$ 4,155,219 |
| E344 | \$ 154,911,011 | -5.0 | \$ 7,745,551 | -13.2 | \$ 20,450,881 | \$ 12,705,330 |
| E345 | \$ 40,361,888 | -5.0 | \$ 2,018,094 | -13.2 | \$ 5,328,454 | \$ 3,310,359 |
| E346 | \$ 9,075,926 | -5.0 | \$ 453,796 | -13.2 | \$ 1,198,176 | \$ 744,380 |
| | <u>\$ 308,486,568</u> | | <u>\$ 15,424,328</u> | | <u>\$ 40,725,459</u> | <u>\$ 25,301,130</u> |
| | From 2020 Dismantling Study for Riverside | | | -13.2% | \$ 40,725,459 | |
| Total Other Production | <u>\$ 3,650,043,156</u> | | <u>\$ 239,936,445</u> | | <u>\$ 363,380,897</u> | <u>\$ 123,444,452</u> |

Note 1: As TLG's estimate was for the entire Black Dog site including the former steam units, the Company performed analysis and calculations to determine the portions attributable to the steam demolition versus the future removal for the other production units and common/shared facilities.

Note 2: To calculate the proposed net salvage percent, FERC 340 Wind Rights was excluded from the plant balance as removal costs do not apply to this account.

Note 3: Blazing Star I's plant balance is as of the in-service date in April 2020.

Note 4: Border, Courtenay, and Foxtail wind farms are located in North Dakota which only requires removal to a depth of 48". Thus, the 48" removal scenario was used to calculate the net salvage rate.

NORTHERN STATES POWER COMPANY
A MINNESOTA CORPORATION
TRANSMISSION, DISTRIBUTION AND GENERAL
ELECTRIC, GAS AND COMMON
DEPRECIATION RATE STUDY
July 2017



**NORTHERN STATES POWER COMPANY
A MINNESOTA CORPORATION
TRANSMISSION, DISTRIBUTION AND GENERAL
ELECTRIC, GAS AND COMMON
DEPRECIATION RATE STUDY
EXECUTIVE SUMMARY**

Northern States Power Company, a Minnesota corporation (“NSP” or “Company”), engaged Alliance Consulting Group to conduct a depreciation study of the Company’s Electric, Gas, and Common transmission, distribution, and general utility plant depreciable assets as of January 1, 2017. This analysis recommends a number of changes in the lives of various types of assets, by account number under the FERC Uniform System of Accounts. The changes in lives discussed in this Executive Summary are discussed in more detail in the study.

For Electric Transmission, Distribution and General Plant depreciable accounts, the lives for many of the accounts increased. There are 18 accounts, nine that have increasing lives, three that have decreasing lives, and the lives of the other six accounts were unchanged. The account with the greatest change in life is account 354 Transmission Towers and Fixtures which moved 5 years longer in life. There is also a trend toward higher negative net salvage with 12 accounts increasing (i.e. more negative) their negative net salvage and the remaining six accounts remaining unchanged. The account with the largest increase in negative net salvage is Account 364 Distribution Poles, where the net salvage moved from negative 100 percent to a negative 120 percent, which equates to a change of 20 percent.

For Electric Amortized Plant, there are 20 accounts including one intangible account, 15 general plant accounts, and four distribution accounts. Most amortization periods are remaining the same, with amortization lives increasing for Account 391 Network Equipment, Account 397 General Communication Equipment, and Account 397 General Two Way and decreasing lives for Accounts 392

Transportation Equipment for Light Trucks, Trailers, and Heavy Trucks. Net salvage increased (became more negative) for three accounts: Account 368 Distribution Line Capacitors, Account 370.1 Distribution Meters-Old and Account 370 Distribution Meters. Net salvage became positive in Accounts 392 (all subaccounts) and 396. The largest change was in Account 392 General Trailers changing from zero percent to positive 20 percent for net salvage.

For Gas Transmission, Distribution and General Plant depreciable accounts, there are 11 accounts including six that have increasing lives and five accounts that were unchanged. The accounts with the greatest change in life were Account 366 Transmission Structures and Improvements and Account 376 Distribution Mains-Metallic which moved 13 and 12 years longer in life respectively. There are changes in net salvage with four accounts increasing (i.e. more negative) their negative net salvage, two accounts decreasing (i.e. less negative) their negative net salvage, and the remaining five accounts remaining unchanged. The accounts with the greatest change in net salvage were Account 375 Distribution Structures and Improvements, Account 376 Distribution Mains-Metallic, and Account 376 Distribution Mains-Plastic that all increased by five percent.

For Gas Amortized Plant, there are 19 accounts including two intangible accounts, 14 general plant accounts, and three distribution accounts. Most amortization periods remain the same, and amortization periods increase for Account 391 General Network Equipment, Account 397 General Communication Equipment, and Account 397 General Two Way and decreasing lives for Accounts 392 Transportation Equipment for Light Trucks, Trailers, and Heavy Trucks. Net salvage increased (more negative) for two accounts: Account 381 Distribution Meters and Account 383 Distribution House Regulators. Net salvage became positive in Accounts 392 (all subaccounts) and 396. The largest change was in Account 392 General Trailers changing from zero percent to positive 20 percent for net salvage.

For Common Plant, there are 20 accounts including two depreciable accounts and 18 amortized accounts of which there are five intangible accounts and 13

general plant accounts. The life for Account 390 Structures and Improvements became shorter, and many amortization periods remain the same. Amortization periods increased for Account 391 General Network Equipment, Account 397 General Communication Equipment, and Account 397 General Two Way and decreased for Accounts 392 Transportation Equipment for Light Trucks, Trailers, and Heavy Trucks. Net salvage became positive in Accounts 392 (all subaccounts) and Account 396 Power Operated Equipment. The largest change was in Account 392 Transportation Equipment for Trailers changing from zero percent to positive 20 percent for net salvage. Amortization rates were updated to reflect any imbalance between book and theoretical reserves.

For life and net salvage analysis, the study used total Company results. After selecting life and net salvage parameters, those depreciation parameters were applied to the total Company plant using the Minnesota approved depreciation rates to provide the reserve balances for transmission and general plant. Plant balances for Minnesota state-specific assets and their reserve balances using the Minnesota approved depreciation rates were used for Electric and Gas Distribution plant.

All annual accrual rates were determined using the straight line, broad group, remaining life depreciation system. Depreciation and amortization rates reflect any imbalance between actual and theoretical reserves. Use of the remaining life depreciation system adds a self-correcting mechanism, which accounts for any differences between theoretical and book depreciation reserve over the remaining life of each depreciable group.

Given the many changes in life and net salvage in this study, this study recommends a reallocation of book reserve by plant account within each function. This reallocation does not change the total reserve within each function. Rather, reallocating the reserve within a function realigns the depreciation reserve balances within each function using the proposed life and net salvage parameters.

This study recommends an overall decrease of approximately \$7.4 million in annual depreciation expense compared to the depreciation rates currently in effect after implementing the Minnesota Public Utilities Commission order in Docket No.

E,G002/D-12-858. This consists of an increase of \$3.7 million in annual depreciation expense for Electric facilities, a decrease of \$7.1 million in annual depreciation expense for Gas facilities compared to the depreciation rates currently in effect, and a decrease of approximately \$4.0 million for Common plant in annual depreciation expense. The overall decrease in depreciation expense is driven by changes in life and net salvage as well as treatment of any book and theoretical reserve imbalance. Appendix B demonstrates the change in depreciation expense for the various accounts. If approved by the Commission, the changes recommended in the study would be used by the Company effective January 1, 2018.

NORTHERN STATES POWER COMPANY
A MINNESOTA CORPORATION
TRANSMISSION, DISTRIBUTION, AND GENERAL PLANT
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PURPOSE

The purpose of this study is to develop depreciation rates for the period beginning January 1, 2018 for the depreciable property as recorded on the books of Northern States Power Company, a Minnesota corporation (“NSP” or “Company”), at January 1, 2017. The account based depreciation rates were designed to recover the total remaining undepreciated investment, adjusted for net salvage, over the remaining life of NSP’s property on a straight-line basis. Non-depreciable property and production plant were excluded from this study.

STUDY RESULTS

Overall depreciation rates for all NSP depreciable property are shown in Appendix A. These rates translate into an annual depreciation accrual of \$303.7 million based on NSP depreciable investment at January 1, 2017. The annual equivalent depreciation expense calculated by the same method using the approved rates was \$310.6 million. These proposed rates translate into an annual depreciation accrual for Electric of \$220.5 million, Gas of \$27.4 million, and Common of \$55.8 million. Appendix A demonstrates the development of the annual depreciation rates and accruals by account. Appendix B presents a comparison of approved rates versus proposed rates by account. Appendix C presents a summary of mortality and net salvage estimates by account. Appendix D presents a comparison between theoretical and book accumulated depreciation reserves for each account. Appendix E presents the net salvage analysis for all accounts. The overall decrease in depreciation expense is driven by changes in life and net salvage as well as treatment of any book and theoretical reserve imbalance. Shown below is a summary of the results for each group and function:

| Type of Plant (in millions) | Accrual at Existing Rates | Accrual at Proposed Rates | Difference |
|--|------------------------------|---------------------------------|----------------|
| Electric Transmission Depreciable | \$67.9 | \$72.4 | \$4.5 |
| Electric Distribution Depreciable | \$77.9 | \$80.2 | \$2.3 |
| Electric General Depreciable | \$1.4 | \$1.5 | \$0.1 |
| Electric Distribution Amortized | \$16.5 | \$16.4 | (\$0.1) |
| Electric General & Intangible Amortized | \$53.1 | \$50.0 | (\$3.1) |
| Gas Transmission | \$1.6 | \$1.2 | (\$0.4) |
| Gas Distribution Depreciated | \$23.3 | \$19.1 | (\$4.2) |
| Gas Distribution Amortized | \$4.8 | \$4.0 | (\$0.8) |
| Gas General Depreciated | \$0.03 | \$0.04 | (\$0.0) |
| Gas General & Intangible Amortized | \$4.3 | \$3.1 | (\$1.2) |
| Common Depreciated | \$5.2 | \$5.8 | \$0.6 |
| Common Amortized | \$54.6 | \$50.0 | (\$4.6) |
| Total | \$310.6 | \$303.7 | (\$6.9) |

GENERAL DISCUSSION

Definition

The term "depreciation" as used in this study is considered in the accounting sense, that is, a system of accounting that distributes the cost of assets, less net salvage (if any), over the estimated useful life of the assets in a systematic and rational manner. It is a process of allocation, not valuation. This expense is systematically allocated to accounting periods over the life of the properties. The amount allocated to any one accounting period does not necessarily represent the loss or decrease in value that will occur during that particular period. The Company accrues depreciation on the basis of the original cost of all depreciable property included in each functional property group. On retirement, the full cost of depreciable property, less the net salvage value (which may be negative), is charged to the depreciation reserve.

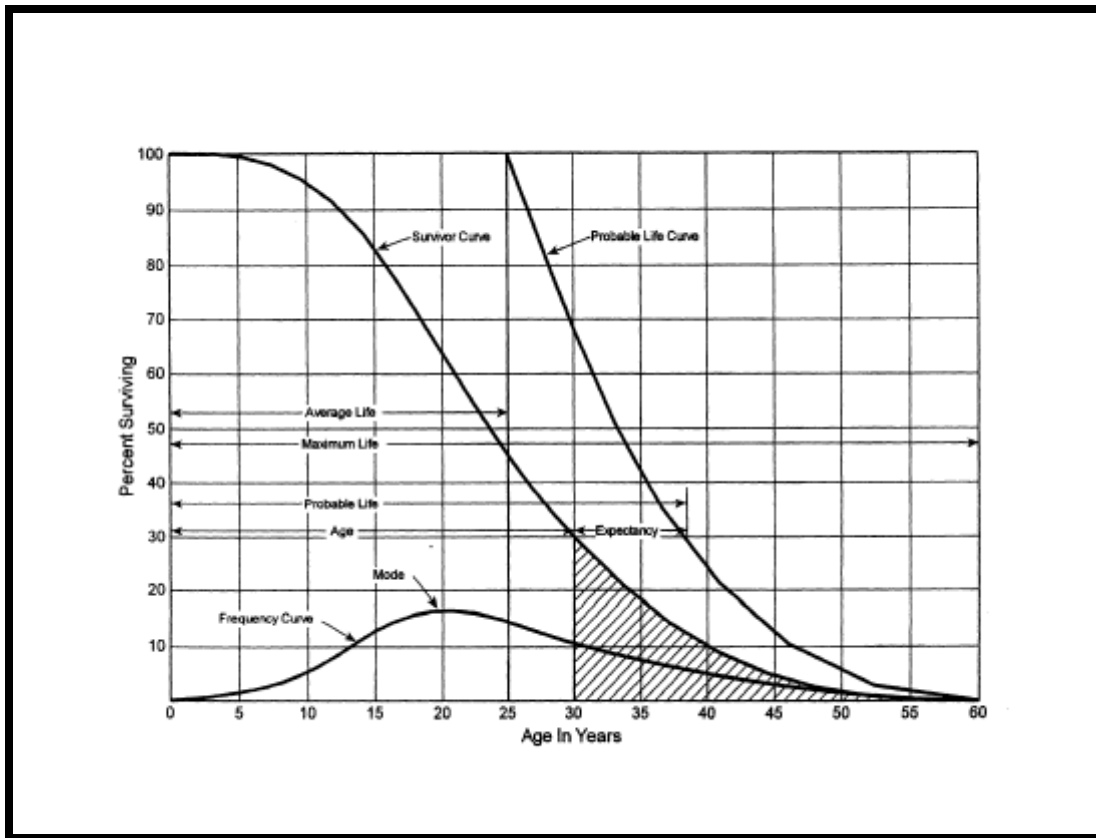
Basis of Depreciation Estimates

The straight-line, broad (average) life group, remaining-life depreciation system was employed to calculate annual and accrued depreciation in this study. In this system, the annual depreciation expense for each group is computed by dividing the original cost of the asset less allocated depreciation reserve less estimated net salvage by its respective average life group remaining life. The resulting annual accrual amounts of all depreciable property within a function were accumulated, and the total was divided by the original cost of all functional depreciable property to determine the depreciation rate. The calculated remaining lives and annual depreciation accrual rates were based on attained ages of plant in service and the estimated service life and salvage characteristics of each depreciable group. The computations of the annual functional depreciation rates are shown in Appendix A.

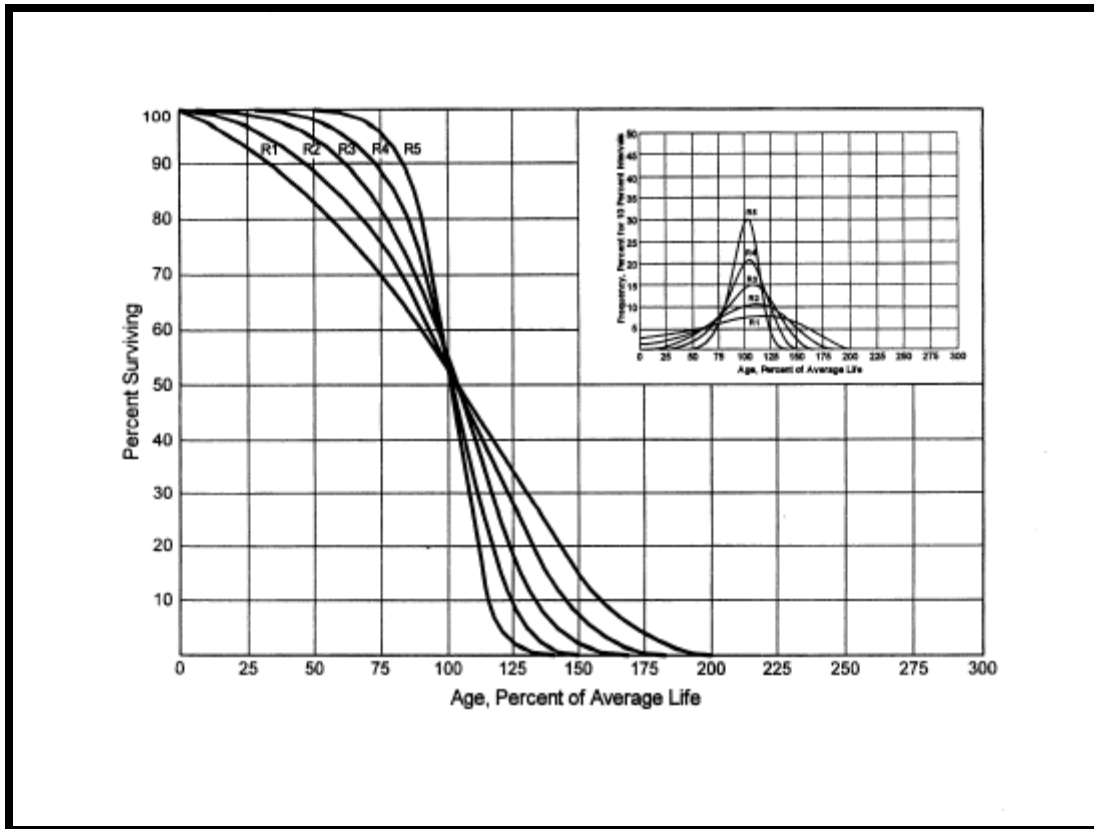
Actuarial analysis was used with each account within a function where sufficient data was available, and judgment was used to some degree on all accounts.

Survivor Curves

To fully understand depreciation projections in a regulated utility setting, there must be a basic understanding of survivor curves. Individual property units within a group (for example, wood distribution poles) do not normally have identical lives or investment amounts. The average life of a group can be determined by first constructing a survivor curve which is plotted as a percentage of the units surviving at each age. A survivor curve represents the percentage of property remaining in service at various age intervals. The Iowa Survivor Curves (“Iowa Curves”) are the result of an extensive investigation of life characteristics of physical property made at Iowa State College Engineering Experiment Station in the first half of the prior century. Through common usage, revalidation and regulatory acceptance, these curves have become a descriptive standard for the life characteristics of industrial property. An example of an Iowa Curve is shown below.



There are four families in the Iowa Curves that are distinguished by the relation of the age at the retirement mode (largest annual retirement frequency) and the average life. For distributions with the mode age greater than the average life, an "R" designation (i.e., Right modal) is used. The family of "R" moded curves is shown below.



Similarly, an "S" designation (i.e., Symmetric modal) is used for the family whose mode age is symmetric about the average life. An "L" designation (i.e., Left modal) is used for the curve family whose mode age is less than the average life. A special case of left modal dispersion is the "O" or origin modal curve family. Within each curve family, numerical designations are used to describe the relative magnitude of the retirement frequencies at the mode. A "6" indicates that the retirements are not greatly dispersed from the mode (i.e., high mode frequency) while a "1" indicates a large dispersion about the mode (i.e., low mode frequency). For example, a curve with an

average life of 30 years and an "L3" dispersion is a moderately dispersed, left modal curve that can be designated as a 30 L3 Curve. A SQ, or square, survivor curve occurs where no dispersion is present (i.e., units of common age retire simultaneously).

Most property groups can be closely fitted to one Iowa Curve with a unique average service life. The blending of judgment concerning current conditions and future trends along with the matching of historical data permits the depreciation analyst to make an informed selection of an account's average life and retirement dispersion pattern.

Actuarial Analysis

Actuarial analysis (retirement rate method) was used in evaluating historical asset retirement experience where vintage data were available and sufficient retirement activity was present. In actuarial analysis, interval exposures (total property subject to retirement at the beginning of the age interval, regardless of vintage) and age interval retirements are calculated. The complement of the ratio of interval retirements to interval exposures establishes a survivor ratio. The survivor ratio is the fraction of property surviving to the end of the selected age interval, given that it has survived to the beginning of that age interval. Survivor ratios for all of the available age intervals were chained by successive multiplications to establish a series of survivor factors, collectively known as an observed life table. The observed life table shows the experienced mortality characteristic of the account and may be compared to standard mortality curves such as the Iowa Curves. Where data was available, accounts were analyzed using this method. Placement bands were used to illustrate the composite history over a specific era, and experience bands were used to focus on retirement history for all vintages during a set period. The results from these analyses for those accounts which had data sufficient to be analyzed using this method are shown in the Life Analysis section of this report.

Simulated Plant Record Procedure

The Simulated Plant Record Procedure - Balances approach (“SPR”) is one of the commonly accepted approaches to analyze mortality characteristics of utility property. SPR was applied to some of the Electric and Gas Distribution accounts due to the unavailability of vintaged transactional data. In this method, an Iowa Curve and average service life are selected as a starting point of the analysis and its survivor factors are applied to the actual annual additions to give a sequence of annual balance totals. These simulated balances are compared with the actual balances by using both graphical and statistical analysis. Through multiple comparisons, the mortality characteristics (as defined by an average life and Iowa Curve) that are the best match to the property in the account can be found.

The Conformance Index (“CI”) is one measure used to evaluate various SPR analyses. CIs are also used to evaluate the "goodness of fit" between the actual data and the Iowa Curve being referenced. The sum of squares difference (“SSD”) is a summation of the difference between the calculated balances and the actual balances for the band or test year being analyzed. This difference is squared and then summed to arrive at the SSD, where n is the number of years in the test band as follows:

$$SSD = \sum_i^n (Calculated\ Balance_i - Observed\ Balance_i)^2$$

This calculation can then be used to develop other calculations, which the analyst feels might give a better indication for the “goodness of fit” for the representative curve under consideration. The residual measure (“RM”) is the square root of the average squared differences as developed above. The residual measure is calculated as follows:

$$RM = \sqrt{\left(\frac{SSD}{n} \right)}$$

The CI is developed from the residual measure and the average observed plant balances for the band or test year being analyzed. The calculation of conformance index is shown below:

$$CI = \frac{\sum_i^n Balances_i / n}{RM}$$

The Retirement Experience Index (“REI”) gives an indication of the maturity of the account and is the percent of the property retired from the oldest vintage in the band at the end of the test year. Retirement indices range from 0 percent to 100 percent and a REI of 100 percent indicates that a complete curve was used. A REI less than 100 percent indicates that the survivor curve was truncated at that point. The originator of the SPR method, Alex Bauhan, suggests ranges of value for the CI and REI. The relationship for CI proposed by Bauhan is shown below¹:

| CI | Value |
|----------|-----------|
| Over 75 | Excellent |
| 50 to 75 | Good |
| 25 to 50 | Fair |
| Under 25 | Poor |

¹ Public Utility Depreciation Practices, p. 96.

The relationship for REI proposed by Bauhan² is shown below:

| REI | Value |
|--------------|-----------|
| Over 75 | Excellent |
| 50 to 75 | Good |
| 33 to 50 | Fair |
| 17 to 33 | Poor |
| 17 and below | Valueless |

Depreciation analysts have used these measures in analyzing SPR results for nearly 60 years, since the SPR method was developed. Both the CI and REI statistics provide the analyst with important information with which to make a comparison between a band of simulated or calculated balances and the observed or actual balances in the account being studied.

Statistics are useful in analyzing mortality characteristics of accounts, as well as determining a range of service lives to be analyzed using the detailed graphical method. However, these statistics boil all the information down to one, or at most, a few numbers for comparison. Visual matching through comparison between actual and calculated balances expands the analysis by permitting the analyst to view many points of data at a time. The goodness of fit should be visually compared to plots of other Iowa Curve dispersions and average lives for the selection of the appropriate curve and life. Detailed information for each account is shown later in this study and in workpapers.

Judgment

Any depreciation study requires informed judgment by the analyst conducting the study. A knowledge of the property being studied, company policies and procedures, general trends in technology and industry practice, and a sound basis of understanding depreciation theory are needed to apply this informed judgment. Judgment was used in areas such as survivor curve modeling and selection, depreciation method selection, simulated plant record method analysis, and actuarial analysis.

² Public Utility Depreciation Practices, p. 97.

Judgment is not defined as being used in cases where there are specific, significant pieces of information that influence the choice of a life or curve. Those cases would simply be a reflection of specific facts into the analysis. Where there are multiple factors, activities, actions, property characteristics, statistical inconsistencies, implications of applying certain curves, property mix in accounts or a multitude of other considerations that impact the analysis (potentially in various directions), judgment is used to take all of these factors and synthesize them into a general direction or understanding of the characteristics of the property. Individually, no one factor in these cases may have a substantial impact on the analysis, but overall, may shed light on the utilization and characteristics of assets. Judgment may also be defined as deduction, inference, wisdom, common sense, or the ability to make sensible decisions. There is no single correct result from statistical analysis; hence, there is no answer absent judgment. At the very least for example, any analysis requires choosing the bands on which to place more emphasis.

The establishment of appropriate average service lives and retirement dispersions for the Transmission, Distribution, and General Plant accounts for the Electric, Gas, and Common utilities requires judgment to incorporate the understanding of the operation of the system with the available accounting information analyzed using the Retirement Rate actuarial methods. The appropriateness of lives and curves depends not only on statistical analyses, but also on how well future retirement patterns will match past retirements.

Current applications and trends in use of the equipment also need to be factored into life and survivor curve choices in order for appropriate mortality characteristics to be chosen.

Average Life Group Depreciation

The Commission has approved NSP's use the average life group ("ALG") depreciation procedure in various proceedings. At the request of the Company, this study continues to use the ALG depreciation procedure to group the assets within each account. After average service life and a dispersion curve were selected for each account, those parameters were used to estimate what portion of the surviving

investment of each vintage was expected to retire. The depreciation of the group continues until all investment in the vintage group is retired. ALG is defined by their respective account dispersion curve, life, and salvage estimates. A straight-line rate for each ALG is calculated by computing a composite remaining life for each group across all vintages within the group, dividing the remaining investment to be recovered by the remaining life to find the annual depreciation expense and dividing the annual depreciation expense by the surviving investment. The resultant rate for each ALG group is designed to recover all retirements less net salvage when the last unit retires. The ALG procedure recovers net book cost over the life of each account by averaging many components.

Theoretical Depreciation Reserve

The book depreciation reserve was derived from Company records and was reallocated from a functional level to individual accounts. This study used a reserve model that relied on a prospective concept relating future retirement and accrual patterns for property, given current life and salvage estimates. The theoretical reserve of a group is developed from the estimated remaining life, total life of the property group, and estimated net salvage. The theoretical reserve represents the portion of the group cost that would have been accrued if current forecasts were used throughout the life of the group for future depreciation accruals. The computation involves multiplying the vintage balances within the group by the theoretical reserve ratio for each vintage. The average life group method requires an estimate of dispersion and service life to establish how much of each vintage is expected to be retired in each year until all property within the group is retired. Estimated average service lives and dispersion determine the amount within each average life group. The straight-line remaining-life theoretical reserve ratio ("RR") at any given age is calculated as:

$$RR = 1 - \frac{(\text{Average Remaining Life})}{(\text{Average Service Life})} * (1 - \text{Net Salvage Ratio})$$

The use of the remaining life method effectively spreads any actual to theoretical reserve variance over the expected remaining life of the account.

Change to Average Life Group Remaining life Depreciation System

In the Company's 2013 and 2014 electric rate cases (Docket Nos. E002/GR-12-961 and E002/GR-13-868 respectively) there was significant attention given to the difference in the theoretical and actual reserves. To address that concern, the Company recommended in the 2013 electric rate case that the net book value be recovered over the remaining life of each Electric and Common account. The issue was resolved by spreading the theoretical surplus over periods much shorter than

the remaining lives. In the Company's last depreciation study, Docket No. E,G002/D-12-858 (5-year depreciation study), the remaining life depreciation system was proposed to address those concerns but was not adopted because of the treatment afforded to the theoretical surplus in the 2012 and 2013 electric rate cases. This 2017 study again recommends use of the remaining life depreciation system. Use of the remaining life depreciation system adds a self-correcting mechanism, which accounts for any differences between theoretical and book depreciation reserve over the remaining life of each depreciable group. Use of remaining life ensures that the difference between book and theoretical reserve will be amortized ratably over the remaining life of the group.

DETAILED DISCUSSION

Depreciation Study Process

This depreciation study encompassed four distinct phases. The first phase involved data collection and field interviews. The second phase was where the initial data analysis occurred. The third phase was where the information and analysis was evaluated. Once the first three stages were complete, the fourth phase began. This phase involved the calculation of depreciation rates and documenting the corresponding recommendations.

During the Phase I data collection process, historical data was compiled from continuing property records and general ledger systems. Data was validated for accuracy by extracting and comparing to multiple financial system sources. Audit of this data was validated against historical data from prior periods, historical general ledger sources, and field personnel discussions. This data was reviewed extensively to put in the proper format for a depreciation study. Further discussion on data review and adjustment is found in the Salvage Considerations Section of this study. Also as part of the Phase I data collection process, numerous discussions were conducted with engineers and field operations personnel to obtain information that would assist in formulating life and salvage recommendations in this study. One of the most important elements of performing a proper depreciation study is to understand how the Company utilizes assets and the environment of those assets. Interviews with engineering and operations personnel are important ways to allow the analyst to obtain information that is beneficial when evaluating the output from the life and net salvage programs in relation to the Company's actual asset utilization and environment. Information that was gleaned in these discussions is found both in the Detailed Discussion of this study in the life analysis and salvage analysis sections and also in workpapers.

Phase 2 is where the actuarial analysis is performed. Phase 2 and 3 overlap to a significant degree. The detailed property records information is used in phase 2 to develop observed life tables for life analysis. These tables are visually compared to industry standard tables to determine historical life characteristics. It is possible

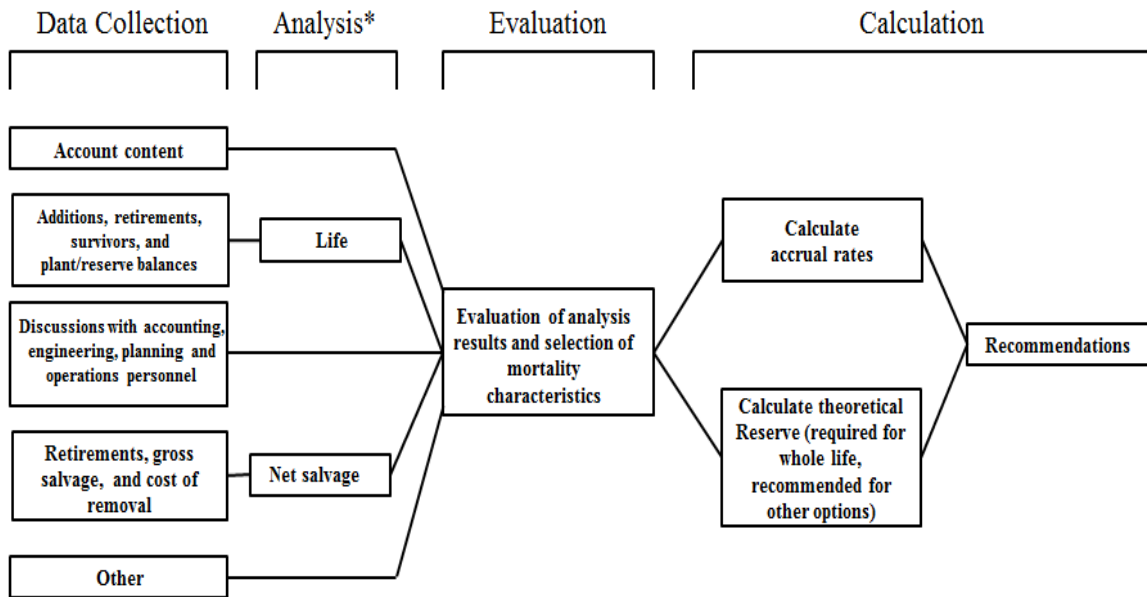
that the analyst would cycle back to this phase based on the evaluation process performed in Phase 3. Net salvage analysis consists of compiling historical salvage and removal data by functional group to determine values and trends in gross salvage and removal cost. This information was then carried forward into Phase 3 for the evaluation process.

Phase 3 is the evaluation process which synthesizes analysis, interviews, and operational characteristics into a final selection of asset lives and net salvage parameters. The historical analysis from Phase 2 is further enhanced by the incorporation of recent or future changes in the characteristics or operations of assets that were revealed in Phase 1. Phases 2 and 3 allow the depreciation analyst to validate the asset characteristics as seen in the accounting transactions with actual Company operational experience.

Finally, Phase 4 involved the calculation of accrual rates, making recommendations and documenting the conclusions in a final report. The calculation of accrual rates is found in Appendix A. Recommendations for the various accounts are contained within the Detailed Discussion of this report. The depreciation study flow diagram shown as Figure 1³ documents the steps used in conducting this study. Depreciation Systems, page 289 documents the same basic processes in performing a depreciation study which are: Statistical analysis, evaluation of statistical analysis, discussions with management, forecast assumptions, write logic supporting forecasts and estimation, and write final report.

³ Introduction to Depreciation for Public Utilities and Other Industries, AGA EEI, 2013.

Book Depreciation Study Flow Diagram



Source: Introduction to Depreciation for Public Utilities and Other Industries, AGA EEI, 2013.

*Although not specifically noted, the mathematical analysis may need some level of input from other sources (for example, to determine analysis bands for life and adjustments to data used in all analysis).

Figure 1

NORTHERN STATES POWER COMPANY - MINNESOTA DEPRECIATION STUDY PROCESS

Depreciation Rate Calculation

Annual depreciation expense amounts for the depreciable accounts of NSP were calculated by the straight-line method, average life group procedure, and remaining-life technique. With this approach, remaining lives were calculated according to standard ALG expectancy techniques, using the Iowa Curves noted in the calculation. For each plant account under the FERC Uniform System of Accounts, the difference between the surviving investment, adjusted for estimated net salvage, and the allocated book depreciation reserve, was divided by the average remaining life to yield the annual depreciation expense. These calculations are shown in Appendix A.

Remaining Life Calculation

The establishment of appropriate average service lives and retirement dispersions for each account within a functional group was based on engineering judgment that incorporated available accounting information analyzed using the Retirement Rate actuarial methods. After establishing the appropriate average service lives and retirement dispersion, the remaining life was computed for each account. The theoretical depreciation reserve with zero net salvage was calculated using theoretical reserve ratios as defined in the theoretical reserve portion of the General Discussion section. The difference between book depreciation reserve and theoretical reserve was then spread over the remaining life by ALG. Remaining life computations are found for each account in workpapers.

Calculation Process

Annual depreciation expense amounts for all accounts were calculated by the straight line, remaining life procedure.

In a whole life representation, the annual accrual rate is computed by the following equation,

$$\text{Annual Accrual Rate} = \frac{(100\% - \text{Net Salvage Percent})}{\text{Average Service Life}}$$

Use of the remaining life depreciation system adds a self-correcting mechanism, which accounts for any differences between theoretical and book depreciation reserve over the remaining life of the group. With the straight line, remaining life, average life group system using Iowa Curves, composite remaining lives were calculated according to standard broad group expectancy techniques, noted in the formula below:

$$\text{Composite Remaining Life} = \frac{\sum \text{Original Cost} - \text{Theoretical Reserve}}{\sum \text{Whole Life Annual Accrual}}$$

For each plant account, the difference between the surviving investment, adjusted for estimated net salvage, and the allocated book depreciation reserve, was divided by the composite remaining life to yield the annual depreciation expense as noted in this equation where the Net Salvage% represents future net salvage.

$$\text{Annual Depreciation Expense} = \frac{\text{Original Cost} - \text{Book Reserve} - (\text{Original Cost}) * (1 - \text{Net Salvage \%})}{\text{Composite Remaining Life}}$$

Within a group, the sum of the group annual depreciation expense amounts, as a percentage of the depreciable original cost investment summed, gives the annual depreciation rate as shown below:

$$\text{Annual Depreciation Rate} = \frac{\sum \text{Annual Depreciation Expense}}{\sum \text{Original Cost}}$$

These calculations are shown in Appendix A. The calculations of the theoretical depreciation reserve values and the corresponding remaining life calculations are shown in workpapers. Book depreciation reserves were allocated from a functional level to individual accounts and the theoretical reserve computation was used to compute a composite remaining life for each account. A comparison between theoretical reserve and the reallocated book reserve is shown in Appendix D for all accounts.

Life Analysis

The retirement rate actuarial analysis method was applied to accounts which had sufficient aged data for Northern States Power Company - Minnesota. Some of the mass distribution accounts only had aged retirement data from transaction year 2001 forward. Those accounts were analyzed with the SPR balances method. The distribution accounts analyzed with SPR were: Electric 364 Poles, Towers & Fixtures, 365 Overhead Conductor & Devices, 366 – Underground Conduit, 367 Underground Conductor and Devices, 369 Services - Overhead, 369 Services - Underground, 373 Street Lighting & Signal Systems, and Gas: 376 Mains - Metallic, 376 Mains - Plastic, 380 Services - Metallic, and 380 Services - Plastic. For each account with sufficient data, an actuarial retirement rate analysis was made with placement and experience bands of varying width. The historical observed life table was plotted and compared with various Iowa Curves to obtain the most appropriate match. A selected curve for each account is shown in the Life Analysis Section of this report. The observed life tables for all analyzed placement and experience bands are provided in workpapers.

For each account on the overall band (i.e. placement from earliest vintage year which varied for each account through 2016), approved survivor curves from MPUC Docket No. E,G002/D-12-858, modified by subsequent orders if applicable, were used as a starting point. Then using the same average life, various dispersion curves were plotted. Frequently, visual matching would confirm one specific dispersion pattern (i.e. L, S. or R) as an obviously better match than others. The next step would be to determine the most appropriate life using that dispersion

pattern. Then, after looking at the overall experience band, different experience bands were plotted and analyzed: in increments of approximately 20 years, for instance 1967-2016, 1987-2016, etc. Next, placement bands of varying width were plotted with each experience band discussed above. Repeated matching usually pointed to a focus on one dispersion family and small range of service lives. The goal of visual matching was to minimize the differential between the observed life table and lowa curve in top and mid range of the plots. These results are used in conjunction with all other factors that may influence asset lives.

For account(s) which had insufficient data for actuarial analysis, a simulated plant record method analysis was performed at intervals for the overall band and at 10 year intervals within the overall balance period. In addition to reviewing the SPR analysis for each band and account, a graphical comparison between actual and simulated balances was performed.

These results are used in conjunction with all other factors that may influence asset lives.

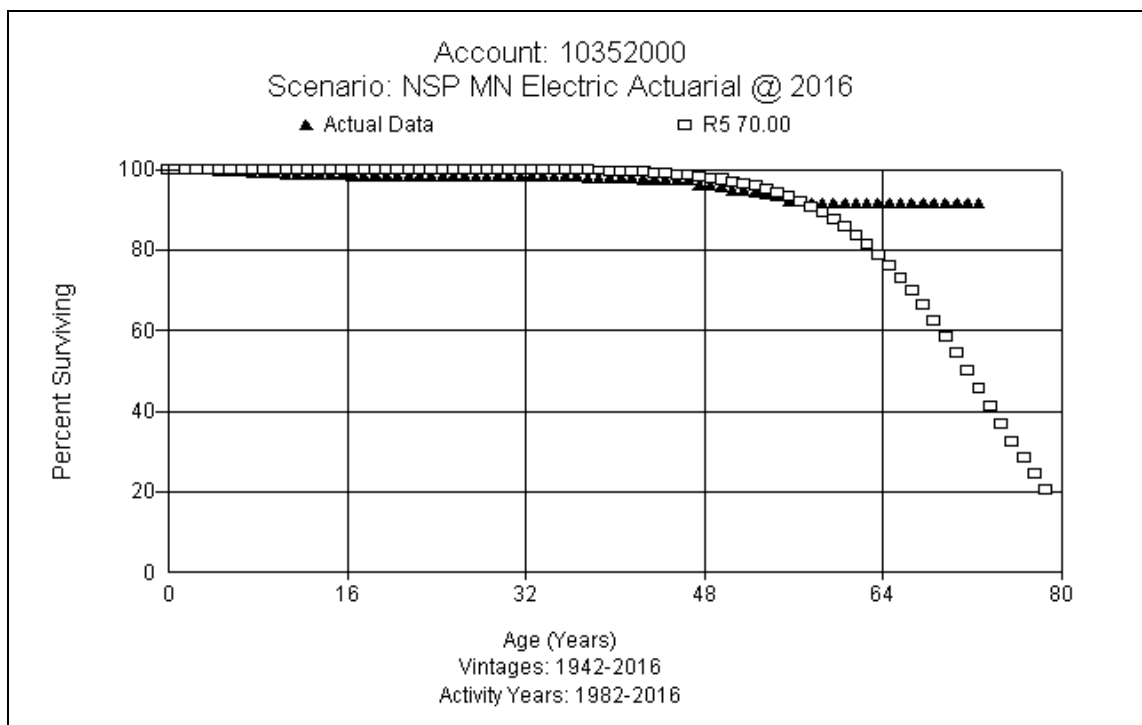
ELECTRIC PLANT

TRANSMISSION

Transmission Accounts, FERC Accounts 352-358

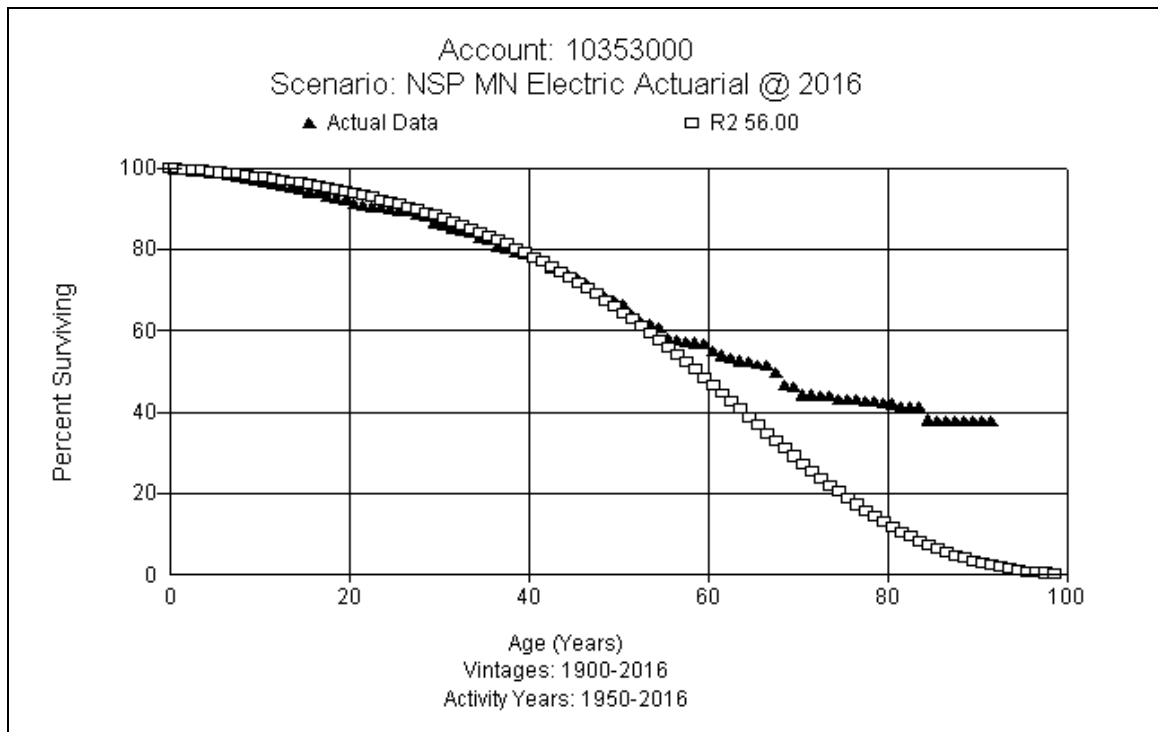
FERC Account 352 Transmission Structures & Improvements (proposed 70 year life with a R5 dispersion curve)

This account includes buildings, fencing and other structures found in a transmission substation. The current investment balance is \$103.1 million. The approved life and curve is 68 years with a R5 dispersion curve. There is a limited amount of data for actuarial analysis. Narrow bands do not have sufficient data with curves that stop at 97 percent are higher. For the overall band, a longer life greatly in excess of the current 45 year life is indicated. Company personnel anticipate a longer life than approved, in the range of 65 to 70 years. Frost and severe winter conditions are factors that can contribute to retirements in Minnesota. Based on judgment and Company experience, a 70 year life is proposed for this account while retaining the R5 dispersion curve.



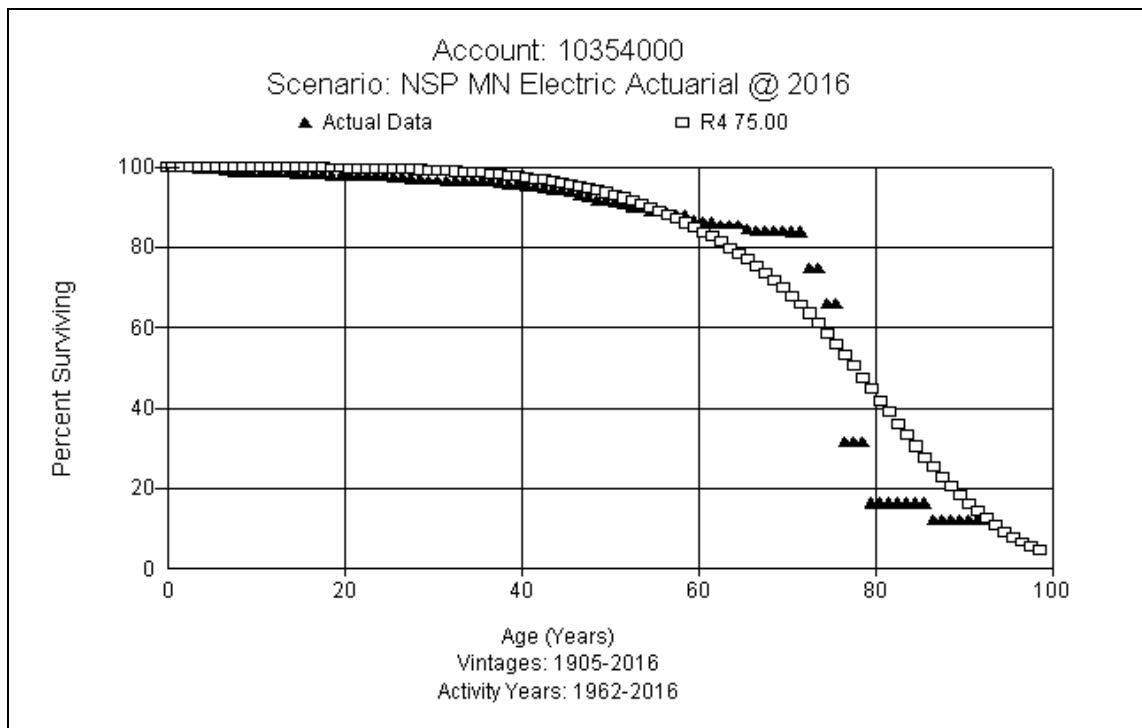
FERC Account 353 Transmission Station Equipment (proposed 56 year life with a R2 dispersion curve)

This account contains a wide variety of transmission substation equipment, from circuit breakers to switchgear. The current investment balance is \$1.2 billion. The current approved life is 56 years with a R2 dispersion curve. The Company maintains a table of low, normal, and long expectations for the various assets types in this account. Company personnel believe the middle or normal estimate is the most reflective of the Company assets. Relays are transitioning from electromechanical and solid state to microprocessor relays with an estimated life of 30 years. Company personnel expect to replace all older relays in the next 8-10 years. Life analysis across a variety of bands shows a longer life, in the 50 year and over range. Based on actuarial experience and judgment regarding the asset groups in this account, this study recommends retaining a 56-year life with an R2 dispersion curve for this account.



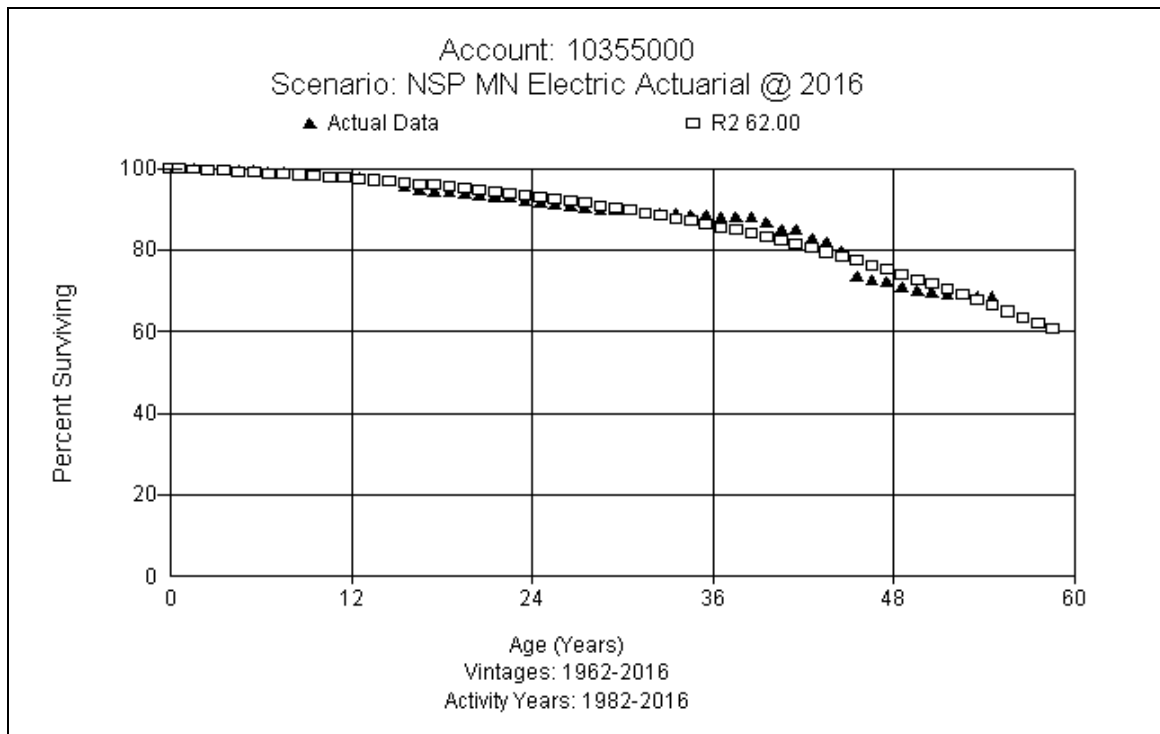
FERC Account 354 Transmission Towers & Fixtures (proposed 75 year life with a R4 dispersion curve)

This account consists of Transmission towers and fixtures, which are used to transmit electricity at a voltage of 69 kV and above. The current investment balance is \$118.6 million. The current approved life is the 70 years with a R4 dispersion curve. There has been a smaller amount of retirements occurring for towers versus other transmission accounts. Some towers are beginning to exhibit corrosion. Based on Company experience and judgment, this study recommends moving to a 75 year life with a R4 dispersion curve for this account.



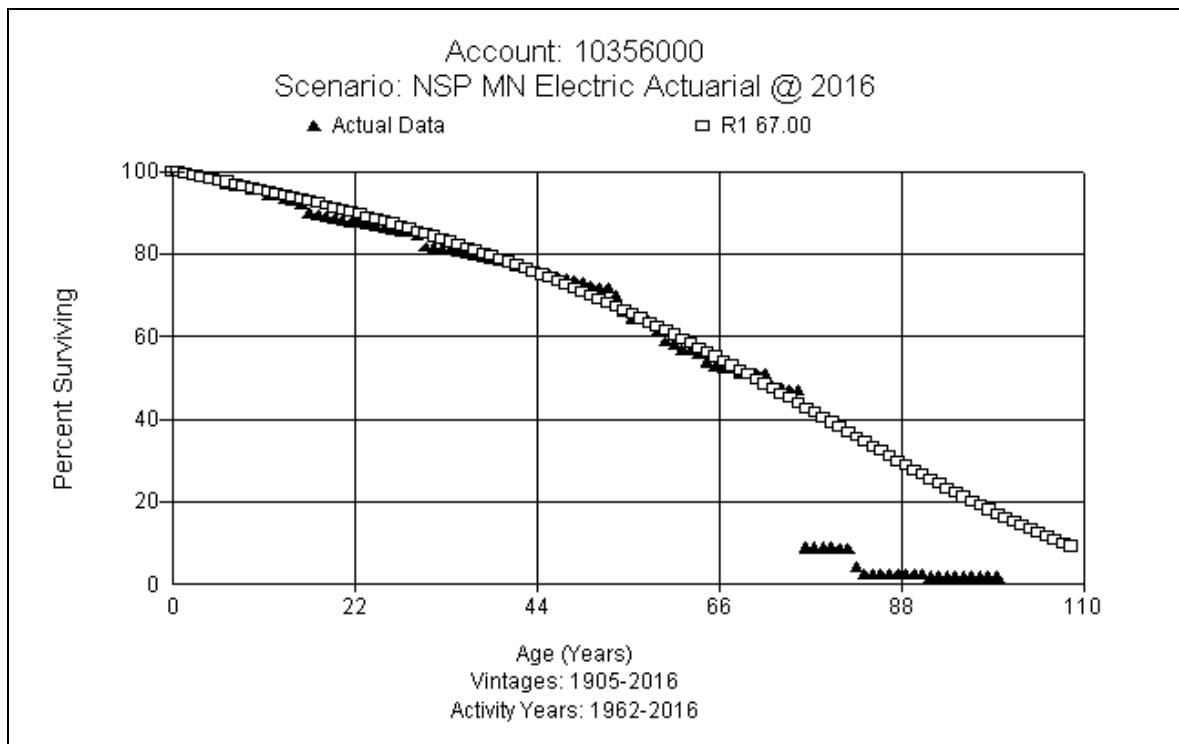
FERC Account 355 Transmission Poles & Fixtures (proposed 62 year life with a R2 dispersion curve)

This account consists of Transmission poles and fixtures, which are used to transmit electricity at a voltage of 69 kV and above. The current investment balance is \$1.3 billion. The current approved life is 62 years with a R2 dispersion curve. Company personnel expect that 100 percent of all structures will have been retired by the age of 75 years, and perhaps 80 percent will last past 50 years. A small percentage will retire in the first 25 years. By 75 years, structures will have degraded to the point that they will all have to be replaced. Rot, obsolescence, change in energy flow, and new capacity are all potential causes of retirement. Based on the best fitting curves for the majority of the placement and experience band combinations, retaining a life of 62 years with a R2 dispersion curve is recommended for this account.



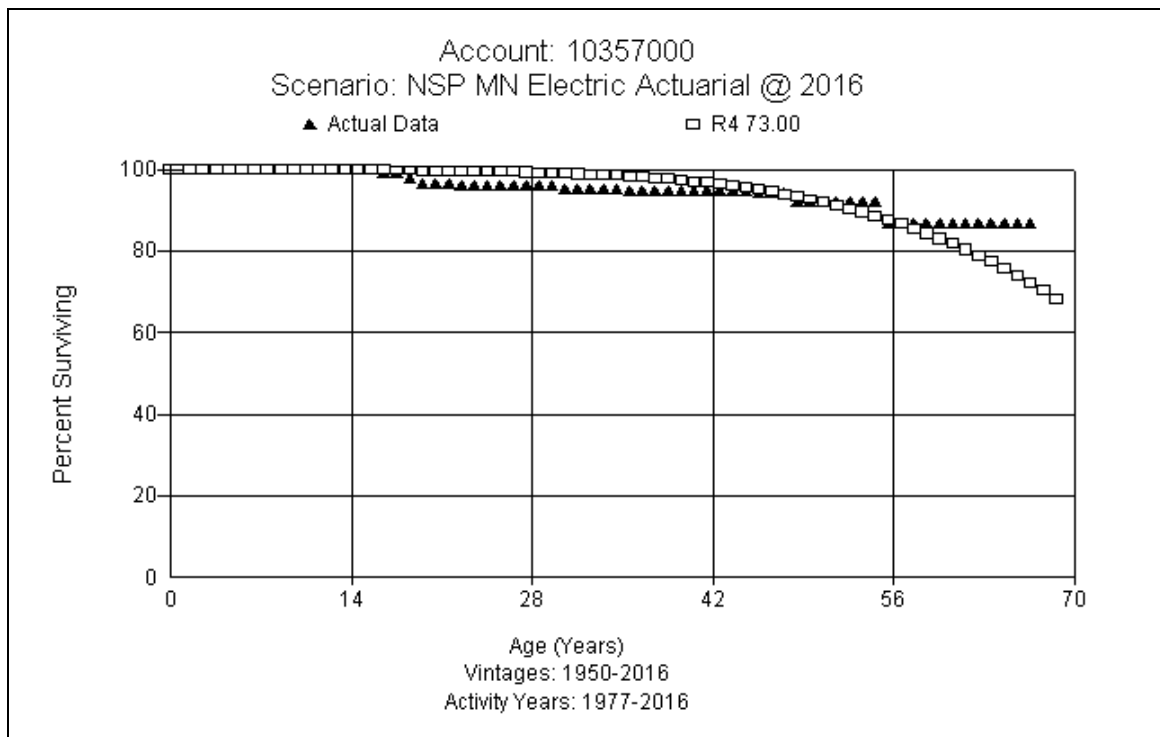
FERC Account 356 Transmission Overhead Conductor & Devices (proposed 67 year life with a R1 dispersion curve)

This account consists of Transmission overhead conductors, which are used to transmit electricity at voltages of 69 kV and above. The current investment balance is \$532.7 million. The current approved life is 63 years with a R1 dispersion curve. Company personnel anticipate that conductor will have a life similar to poles in Account 355. Conductor may be replaced when it is too small or exhibits problems such as corrosion, falling splices, storms, or sag issues. Glass insulators are being replaced on dead ends and polymer on tangents. Polymer insulators are expected to last 30 years and be replaced once over the life of the line. Based on the actuarial analysis, life indications are moving to a longer life, as noted by Company personnel. This study recommends a life of 67 years with a R1 dispersion curve for this account.



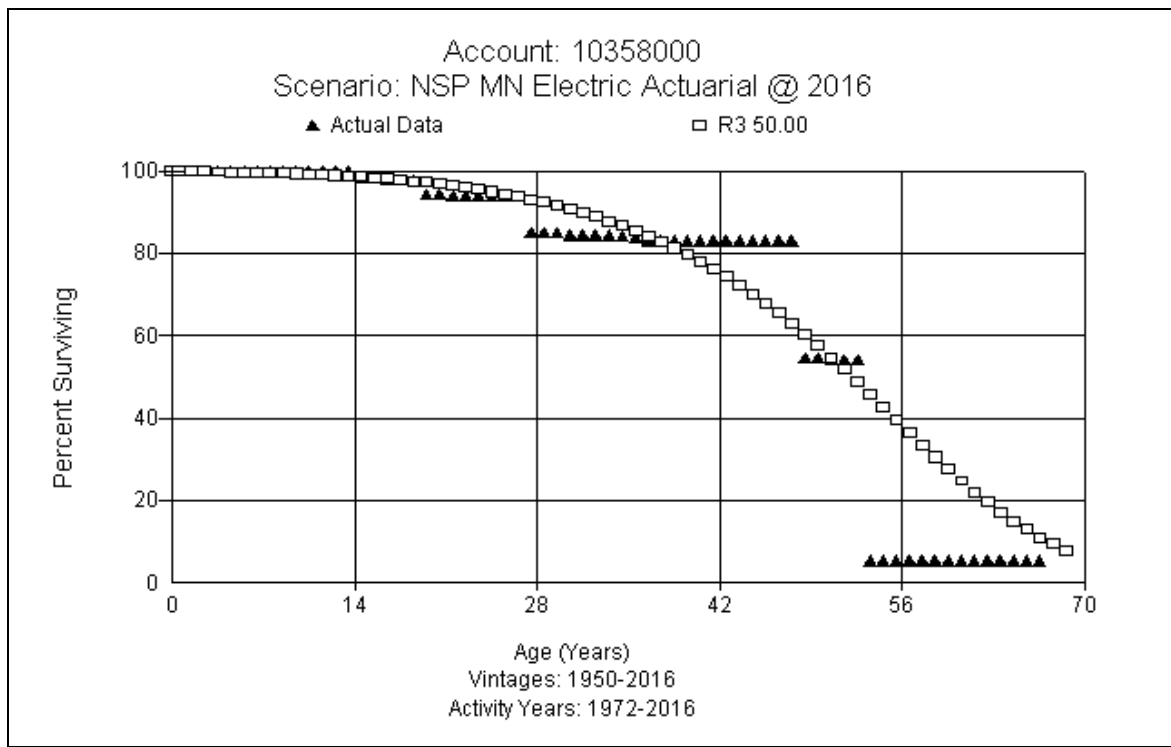
FERC Account 357 Transmission Underground Conduit (proposed 73 year life with a R4 dispersion curve)

This account consists of underground conduit. The current investment balance is \$25.9 million. The current approved life is 73 years with a R4 dispersion curve. Retirement data is limited for this account. Company personnel believe the current life for conduit is reasonable and recommend a life around 70 years. Based on actuarial analysis and input from Company personnel, this study recommends retaining a life of 73 years with a R4 dispersion curve for this account.



FERC Account 358 Transmission Underground Conductor & Devices (proposed 50 year with a R3 dispersion curve)

This account consists of underground conductor. The lines are low pressure oil filled; paper wrapped 500 MCM (thousands of circular mills, wire gauge measurement) copper cable. The current investment balance is \$30.7 million. The current approved life is 55 years with a R2 dispersion curve. Company personnel indicate overall a life of 50 years for underground conductor is a reasonable expectation. Most conductor is HPFF (high pressure fluid filled) which the manufacturer will not make in the future and will have to be replaced with XPLE (solid dielectric cable) within a few years. Based on input from Company personnel and actuarial analysis, this study recommends moving to a life of 50 years with a R3 dispersion curve for this account

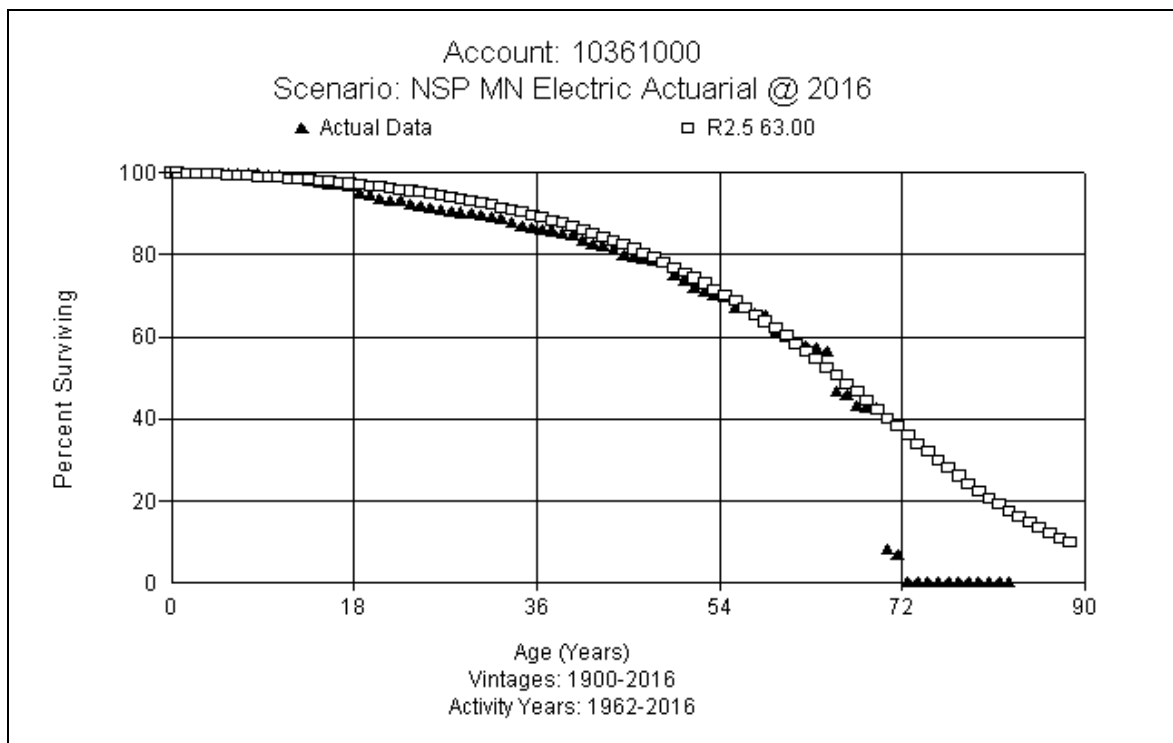


DISTRIBUTION

Distribution Accounts, FERC Accounts 361 - 373

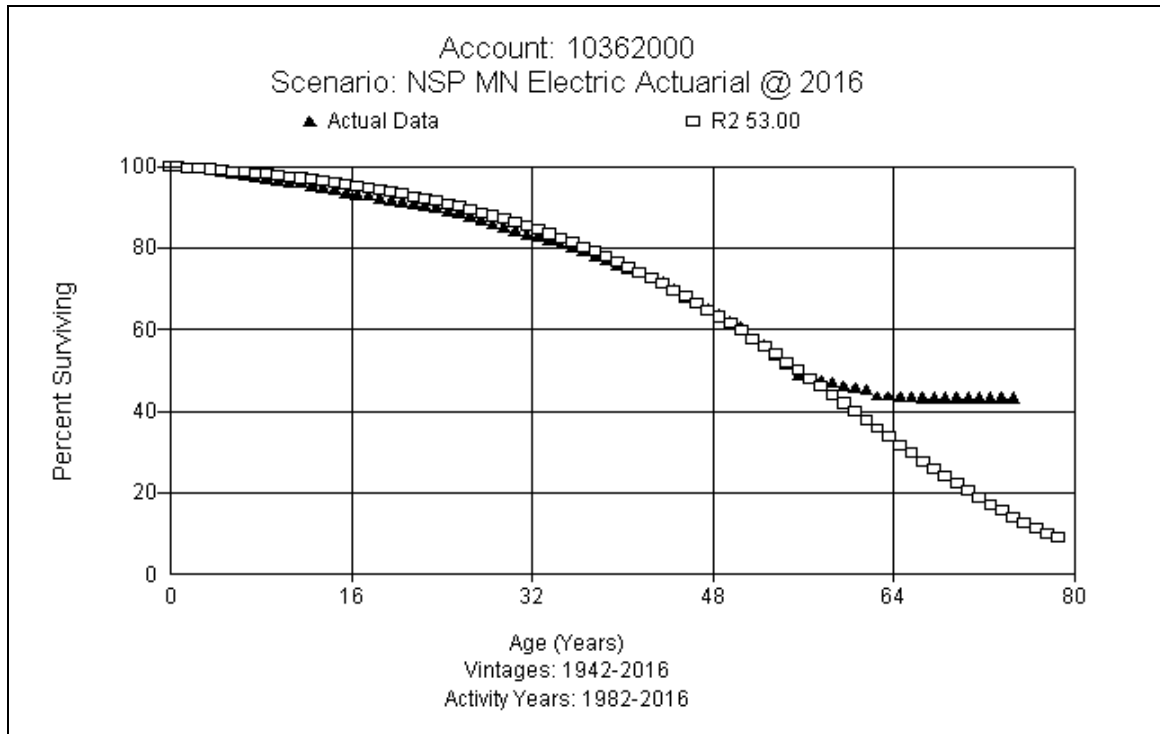
FERC Account 361 Distribution Structures & Improvements (proposed 63 year life with a R2.5 dispersion curve)

This grouping contains facilities ranging from fencing to other structures found in distribution substations. The current investment balance for Minnesota is \$43.7 million for this account. The current approved life is a 60 years with a R3 dispersion curve. Life analysis results are based on a total Company data. Company personnel anticipate a longer life than currently approved with the expectation that it will be less than Account 352, Transmission Structures and Improvements. After analyzing actuarial analysis results, a life of 63 years with a R2.5 dispersion curve is recommended for this account.



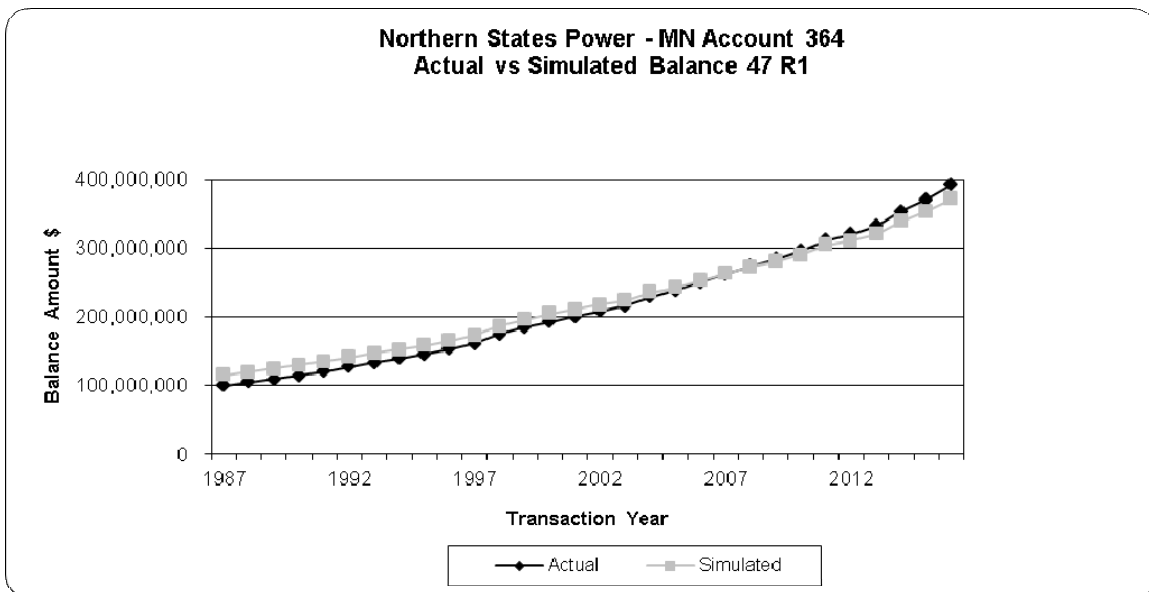
FERC Account 362 Distribution Station Equipment (proposed 53 year life with a R2 dispersion curve)

This grouping contains a wide variety of distribution substation equipment, from circuit breakers to switchgear. The current investment balance for Minnesota is \$553.0 million. The current approved life is a 55 years with a R1.5 dispersion curve. Life analysis results are based on total Company data. Company personnel expect the life of this account will be slightly less than Account 353, Transmission Substation Equipment. Multiple placement and experience bands show that a 53 year life with a R2 dispersion curve is a good fit for many bands. Based on Company history and judgment, this study recommends a life of 53 years with a R2 dispersion curve for this account.



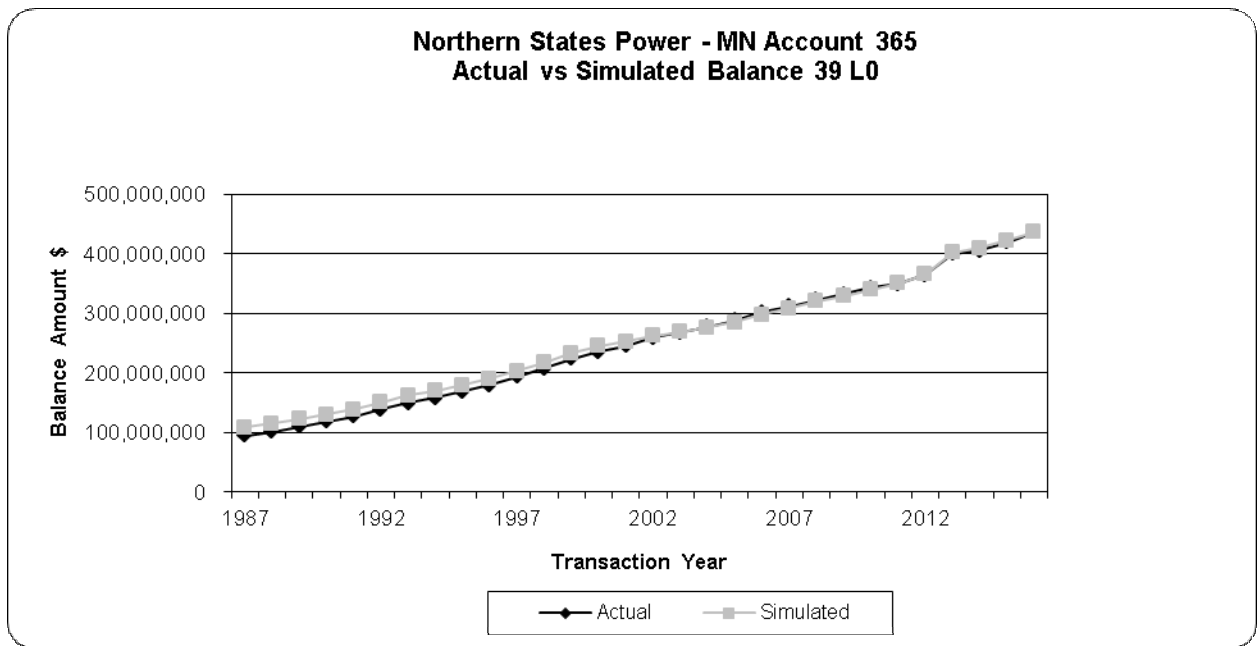
FERC Account 364 Distribution Poles, Towers & Fixtures (proposed 47 year life with a R1 dispersion curve)

This account contains poles and towers of various material types: wood and steel. Most of the poles across the system are made of wood. The height of these assets can range from 35 feet to 70 feet with the prevalent sizes being 45 feet and up. The current investment balance for Minnesota is \$343.5 million for this account. The current approved life is 44 years with a R1 dispersion curve. Life analysis results are based on total Company data. SPR analysis was used since actuarial results are available from 2001 forward only. Company personnel report that western red cedar poles were used up to 10 years ago and poles are now treated pine. Company experts believe the life of cedar would probably be 40-45 years and treated pine would be less than 40 years. The two biggest issues are rot and relocations. A pole testing program is producing proactive replacement activity. Fiberglass cross arms are starting to be installed which will have a longer life. Steel is only used when building near a transmission structure. Based on life analysis results and input from Company personnel a 47 year life with a R1 dispersion curve is recommended for this account. A comparison of actual versus simulated balances is shown below.



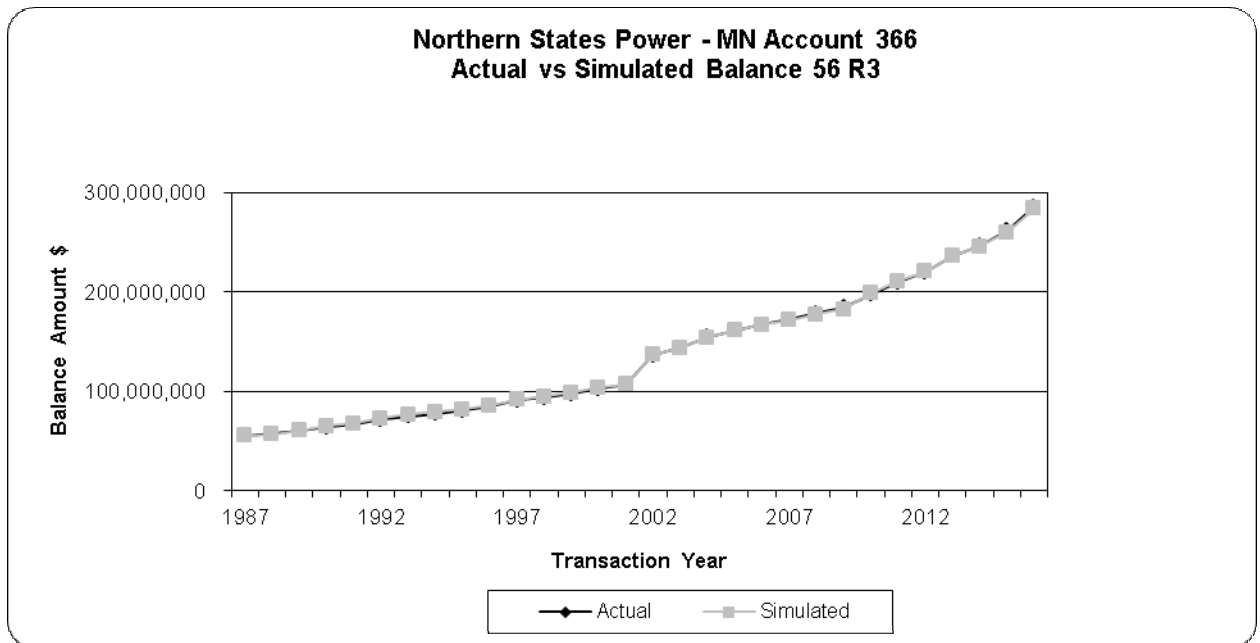
FERC Account 365 Distribution Overhead Conductor & Devices (proposed 39 year life with a L0 dispersion curve)

This account consists of overhead conductor of various thickness, as well as various switches and reclosers. The current investment balance for Minnesota is \$373.2 million for this account. The current approved life is a 39 years with a L0 dispersion curve. Life analysis results are based on total Company data. Company personnel report that insulators are made of porcelain and polymer. Polymer has only been used for the past 8-12 years, so there is limited experience. The primary reasons for retirements are overloads, tree issues, more than 2 splices in a span, and capacity issues. Life analysis shows a shorter life than poles with life increasing in the narrowest bands. Based on life analysis and judgment, a 39 year life with a L0 dispersion curve is recommended for this account. A comparison of actual versus simulated balances is shown below.



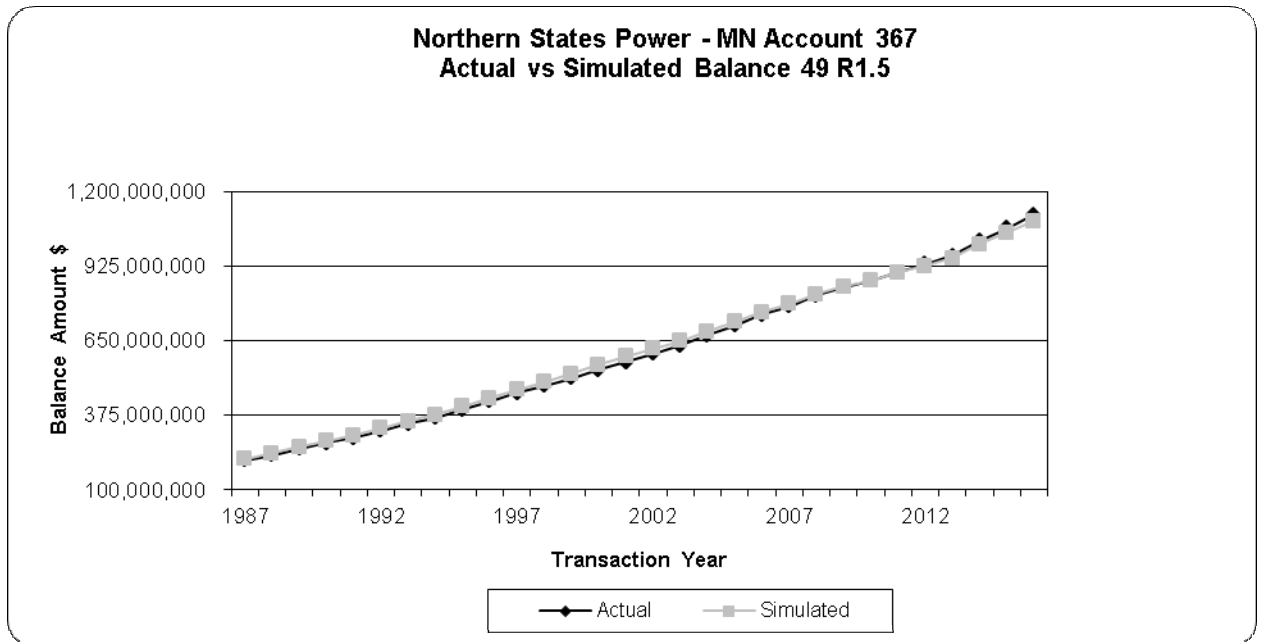
FERC Account 366 Distribution Underground Conduit (proposed 56 year life with a R3 dispersion curve)

This account consists of conduit, duct banks, vaults, manholes, and ventilating system equipment. The current investment balance for Minnesota is \$261.3 million for this account. The current approved life is 52 years with a R3 dispersion curve. After reviewing SPR results, a mid-range dispersion appears is the best fit. After review of multiple bands, this study recommends a 56 year life while retaining the R3 dispersion curve. A comparison of the actual vs. simulated balances is shown below.



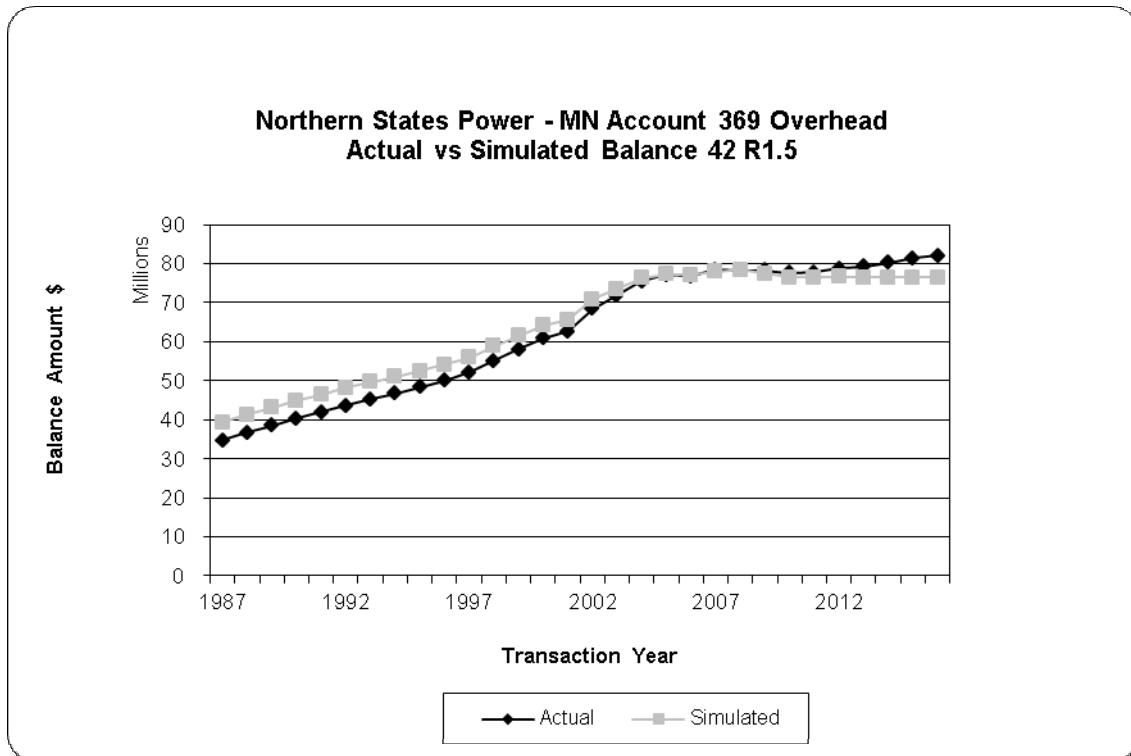
FERC Account 367 Distribution Underground Conductor & Devices (proposed 49 life with a R1.5 dispersion curve)

This account consists of underground distribution conductor, switches, and switchgear. The current investment balance for Minnesota is \$967.9 million for this account. The currently approved life is a 45 years with a R2.5 dispersion curve. Life analysis results are based on total Company data. The SPR method was used to select the life parameter for this account. The best ranked curve with an REI of 100 across multiple bands was the 49 R1.5. After review of multiple bands, this study recommends a 49 year life while moving to a R1.5 dispersion curve. A comparison of the actual vs. simulated balances is shown below.



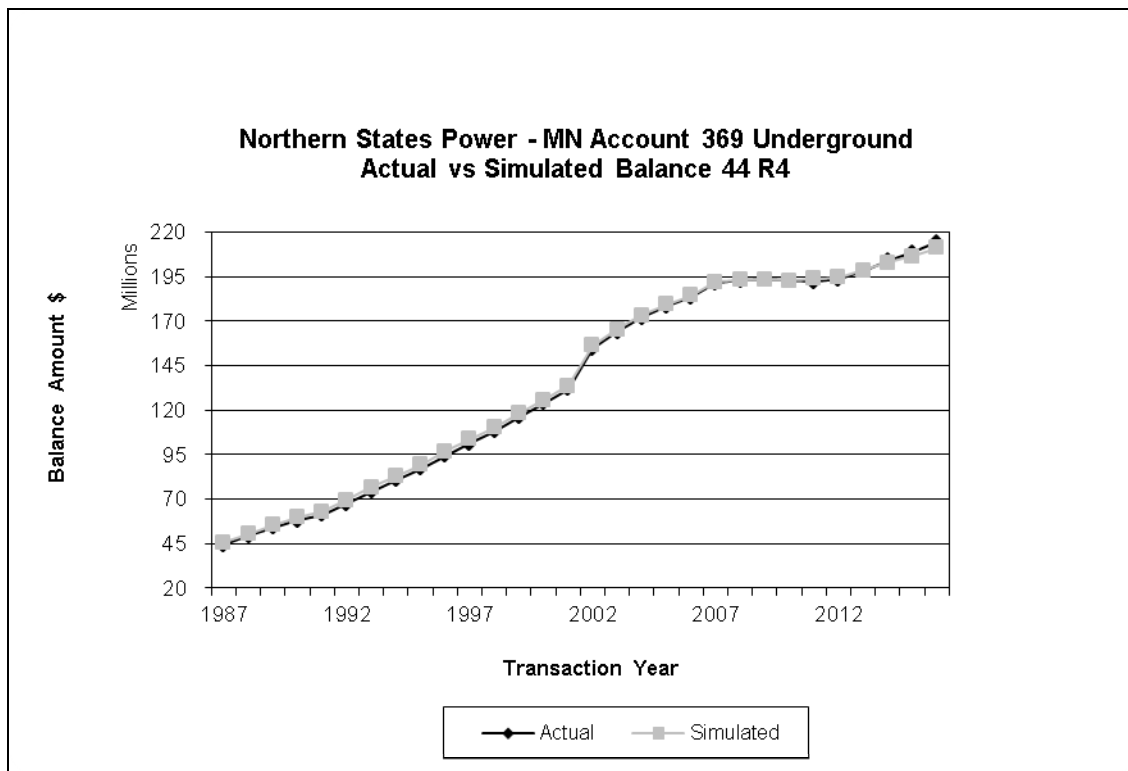
FERC Account 369 Distribution Services – Overhead (proposed 42 year life with a R1.5 dispersion curve)

This account includes overhead services with a current investment balance in Minnesota of \$71.6 million. The current approved life is 40 years with a R1.5 dispersion. Life analysis results are based on total Company data. Company experts expect the life for services, both underground and overhead to be approximately 40 years. Many overhead services have been replaced for aesthetic reasons. After viewing SPR results and comparing actual versus simulated balances, a 42 year life with a R1.5 dispersion curve is recommended for this account.



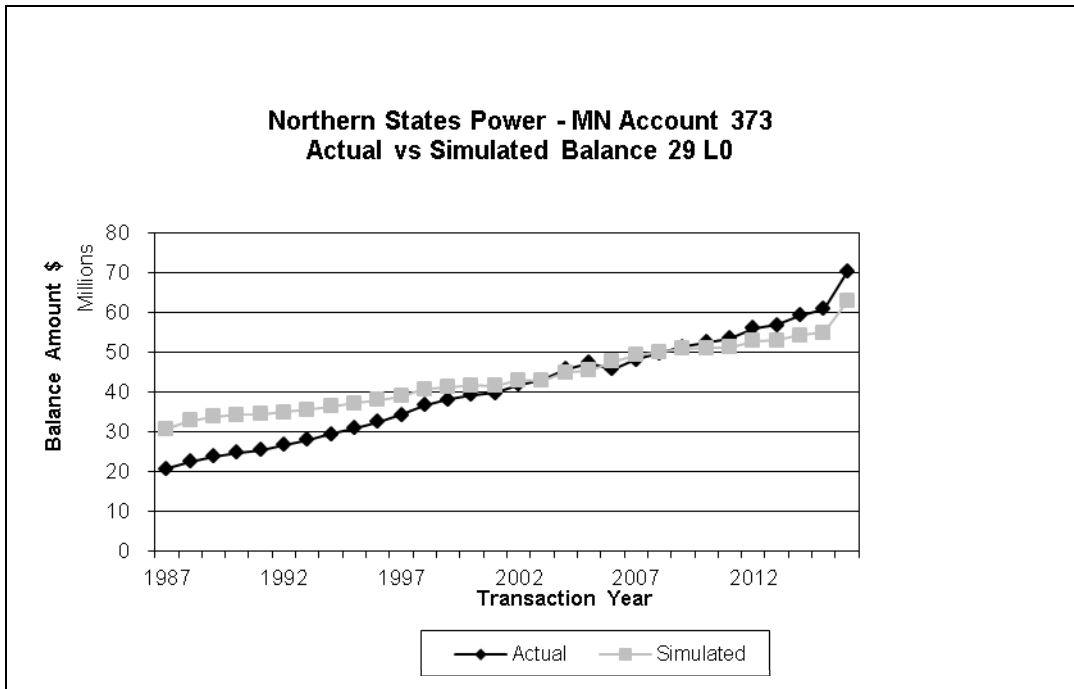
FERC Account 369 Distribution Services – Underground (proposed 44 year life with a R4 dispersion curve)

This account includes underground services and has a current investment balance in Minnesota of \$185.8 million. The currently approved life is 41 years with a R4 dispersion curve. Life analysis results are based on total Company data. Company experts expect the life for services, both underground and overhead to be approximately 40 years. Better materials have been used for underground services since the 1970s. After viewing SPR results and comparing actual versus simulated balances, a 44 year life with a R4 dispersion curve is recommended for this account.



FERC Account 373 Distribution Street Lighting & Signal Systems (proposed 29 year life with a L0 dispersion curve)

This account includes all distribution streetlights, conductor, conduit, luminaire, and standards. The current investment balance for Minnesota is \$64.2 million. The current approved life is 29 years with a L0 dispersion curve. Life analysis results are based on total Company data. SPR was used on this account, since actuarial results are only available from 2001 forward. The L0 is the top curve for many bands. As the band becomes narrower, the life increases. A comparison of the proposed curve vs. actual data is shown below. Based on judgment and Company experience, a 29 year life with a L0 dispersion curve is recommended for this account.



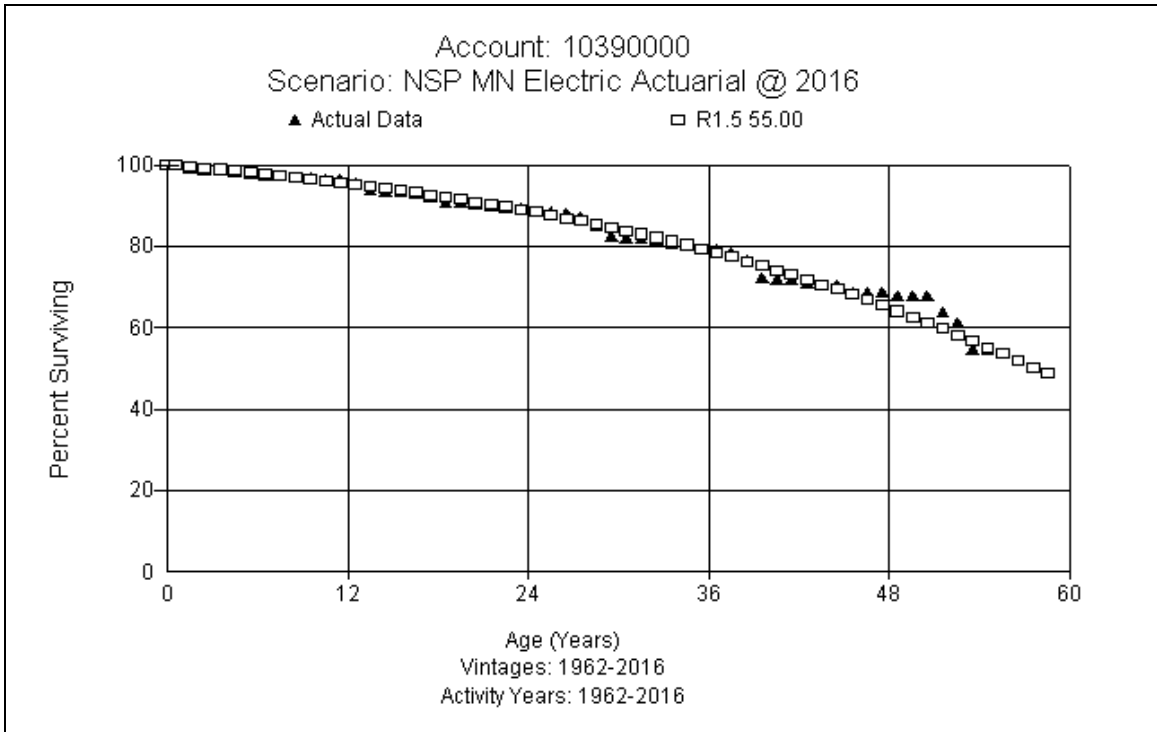
GENERAL

General Accounts, FERC Accounts 390

FERC Account 390 General Structures & Improvements (proposed 55 year life with a R1.5 dispersion curve)

This account includes the cost of general structures and improvements used for utility service. The current investment balance is \$63.5 million. The current approved life is 57 years with a R1.5 dispersion curve. Many components such as heating, ventilation, and air conditioning (“HVAC”) systems, lighting, controls, finishes, and roofing in buildings will have a much shorter life than the structure itself. Some consolidation of buildings occurs, but the Company redeploys buildings for other use when possible. Going forward, Company personnel expect to replace roofs at 20 years (currently have some that have only lasted 10 years and some that have lasted 25 years or longer) and anticipate the same time frame for HVAC (which would include boilers, cooling towers, chillers, etc.). Depending on the location (heat or heavy trucks can shorten life), parking lots would be expected to last 15-20 years.

At that point, the Company would tear up the old lot, retire and replace it with a new one. Removal cost is charged for replacing lots – a fixed percentage that can change based on specific facts of the project. The average age of buildings is over 40 years. Based on the analysis and mix of assets, this study recommends moving to a 55 year life with a R1.5 dispersion curve.



FERC Account 390 General Structures & Improvements - Leased (proposed 10 life with a SQ dispersion curve)

This account includes the cost of leasehold improvements used for utility service. There is approximately \$36 thousand in this account which is fully accrued.

The approved life for this account is 10 years with a SQ dispersion curve. Based on type of assets this study recommends retaining the existing 10 year life with a SQ dispersion curve. However, if the lease term changes the asset life should change accordingly. No graph is shown.

ELECTRIC VINTAGE GROUP (AMORTIZED) ACCOUNTS

For many years, NSP has used vintage group amortization where assets are large in number, but low in cost. To implement this amortization mechanism, it is necessary to first retire the assets whose age is longer than the recommended service life for each group are retired. Then, the remaining plant in service for each account is amortized using the amortization rates shown in Appendix A-1 and B. Annually, assets which reach the average service life of each account are retired when the assets reach their average service life. Thus no dispersion curve is used for assets being recovered through vintage group amortization.

DISTRIBUTION

FERC Account 368 Distribution Line Transformers (proposed 32 year life)

This account consists of line transformers and regulators. The current investment is \$372.6 million for Minnesota in this account. The current approved life of 32 years should be retained.

FERC Account 368 Distribution Line Capacitors (proposed 25 year life)

This account consists of line capacitors. The current investment is \$18.8 million for Minnesota in this account. However, \$3.6 million is considered fully depreciated, so the adjusted balance is \$15.2 million. The current approved life of 25 years should be retained.

FERC Account 370 Distribution Meters (proposed 15 year life)

This account includes new distribution meters. The current investment is \$96.3 million for Minnesota. However, \$42.0 million is considered fully depreciated, so the adjusted balance is \$54.3 million. The current approved life of 15 years should be retained.

GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

FERC Account 303 Intangible Computer Software – 5 year (proposed 5 year life)

This account consists of miscellaneous computer software. The current investment is \$115.2 million. However, \$27.8 million is considered fully accrued so the adjusted balance is \$87.4 million. The current approved life of 5 years should be retained.

FERC Account 391 General Office Furniture & Equipment (proposed 20 year life)

This account consists of miscellaneous office furniture such as desks, chairs, filing cabinets, and tables used for general utility service. The current investment is \$27.6 million. The current approved life of 20 years should be retained.

FERC Account 391 General Network Equipment (proposed 6 year life)

This account consists of computer equipment used for general utility service. The current investment is \$32.4 million. The currently approved life is 4 years. Interviews with Company personnel show this equipment is lasting longer, and this study recommends moving to a 6 year life for this account.

FERC Account 392 General Transportation Equipment - Automobiles (proposed 10 year life)

This account consists of automobiles used for general utility service. The current investment is \$1.1 million. The current approved life of 10 years should be retained.

FERC Account 392 General Transportation Equipment - Light Trucks (proposed 10 year)

This account consists of light trucks used for general utility service. The

current investment is \$32.8 million. However, \$6.2 million is considered fully accrued so the adjusted balance is \$26.6 million. The current approved life is 12 years. Interviews with Company personnel show they are retiring light trucks earlier than in the past; therefore, this study recommends moving to a 10 year life for this account.

FERC Account 392 General Transportation Equipment - Trailers (proposed 12 year life)

This account consists of trailers used for general utility service. The current investment is \$17.9 million. The current approved life is 15 years. Interviews with Company personnel show they are retiring trailers earlier than in the past; therefore, this study recommends moving to a 12 year life for this account.

FERC Account 392 General Transportation Equipment - Heavy Trucks (proposed 12 year)

This account consists of heavy trucks used for general utility service. The current investment is \$97.6 million. However, \$4.1 million is considered fully accrued so the adjusted balance is \$93.5 million. The current approved life is 14 years. Interviews with Company personnel show they are retiring heavy trucks earlier than in the past; therefore, this study recommends moving to a 12 year life for this account.

FERC Account 393 General Stores Equipment (proposed 20 year)

This account consists of stores equipment used for general utility service. The current investment is \$1.6 million. The current approved life of 20 years should be retained.

FERC Account 394 General Tools, Shop & Garage Equipment (proposed 15 year life)

This account consists of various items or tools used in shop and garages

such as air compressors, grinders, mixers, hoists, and cranes. The current investment is \$81.3 million. However, \$188 thousand is considered fully accrued so the adjusted balance is \$81.1 million. The current approved life of 15 years should be retained.

FERC Account 395 General Laboratory Equipment (proposed 10 year life)

This account consists of laboratory equipment used in general utility service. The current investment is \$3.2 million. The current approved life of 10 years should be retained.

FERC Account 396 General Power Operated Equipment (proposed 12 year life)

This account consists of bulldozers, forklifts, trenchers, and other power operated equipment that cannot be licensed on roadways. The current investment is \$45.1 million. The current approved life is 12 years should be retained.

FERC Account 397 General Communication Equipment (proposed 10 year life)

This account consists of miscellaneous communication equipment used in general utility service. The current investment is \$17.1 million. However, \$159 thousand is considered fully accrued so there will be an adjusted balance of \$16.9 million. The current approved life of 9 years. Interviews with Company personnel show this equipment is lasting longer, and this study recommends moving to a 10 year life for this account.

FERC Account 397 General Communication Equipment – Two Way (proposed 10 year life)

This account consists of miscellaneous two way communication equipment used in general utility service. The current investment is \$6.5 million. The current approved life is 9 years. Interviews with Company personnel show this equipment is lasting longer, and this study recommends moving to a 10 year life for this account.

FERC Account 397 General Communication Equipment – AES (proposed 15 year life)

This account consists of miscellaneous automated energy services (“AES”) including electronic or automated meter reading communication equipment used in general utility service. The current investment is \$7.1 million. The current approved life of 15 years should be retained.

FERC Account 397 General Communication Equipment – EMS (proposed 15 year life)

This account consists of energy management system (“EMS”) communication equipment used for energy monitoring and controlling equipment to manage general utility service. The current investment is \$47.3 million. The current approved life of 15 years should be retained.

FERC Account 398 General Miscellaneous Equipment (proposed 15 year life)

This account consists of miscellaneous equipment used in general utility service. The current investment is \$2.72 million. However, \$66 thousand is considered fully accrued so there will be an adjusted balance of \$2.66 million. The current approved life of 15 years should be retained.

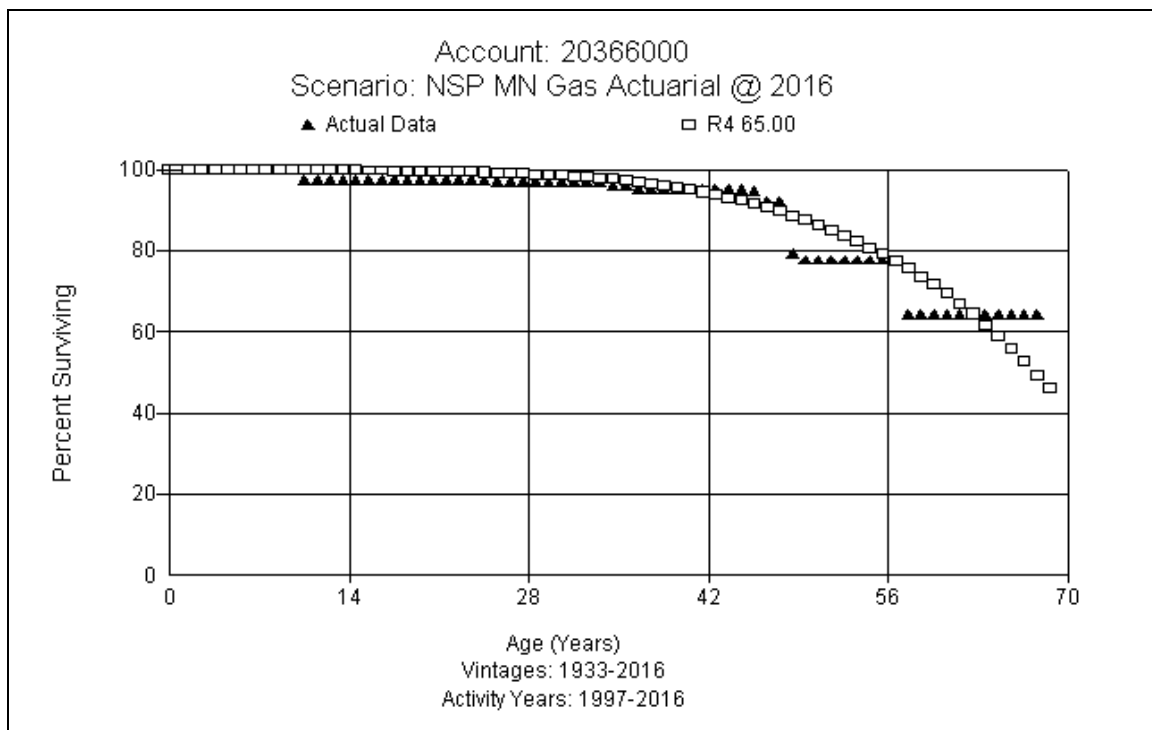
GAS PLANT

TRANSMISSION

Transmission Accounts, FERC Accounts 366 - 369

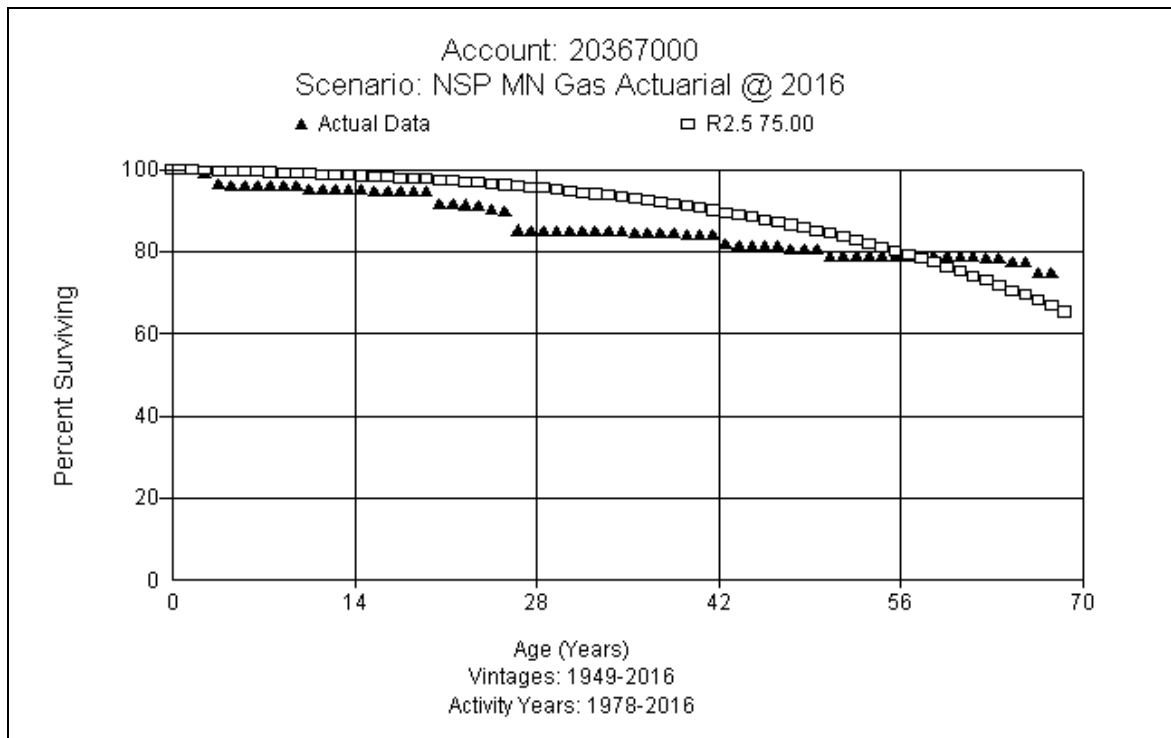
FERC Account 366 Transmission Structures & Improvements (proposed 65 year life with a R4 dispersion curve)

This account includes the cost of structures and improvements used in conjunction with transmission operations such as buildings, fences, or other structures. The plant balance in this account is \$1.1 million. The current approved life is 52 years with a R3 dispersion curve. Life analysis shows a longer life. Based on actuarial analysis, a 65 year life with a R4 dispersion curve is recommended. A graph of the observed life table vs. the proposed life and curve is shown below.



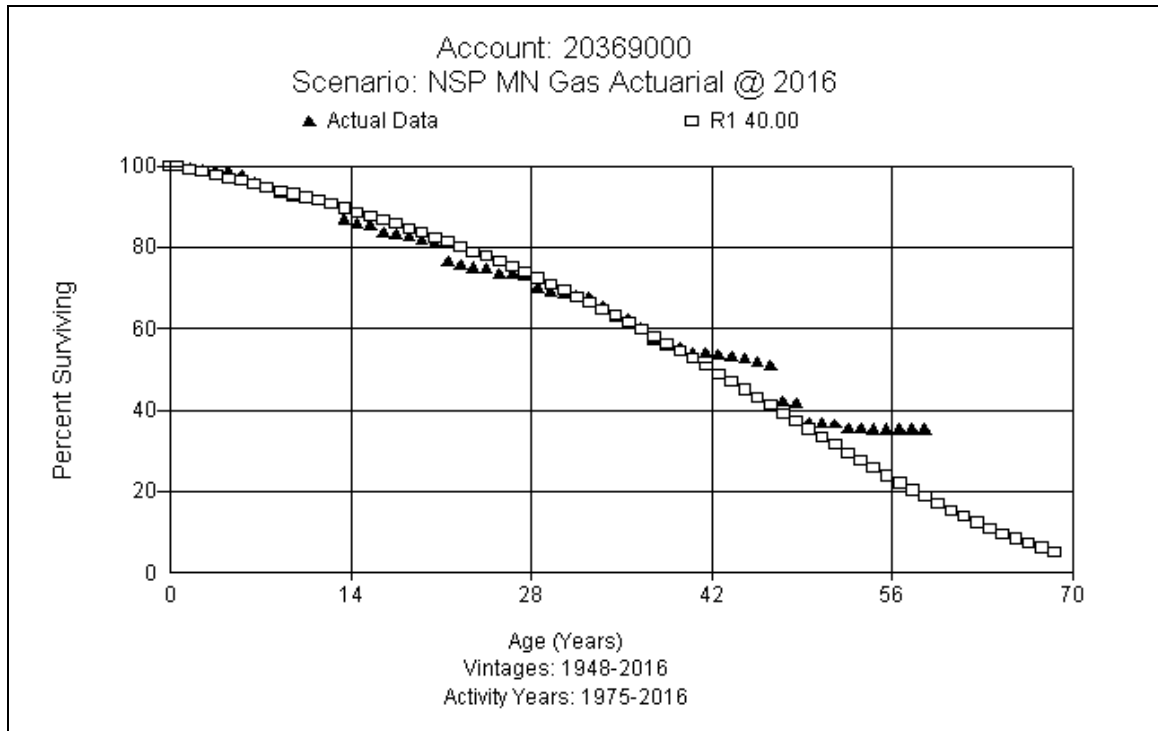
FERC Account 367 Transmission Mains (proposed 75 year life with a R2.5 dispersion curve)

This account includes the cost of transmission system mains including excavation costs, pipe, valves, and other equipment. The plant balance in this account is \$65.8 million. The current approved life is 75 years with a R2.5 dispersion curve. There are only 100 miles of transmission mains in Minnesota – nothing older than 1940s (very few miles prior to 1950s). A large project started in 2013 to replace nearly 15% of the transmission pipe (pressure coupled). Much of it was installed in late 1960s and early 1970s. For the existing asset base, 13 miles was installed in the 1940s, 27 miles in 1950s, 6 miles in the 60s, 10 miles in the 70s, 3 miles in the 80s, 13 miles in the 1990s (1995), with the rest being newer. Based on actuarial analysis and the mix of assets, this study recommends retaining a 75 year life with a R2.5 dispersion curve. A graph of actual data versus the proposed curve is shown below.



FERC Account 369 Transmission Measure & Regulating Station Equipment (proposed 40 year life with a R1 dispersion curve)

This account includes the costs of meters, gauges, and other equipment used to measure or regulate gas in connection with transmission city gate (town border station) operations. The plant balance in this account is \$13.6 million. The current approved life is 33 years with a R1.5 dispersion curve. Measurement equipment is replaced as technology improves – (e.g. from mercury meters, to chart recorders, to electronic flow meters). Life indications across various placement and experience bands show the 40 R1 to be a good match. Based on actuarial analysis and the mix of assets, this study recommends moving to a 40 year life with a R1 dispersion curve. A graph of actual data versus the proposed curve is shown below.

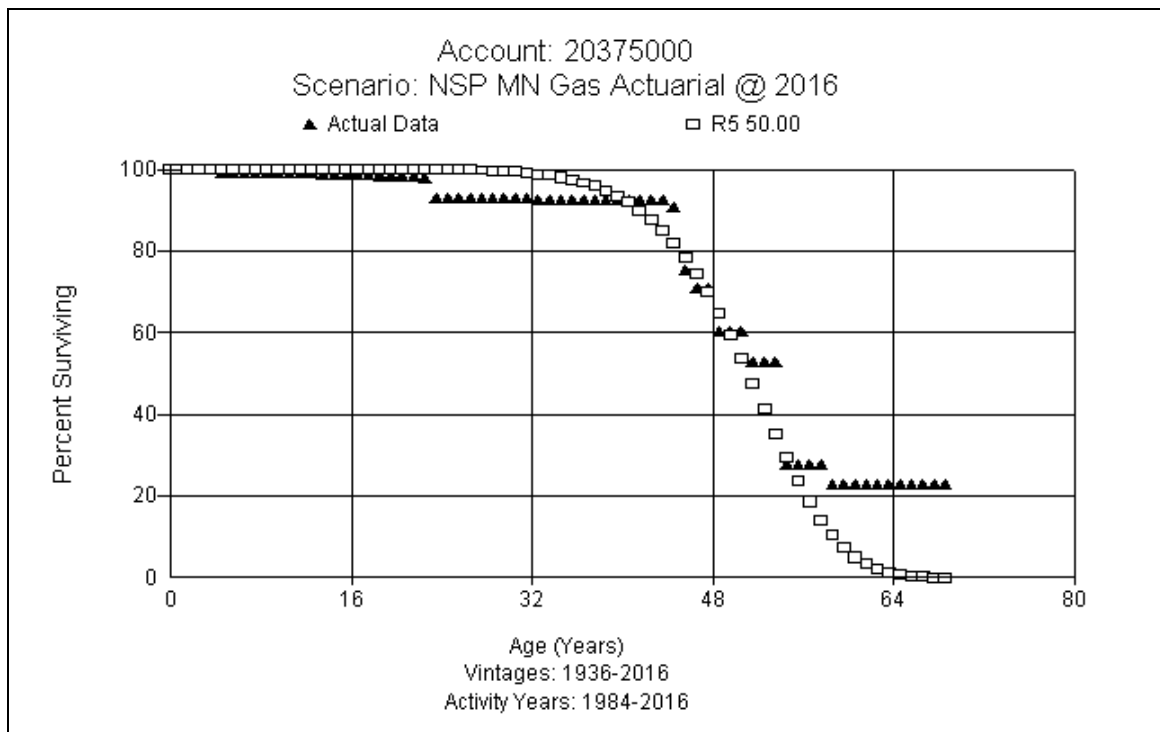


DISTRIBUTION

Distribution Accounts, FERC Accounts 375 - 380

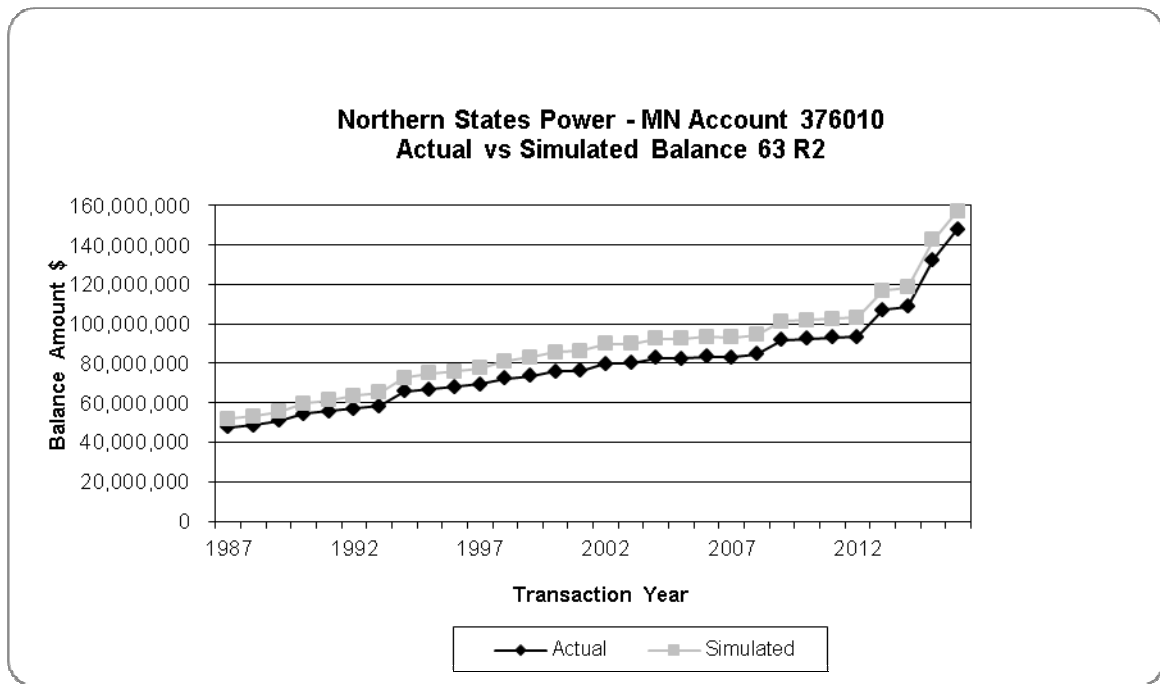
FERC Account 375 Distribution Structures & Improvements (proposed 50 year life with a R5 dispersion curve)

This account consists of small structures and improvements to such structures and associated assets at city gates and on the main line distribution system. The current investment is \$728 thousand for Minnesota. The current approved life is 41 year life with a R5 dispersion curve. Based on judgment and general expectations for structures, this study recommends moving to a 50 year life while retaining the R5 dispersion curve for this account. A graph of actual data versus the proposed curve is shown below.



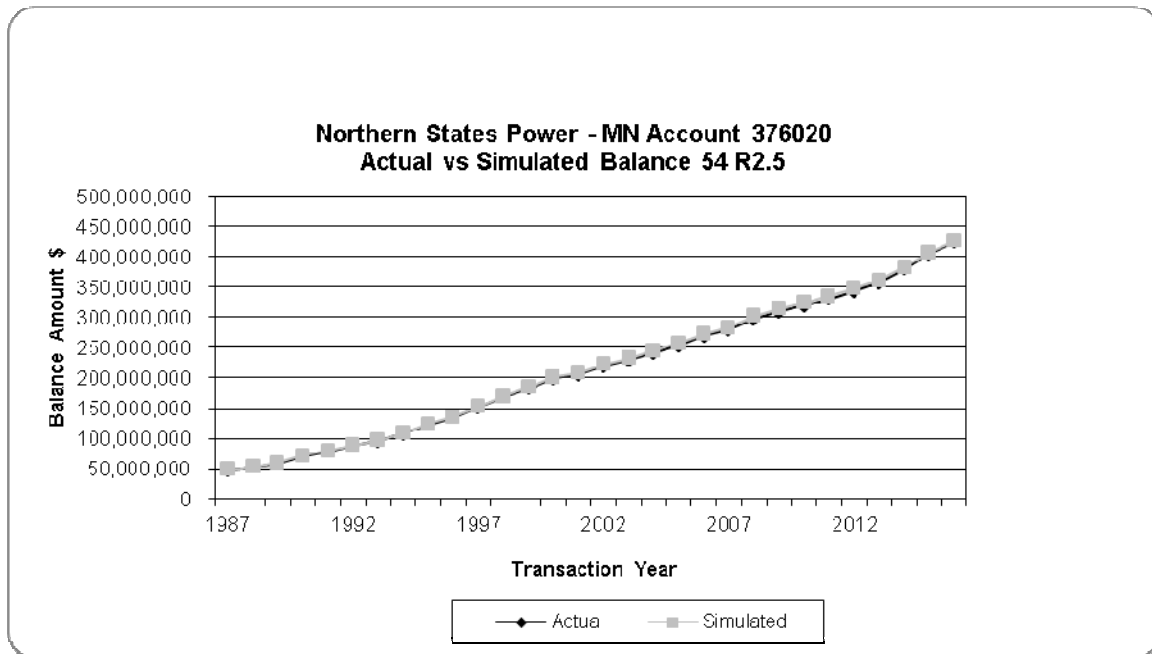
FERC Account 376 Distribution Mains – Metallic (proposed 63 year life with a R2 dispersion curve)

This account includes all steel mains. The current approved life is 51 years with a R1.5 dispersion curve. The current investment balance for Minnesota is \$135.1 million for this account. Life analysis results are based on total Company data. The average age of facilities is younger than many other utilities driven by growth in the mid to late 1990s. Actuarial data only exists from 2001 forward. SPR analysis shows a longer life in more recent periods. Based on judgment, this study recommends a change to a 63 year life with a R2 dispersion curve for this account. A comparison of actual versus simulated balances is shown below for the 63 year life with a R2 dispersion curve.



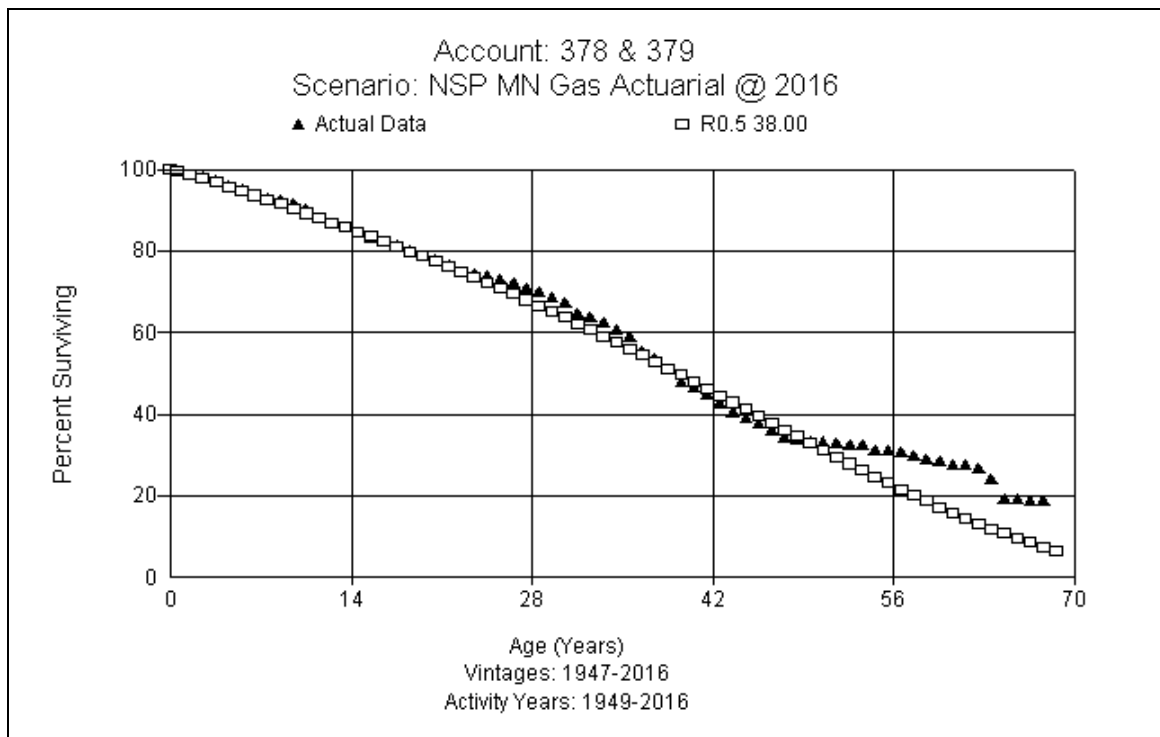
FERC Account 376 Distribution Mains – Plastic (proposed 54 year life with a R2.5 dispersion curve)

This account includes all plastic mains. The current approved life is 45 years with a R2.5 dispersion curve. The current investment balance for Minnesota is \$384.4 million for this account. Life analysis results are based on total Company data. Company personnel report that 99% of new distribution mains are plastic. The Company is aggressively replacing pre 1960's assets, with early 1970's polyethylene targeted next. Actuarial data only exists from 2001 forward. SPR analysis shows a similar life to the existing approved life. Based on judgment, this study recommends a 54 year life with a R2.5 dispersion curve. A comparison of actual versus simulated balances is shown below for the 54 year life and R2.5 dispersion curve.



FERC Account 378 Distribution Measure & Regulating Station Equipment – General (proposed 38 year life with a R0.5 dispersion curve)

This account consists of meters, gauges, and other equipment used in measuring and regulating gas in connection with distribution system operations other than the measurement of gas deliveries city gate and to customers. The current approved life is a 38 year life with a R0.5 dispersion curve. The current investment balance for Minnesota is \$22.8 million for this account. Life analysis results are based on total Company data. Consistent with the last depreciation study, this study combines the assets in Account 378 and 379 due to the similarity between the assets in each account. Actuarial analysis showed that a 38 year life with a R0.5 dispersion curve is a good match across the various experience bands. This study recommends retaining the existing 38 year life with a R0.5 dispersion. A graph of actual data versus the proposed curve is shown below.

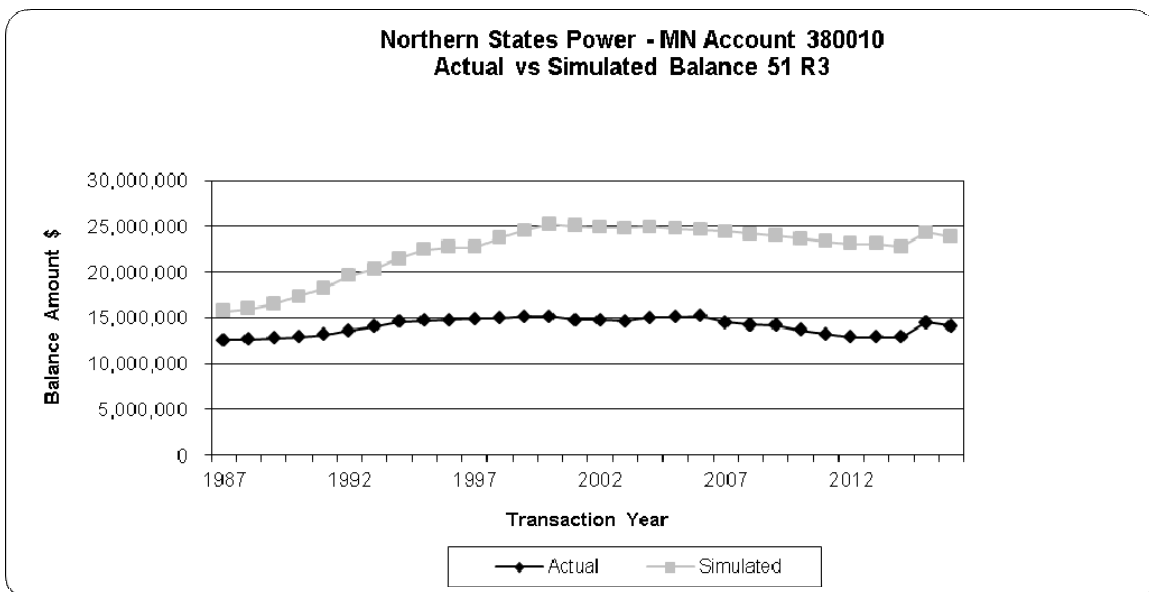


**FERC Account 379 Distribution Measure & Regulating Station Equipment -
City Gate (proposed 38 year life with a R0.5 dispersion curve)**

This account includes the measuring and regulating devices and other apparatus at city gate stations. There is a current investment of \$1.4 million for Minnesota in this account. The current approved life is a 38 year life with a R0.5 dispersion curve. Consistent with the prior study Account 378 and 379 were combined for life analysis purposes due to the similarity of the assets, similarity of use and expected lives. The resulting recommendation is a 38 year life with a R0.5 dispersion curve for both accounts. A graph of actual data versus the proposed curve is shown above in Account 378.

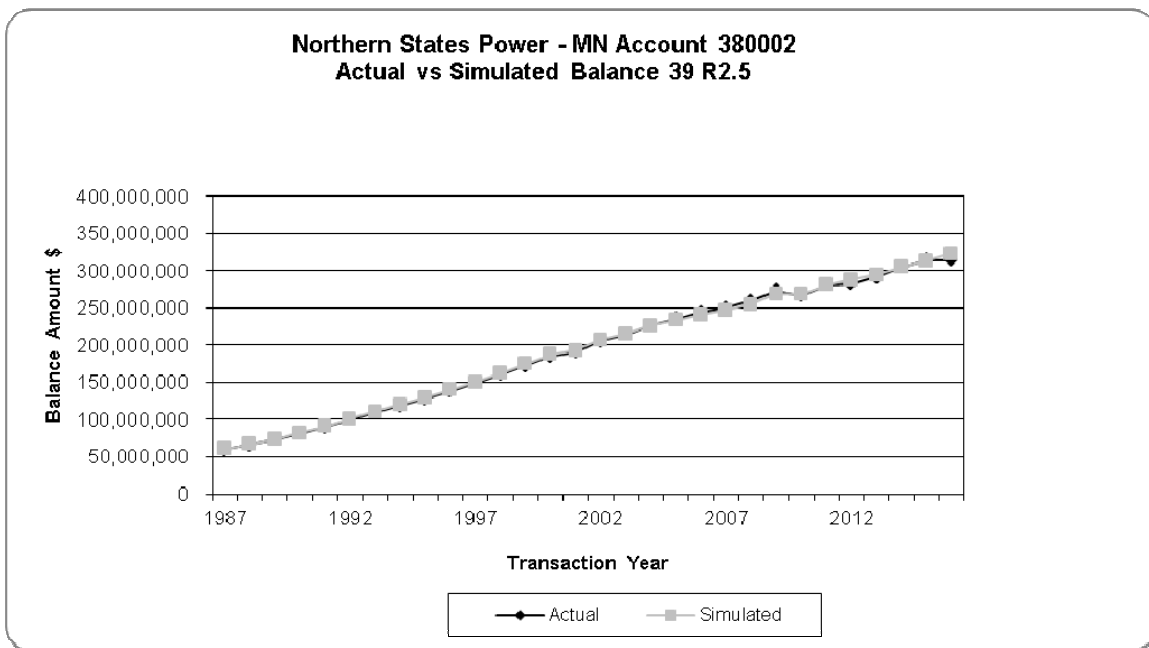
FERC Account 380 Distribution Services - Metallic (proposed 51 year life with a R3 dispersion curve)

Service lines are the steel pipes and accessories leading from the main to the customers' premises. This account has a current investment of \$12.6 million for Minnesota. The current approved life is 40 years with a S3 dispersion curve. Life analysis results are based on total Company data. Age is the primary driver of retirement of services. In a renewal area (road or otherwise), the practice is to renew all services when mains are renewed. Normal processes also trigger replacements (e.g. leak issues or compression coupled). Since actuarial data exists only for 2001 forward, this account was analyzed using SPR. Life analysis results show a longer life for this account than is currently approved. Since processes are in place to improve life expectations in this account, this study recommends moving to a 51 year life and R3 dispersion curve for this account. A comparison of actual versus simulated balances is shown below for the 51 R3 curve.



FERC Account 380 Distribution Services - Plastic (proposed 39 year life with a R2.5 dispersion curve)

Service lines are the plastic pipes and accessories leading from the main to the customers' premises. This account has a current investment of \$272.7 million for Minnesota. Life analysis results are based on total Company data. The current approved life is 39 R2.5. Since actuarial data exists only for 2001 forward, this account was analyzed using SPR. Life analysis results show a similar life to the existing approved life for this account. This study recommends retaining the existing 39 year life with a R2.5 dispersion curve for this account. A comparison of actual versus simulated is shown for the proposed 39 year life and R2.5 dispersion curve.

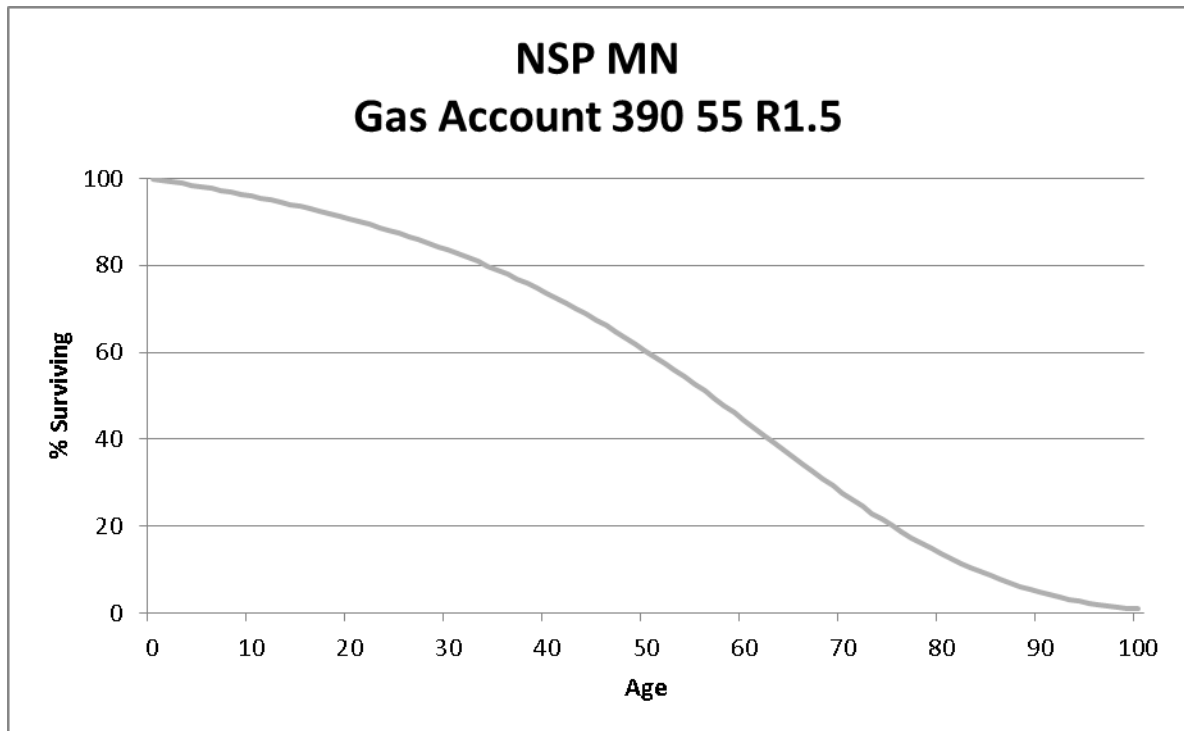


GENERAL

General Accounts, FERC Accounts 390

FERC Account 390 General Structures & Improvements (proposed 55 year life with a R1.5 dispersion curve)

This account includes the cost of general structures and improvements used for utility service. The current investment balance is \$1.5 million. The current approved life is 55 years with a R1.5 dispersion curve. Gas mortality data in this account shows a shorter life than currently approved, but this trend is not expected to continue. Based on judgment, this study proposes to retain the existing 55 year life with a R1.5 dispersion curve for this account. A graph of the proposed curve for this account is shown below.



GAS VINTAGE GROUP (AMORTIZED) ACCOUNTS

GAS DISTRIBUTION

Account 381 Distribution Meters (proposed 20 year life)

This account includes the cost of meters and house regulators installed after 1994. The current investment is \$105.1 million for Minnesota. However, \$12.9 million is considered fully accrued and results in an adjusted study balance of \$92.2 million. The current approved life of 20 years should be retained.

Account 381 Distribution Meters - Telemetry (proposed 8 year life)

This account includes the cost of telemetry assets. The current investment is \$37 thousand for Minnesota. However, the current investment is fully amortized. The current approved life of 8 years should be retained. This analysis is for any future investment in this account.

Account 383 Distribution House Regulators (proposed 20 year life)

This account includes the cost of house regulators installed before 1995 that were not combined with the meter account. The current investment is \$10.1 million for Minnesota. The current approved life of 20 years should be retained.

GAS GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

The same life parameters used for electric plant are proposed for amortized gas plant due to the similar operations and policies. The table below summarizes recommendations and plant balances by account.

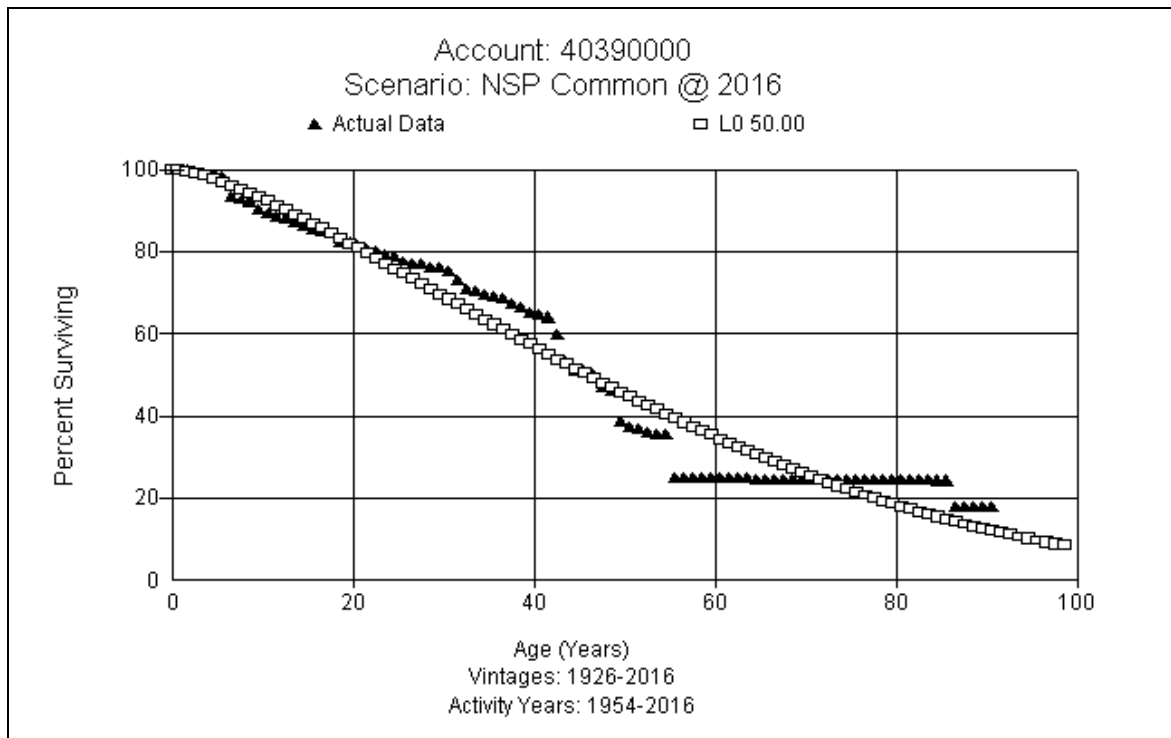
| Acct | Description | Plant \$ x 000 | Fully Accrued \$ x 000 | Adjusted \$ x 000 | Current Life | Proposed Life |
|---------------|---|----------------|------------------------|-------------------|--------------|---------------|
| Intangible | | | | | | |
| 303 | Computer Software - 5 Year | 7,256.6 | 3,062.6 | 4,194.0 | 5 | 5 |
| 303 | Computer Software – 10 Year | 234.3 | 0.0 | 234.3 | 10 | 10 |
| | | | | | | |
| General Plant | | | | | | |
| 391 | Office Furniture & Equipment | 906.4 | 0.0 | 906.4 | 20 | 20 |
| 391 | Network Equipment | 38.0 | 0.0 | 38.0 | 4 | 6 |
| 392 | Transportation Equipment - Automobiles | 376.9 | 0.0 | 376.9 | 10 | 10 |
| 392 | Transportation Equipment – Light Trucks | 6,054.5 | 847.5 | 5,207.0 | 12 | 10 |
| 392 | Transportation Equipment - Trailers | 1,504.1 | 50.3 | 1,453.8 | 15 | 12 |
| 392 | Transportation Equipment - Heavy Trucks | 8,425.9 | 725.1 | 7,700.8 | 14 | 12 |
| 393 | Stores Equipment | 10.1 | 0.0 | 10.1 | 20 | 20 |
| 394 | Tools, Shop & Garage Equipment | 6,257.8 | 59.1 | 6,198.7 | 15 | 15 |
| 395 | Laboratory Equipment | 0.0 | 0.0 | 0.0 | 10 | 10 |
| 396 | Power Operated Equipment | 2,858.2 | 0.0 | 2,858.2 | 12 | 12 |
| 397 | Communication Equipment | 4,722.3 | 0.0 | 4,722.3 | 9 | 10 |
| 397 | Communication Equipment – Two Way | 120.1 | 0.0 | 120.1 | 9 | 10 |
| 397 | Communication Equipment - AES | 15,492.8 | 0.0 | 15,492.8 | 15 | 15 |
| 397 | Communication Equipment - EMR | 764.4 | 0.0 | 764.4 | 15 | 15 |
| 398 | Miscellaneous Equipment | 50.7 | 0.0 | 50.7 | 15 | 15 |

COMMON UTILITY PLANT DEPRECIATED ACCOUNTS

General Accounts, FERC Accounts 390

FERC Account 390 General Structures & Improvements (proposed 50 year life with a L0 dispersion curve)

This account includes the cost of general structures and improvements used for utility service. There is approximately \$151.8 million in this account. The approved life for this account is 55 years and a R1.5 dispersion curve. Based on actuarial analysis, this study recommends moving to a 50 year life with a L0 dispersion curve.



FERC Account 390 General Structures & Improvements - Leased (proposed 10 life with a SQ dispersion curve)

This account includes the cost of leasehold improvements used for utility service. There is approximately \$18.5 million in this account for one property where the lease is set to expire June 2026. The approved life for this account is 10 years with a SQ dispersion curve. Based on type of assets this study recommends retaining the existing 10 year life with a SQ dispersion curve. However, if the lease term changes the asset life should change accordingly. No graph is shown.

GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

The same life parameters used for electric and gas plant are proposed for amortized common plant due to the similar operations and policies with the exception of Account 391 Network Equipment. In Common plant, there are a large number of laptops booked in this account and a 5 year life is recommended for Common plant. The table below summarizes recommendations and plant balances by account.

| Acct | Description | Plant \$ x 000 | Fully Accrued \$ x 000 | Adjusted \$ x 000 | Current Life | Proposed Life |
|---------------|--|-------------------|------------------------------|----------------------|-----------------|------------------|
| Intangible | | | | | | |
| 303 | Computer Software - 3 Year | 7,673.5 | 7,673.5 | 0.0 | 3 | 3 |
| 303 | Computer Software - 5 Year | 197,541.3 | 87,306.0 | 110,232.3 | 5 | 5 |
| 303 | Computer Software - 7 Year | 44,140.6 | 44,140.6 | 0.0 | 7 | 7 |
| 303 | Computer Software - 10 Year | 68,449.2 | 58,267.7 | 10,181.5 | 10 | 10 |
| 303 | Computer Software - 15 Year | 61,015.4 | 0.0 | 61,015.4 | 15 | 15 |
| General Plant | | | | | | |
| 391 | Office Furniture & Equipment | 27,141.6 | 2,929.1 | 24,212.5 | 20 | 20 |
| 391 | Network Equipment | 100,446.2 | 3.3 | 100,442.9 | 4 | 5 |
| 392 | Transportation Equipment - Automobiles | 823.5 | 0.0 | 823.5 | 10 | 10 |
| 392 | Transportation Equipment - Light Trucks | 3,431.5 | 25.3 | 3,406.2 | 12 | 10 |
| 392 | Transportation Equipment - Trailers | 1,099.7 | 104.3 | 995.3 | 15 | 12 |
| 392 | Transportation Equipment - Heavy Trucks | 5,505.4 | 1,252.3 | 4,253.1 | 14 | 12 |
| 393 | Stores Equipment | 246.2 | 0.0 | 246.2 | 20 | 20 |
| 394 | Tools, Shop & Garage Equipment | 4,041.7 | 10.9 | 4,030.8 | 15 | 15 |
| 395 | Laboratory Equipment | 0.0 | 0.0 | 0.0 | 10 | 10 |
| 396 | Power Operated Equipment | 990.9 | 281.2 | 709.7 | 12 | 12 |
| 397 | Communication Equipment | 964.4 | 248.6 | 715.8 | 9 | 10 |
| 397 | Communication Equipment - Two Way | 75.1 | 0.0 | 75.1 | 9 | 10 |
| 398 | Miscellaneous Equipment | 582.2 | 0.0 | 582.2 | 15 | 15 |

Salvage Analysis

When a capital asset is retired, physically removed from service and finally disposed of, terminal retirement is said to have occurred. The residual value of a terminal retirement is called gross salvage. Net salvage is the difference between the gross salvage (what the asset was sold for) and the removal cost (cost to remove and dispose of the asset). Salvage and removal cost percentages are calculated by dividing the current cost of salvage or removal by the original installed cost of the asset. Some plant assets can experience significant negative removal cost percentages due to the timing of the original addition versus the retirement.

The net salvage analysis uses the history of the individual accounts to estimate the future net salvage that NSP can expect in its operations. This study also removes reimbursements for relocations that may have been booked to gross salvage. Any associated retirements are also removed from the data for consistency. As a result, the analysis not only looks at the historical experience of NSP, but also takes into account recent and expected changes in operations that could reasonably lead to different future expectations for net salvage than were experienced in the past.

Salvage Characteristics

For most accounts, data for retirements, gross salvage, and cost of removal for each account is available from 1950-2016. Some accounts have shorter periods with available data. Moving averages, which remove timing differences between retirement and salvage and removal cost, were analyzed over periods varying from two to 10 years.

ELECTRIC PLANT

TRANSMISSION

Transmission Accounts, FERC Accounts 352-358

FERC Account 352 Transmission Structures & Improvements (proposed negative 5 percent net salvage)

This account consists of any gross salvage and cost of removal associated with transmission structures and improvements which include buildings, fencing and other structures found in a transmission substation. The approved net salvage for this account is 0 percent. The most recent moving averages show negative net salvage and increased costs of removal due to changes in capacity and station reconfiguration. Taking that into consideration, negative 5 percent net salvage for this account is recommended.

FERC Account 353 Transmission Station Equipment (proposed negative 15 percent net salvage)

This account consists of any gross salvage and cost of removal associated with transmission substation equipment, from circuit breakers to switchgear. The approved net salvage for this account is negative 10 percent. The most recent 5 and 10 year moving averages show negative 16.93 percent and negative 20.10 percent net salvage respectively. Moving in the direction of that trend, negative 15 percent net salvage for this account is recommended.

FERC Account 354 Transmission Towers & Fixtures (proposed negative 35 percent net salvage)

This account consists of any gross salvage and cost of removal associated with transmission towers and fixtures, which are used to transmit electricity at a voltage of 69 kV and above. This study recommends the current approved net salvage of negative 35 percent should be retained.

FERC Account 355 Transmission Poles & Fixtures (proposed negative 50 percent net salvage)

This account consists of any gross salvage and cost of removal associated with transmission poles and fixtures, which are used to transmit electricity at a voltage of 69 kV and above. The approved net salvage for this account is negative 35 percent. The most recent 5 and 10 year moving averages show negative 108.84 percent and negative 105.28 percent net salvage respectively. Moving in the direction of that trend, negative 50 percent net salvage for this account is recommended.

FERC Account 356 Transmission Overhead Conductor & Devices (proposed negative 35 percent net salvage)

This account consists of any gross salvage and cost of removal associated with Transmission overhead conductors, which are used to transmit electricity at voltages of 69 kV and above. The approved net salvage for this account is negative 30 percent. The most recent 5 and 10 year moving averages show negative 69.71 percent and negative 41.68 percent net salvage respectively. Moving in the direction of that trend, negative 35 percent net salvage for this account is recommended.

FERC Account 357 Transmission Underground Conduit (proposed 0 percent net salvage)

This account consists of any gross salvage and cost of removal associated with underground conduit. The approved net salvage for this account is 0 percent. There is limited retirement and net salvage activity in recent years. . Based on judgment, retention of 0 percent net salvage for this account is recommended.

FERC Account 358 Transmission Underground Conductor & Devices (proposed negative 5 percent net salvage)

This account consists of any gross salvage and cost of removal associated

with underground conductor. The lines are low pressure oil filled; paper wrapped 500 MCM copper cable. The approved net salvage for this account is 0 percent. Data is limited for this account. The most recent 5 and 10 year moving averages show negative 132.36 percent and negative 16.03 percent net salvage, respectively. Retirement data is limited for this account, however removal costs are sometimes quite high when retirements occur; therefore, moving to negative 5 percent net salvage for this account is recommended.

DISTRIBUTION

Distribution Accounts, FERC Accounts 361 - 373

FERC Account 361 Distribution Structures & Improvements (proposed negative 30 percent net salvage)

This account contains any gross salvage and cost of removal associated with facilities ranging from fencing to other structures found in distribution substations. The approved net salvage for this account is negative 30 percent. The most recent 5 and 10 year moving averages show negative 196.40 percent and negative 139.35 percent net salvage respectively. Since there is a low level of retirement data and it is sporadic for this account, retention of negative 30 percent net salvage for this account is recommended.

FERC Account 362 Distribution Station Equipment (proposed negative 25 percent net salvage)

This account contains any gross salvage and cost of removal associated with a wide variety of distribution substation equipment, from circuit breakers to switchgear. The approved net salvage for this account is negative 20 percent. The most recent 5 and 10 year moving averages show negative 26.77 percent and negative 26.68 percent net salvage respectively. Moving in the direction of that trend, negative 25 percent net salvage for this account is recommended.

FERC Account 364 Distribution Poles, Towers & Fixtures (proposed negative

120 percent net salvage)

This account contains any gross salvage and cost of removal associated with poles and towers of various material types: wood and steel. The approved net salvage for this account is negative 100 percent. The most recent 5 and 10 year moving averages show negative 255.40 percent and negative 244.52 percent net salvage respectively. Moving in the direction of that trend, negative 120 percent net salvage for this account is recommended.

FERC Account 365 Distribution Overhead Conductor & Devices (proposed negative 25 percent net salvage)

This account consists of any gross salvage and cost of removal associated with overhead conductor of various thickness, as well as various switches and reclosers. The approved net salvage for this account is negative 20 percent. The most recent 5 and 10 year moving averages show negative 44.23 percent and negative 33.49 percent net salvage respectively. Moving in the direction of that trend, negative 25 percent net salvage for this account is recommended.

FERC Account 366 Distribution Underground Conduit (proposed negative 20 percent net salvage)

This account consists of any gross salvage and cost of removal associated with conduit, duct banks, vaults, manholes, and ventilating system equipment. The approved net salvage for this account is negative 10 percent. The most recent 5 and 10 year moving averages show negative 276.23 percent and negative 89.75 percent net salvage respectively. Moving in the direction of that trend, negative 20 percent net salvage for this account is recommended.

FERC Account 367 Distribution Underground Conductor & Devices (proposed negative 10 percent net salvage)

This account consists of any gross salvage and cost of removal associated with underground distribution conductor, switches, and switchgear. The approved

net salvage for this account is 0 percent. The most recent 5 and 10 year moving averages show negative 45.44 percent and negative 26.99 percent net salvage respectively. Moving in the direction of that trend, a negative 10 percent net salvage for this account is recommended.

FERC Account 369 Distribution Services – Overhead (proposed negative 85 percent net salvage)

This account includes any gross salvage or cost of removal associate with overhead services. The approved net salvage for this account is negative 70 percent. The last depreciation study combined data for overhead and underground services, whereas this study separates the two. The most recent 5 and 10 year moving averages show negative 163.18 percent and negative 127.99 percent net salvage respectively. Moving in the direction of that trend, negative 85 percent net salvage for this account is recommended.

FERC Account 369 Distribution Services – Underground (proposed negative 5 percent net salvage)

This account includes any gross salvage and cost of removal associated with underground services. The approved net salvage for this account is negative 5 percent. The last study combined data for overhead and underground services, whereas this study separates the two. The most recent 5 and 10 year moving averages show negative 50.02 percent and negative 7.72 percent net salvage respectively. Retaining the existing negative 5 percent net salvage for this account is recommended.

FERC Account 373 Distribution Street Lighting & Signal Systems (proposed negative 40 percent net salvage)

This account includes any gross salvage and cost of removal associated with distribution streetlights, conductor, conduit, luminaire, and standards. The approved net salvage for this account is negative 35 percent. The most recent 5 and 10 year

moving averages show negative 90.29 percent and negative 91.90 percent net salvage respectively. Moving in the direction of that trend, negative 40 percent net salvage for this account is recommended.

GENERAL

General Accounts, FERC Accounts 390

FERC Account 390 General Structures & Improvements (proposed negative 20 percent net salvage)

This account includes the any gross salvage and cost of removal associated with cost of general structures and improvements used for utility service. The approved net salvage for this account is negative 20 percent. The most recent 5 and 10 year moving averages show negative 15.70 percent and negative 19.32 percent net salvage respectively. Retaining the existing, negative 20 percent net salvage for this account is recommended.

ELECTRIC VINTAGE GROUP (AMORTIZED) ACCOUNTS

DISTRIBUTION

FERC Account 368 Distribution Line Transformers (proposed negative 5 percent net salvage)

This account consists of any gross salvage and cost of removal associated with line transformers and regulators. The approved net salvage for this account is negative 5 percent. The most recent 5 year moving averages shows negative 10.45 and negative 9.37 percent respectively. Removal and salvage vary fairly significantly over time. Therefore, retaining negative 5 percent net salvage for this account is recommended.

FERC Account 368 Distribution Line Capacitors (proposed negative 7 percent net salvage)

This account consists of line capacitors. The approved net salvage for this

account is negative 10 percent. The most recent 5 and 10 year moving averages show negative 4.18 percent and negative 6.77 percent net salvage respectively. Moving in the direction of that trend, negative 7 percent net salvage for this account is recommended.

FERC Account 370 Distribution Meters (proposed negative 5 percent net salvage)

This account includes any gross salvage and cost of removal associated with new distribution meters. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show negative 7.99 percent and negative 11.77 percent net salvage respectively. Moving in the direction of that trend, negative 5 percent net salvage for this account is recommended.

FERC Account 370 Distribution Meters – Old (proposed zero percent net salvage)

This account includes any gross salvage and cost of removal associated with all old distribution meters. The approved net salvage for this account is zero percent. Limited data shows zero percent net salvage for this account. Thus, retention of zero percent net salvage for this account is recommended.

GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

FERC Account 303 Intangible Computer Software – 5 year (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous computer software. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show zero percent net salvage. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

FERC Account 391 General Office Furniture & Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous office furniture such as desks, chairs, filing cabinets, and tables used for general utility service. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show negative 4.52 percent and negative 1.43 percent, respectively. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

FERC Account 391 General Network Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with computer equipment used for general utility service. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving average shows zero percent net salvage for both periods. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

FERC Account 392 General Transportation Equipment - Automobiles (proposed 5 percent net salvage)

This account consists of any gross salvage and cost of removal associated with automobiles used for general utility service. The approved net salvage for this

account is zero percent. In the last depreciation study, the Company applied any gross salvage for transportation equipment to the new asset. That practice has been discontinued and all salvage proceeds are now being booked to the accumulated provision for depreciation. Based on recent retirement history, 5 percent net salvage for this account is recommended.

FERC Account 392 General Transportation Equipment - Light Trucks (proposed 10 percent net salvage)

This account consists of any gross salvage and cost of removal associated with light trucks used for general utility service. The approved net salvage for this account is zero percent. In the last depreciation study, the Company applied any gross salvage for transportation equipment to the new asset. That practice has been discontinued and all salvage proceeds are now being booked to the accumulated provision for depreciation. Based on recent retirement history, 10 percent net salvage for this account is recommended.

FERC Account 392 General Transportation Equipment - Trailers (proposed 20 percent net salvage)

This account consists of any gross salvage and cost of removal associated with trailers used for general utility service. The approved net salvage for this account is zero percent. In the last depreciation study, the Company applied any gross salvage for transportation equipment to the new asset. That practice has been discontinued and all salvage proceeds are now being booked to the accumulated provision for depreciation. Based on recent retirement history, 20 percent net salvage for this account is recommended.

FERC Account 392 General Transportation Equipment - Heavy Trucks (proposed 15 percent net salvage)

This account consists of any gross salvage and cost of removal associated with heavy trucks used for general utility service. The approved net salvage for this

account is zero percent. In the last depreciation study, the Company applied any gross salvage for transportation equipment to the new asset. That practice has been discontinued and all salvage proceeds are now being booked to the accumulated provision for depreciation. Based on recent retirement history, 15 percent net salvage for this account is recommended.

FERC Account 393 General Stores Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with stores equipment used for general utility service. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show less than 1 percent net salvage for both periods. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

FERC Account 394 General Tools, Shop & Garage Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with various items or tools used in shop and garages such as air compressors, grinders, mixers, hoists, and cranes. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show zero percent net salvage. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

FERC Account 395 General Laboratory Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with laboratory equipment used in general utility service. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show zero percent net salvage. Based on history and judgment, retention of zero percent net salvage is recommended for this account.

FERC Account 396 General Power Operated Equipment (proposed 15 percent net salvage)

This account consists of any gross salvage and cost of removal associated with bulldozers, forklifts, trenchers, and other power operated equipment that cannot be licensed on roadways. The approved net salvage for this account is zero percent. In the last depreciation study, the Company applied any gross salvage for transportation equipment to the new asset. That practice has been discontinued and all salvage proceeds are now being booked to the accumulated provision for depreciation. Based on recent retirement history, 15 percent net salvage for this account is recommended.

FERC Account 397 General Communication Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous communication equipment used in general utility service. The approved net salvage for this account is zero percent. The most recent 5 and 10 year moving averages show negative 0.35 percent and negative 0.56 percent net salvage respectively. Following that trend, retention of zero percent net salvage for this account is recommended.

FERC Account 397 General Communication Equipment – Two Way (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous two way communication equipment used in general utility service. The approved net salvage for this account is zero percent. Based on experience with the other 397 accounts, retention of zero percent net salvage for this account is recommended.

FERC Account 397 General Communication Equipment – AES (proposed zero

percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous AES including electronic or automated meter reading communication equipment used in general utility service. The approved net salvage for this account is zero percent. No data for this subaccount exists. Based on experience with the other 397 accounts, retention of zero percent net salvage for this account is recommended.

FERC Account 397 General Communication Equipment – EMS (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with EMS communication equipment used for energy monitoring and controlling equipment to manage general utility service. The approved net salvage for this account is zero percent. No data for this subaccount exists. Based on experience with the other 397 accounts and the characteristics of the assets in this account, retention of zero percent net salvage for this account is recommended.

FERC Account 398 General Miscellaneous Equipment (proposed zero percent net salvage)

This account consists of any gross salvage and cost of removal associated with miscellaneous equipment used in general utility service. The approved net salvage for this account is zero percent. There is minimal retirement experience in this account. The most recent 5 and 10 year moving averages show zero and negative 3.18 percent net salvage, respectively. Based on history and judgment, retention of zero percent net salvage for this account is recommended.

GAS DEPRECIATED PLANT

TRANSMISSION

Transmission Accounts, FERC Accounts 366 - 369

FERC Account 366 Transmission Structures & Improvements (proposed negative 5 percent net salvage)

This account includes any gross salvage and cost of removal associated with structures and improvements used in conjunction with transmission operations such as buildings, fences, or other structures. The approved net salvage for this account is negative 5 percent. There is limited retirement activity in this account. Based on history and judgment, retention of negative 5 percent net salvage for this account is recommended.

FERC Account 367 Transmission Mains (proposed negative 15 percent net salvage)

This account includes any gross salvage and cost of removal associated with the costs of transmission system mains including excavation costs, pipe, valves, and other equipment. The approved net salvage for this account is negative 15 percent. The most recent 5 and 10 year moving averages show negative 65.39 percent and negative 54.80 percent net salvage respectively. The high negative net salvage is driven by large removal cost in one year and is discounted. Based on history and judgment, retention of negative 15 percent net salvage for this account is recommended.

FERC Account 369 Transmission Measure & Regulating Station Equipment (proposed negative 30 percent net salvage)

This account includes any gross salvage and cost of removal associated with the costs of meters, gauges, and other equipment used to measure or regulate gas in connection with transmission city gate (town border station) operations. The approved net salvage for this account is negative 30 percent. The most recent 5 and 10 year moving averages show negative 75.01 percent and negative 58.19

percent net salvage respectively. Based on history and judgment, retention of negative 30 percent net salvage for this account is recommended.

DISTRIBUTION

Distribution Accounts, FERC Accounts 375 - 380

FERC Account 375 Distribution Structures & Improvements (proposed negative 5 percent net salvage)

This account any gross salvage and cost of removal associated with small structures and improvements to such structures and associated assets at city gates and on the main line distribution system. The approved net salvage for this account is zero percent. Data is limited for this account. The most recent 10 year moving averages shows negative 63.47 percent net salvage. Moving in the direction of that trend, negative 5 percent net salvage for this account is recommended.

FERC Account 376 Distribution Mains – Metallic (proposed negative 25 percent net salvage)

This account includes any gross salvage and cost of removal associated with all steel mains. The approved net salvage for this account is negative 20 percent. The most recent 5 and 10 year moving averages show negative 49.60 percent and negative 41.17 percent net salvage respectively. Moving in the direction of that trend, negative 25 percent net salvage for this account is recommended.

FERC Account 376 Distribution Mains – Plastic (proposed negative 20 percent net salvage)

This account includes any gross salvage and cost of removal associated with all plastic mains. The approved net salvage for this account is negative 15 percent. The most recent 5 and 10 year moving averages show negative 133.57 percent and negative 56.76 percent net salvage respectively. Moving in the direction of that trend, negative 20 percent net salvage for this account is recommended.

FERC Account 378 Distribution Measure & Regulating Station Equipment – General (proposed negative 25 percent net salvage)

This account consists of any gross salvage and cost of removal associated with meters, gauges, and other equipment used in measuring and regulating gas in connection with distribution system operations other than the measurement of gas deliveries city gate and to customers. The approved net salvage for this account is negative 25 percent. The most recent 5 and 10 year moving averages show negative 20.03 percent and negative 28.56 percent net salvage respectively. Retention of negative 25 percent net salvage for this account is recommended.

FERC Account 379 Distribution Measure & Regulating Station Equipment - City Gate (proposed negative 5 percent net salvage)

This account consists of any gross salvage and cost of removal associated with measuring and regulating devices and other apparatus at city gate stations. The approved net salvage for this account is negative 2 percent. The most recent 5 and 10 year moving averages show negative 73.36 percent and negative 71.54 percent net salvage respectively. There are few retirement in recent years in this account which would caution against a significant movement in net salvage. A negative 5 percent net salvage for this account is recommended.

FERC Account 380 Distribution Services - Metallic (proposed negative 40 percent net salvage)

Service lines are the steel pipes and accessories leading from the main to the customers' premises. The approved net salvage for this account is negative 40 percent. The most recent 5 and 10 year moving averages show negative 40.33 percent and negative 44.77 percent net salvage respectively. Moving in the direction of that trend, negative 40 percent net salvage for this account is recommended.

FERC Account 380 Distribution Services - Plastic (proposed negative 25 percent net salvage)

Service lines are the plastic pipes and accessories leading from the main to the customers' premises. The approved net salvage for this account is negative 30 percent. The most recent 5 and 10 year moving averages show negative 11.62 percent and negative 18.24 percent net salvage respectively. The decrease in 2016 is due to a large retirement in 2016. The 5 and 10 year bands from 2015 demonstrate a net salvage more negative than 25 percent. A negative 25 percent net salvage for this account is recommended.

GENERAL

General Accounts, FERC Accounts 390

FERC Account 390 General Structures & Improvements (proposed negative 14 percent net salvage)

This account includes any gross salvage and cost of removal associated with cost of general structures and improvements used for utility service. The approved net salvage for this account is negative 20 percent. There has been little retirement activity in this account. Based on data for Account 390 Electric and 390 Common, negative 14 percent net salvage for this account is recommended.

GAS VINTAGE GROUP (AMORTIZED) ACCOUNTS

GAS DISTRIBUTION

Account 381 Distribution Meters (proposed negative 5 percent net salvage)

This account includes any gross salvage and cost of removal associated with the cost of meters. The approved net salvage for this account is negative 3 percent. The most recent 5 and 10 year moving averages show negative 4.11 percent and negative 5.82 percent net salvage respectively. A negative 5 percent net salvage for this account is recommended.

Account 381 Distribution Meters - Telemetry (proposed zero percent net salvage)

This account includes any gross salvage and cost of removal associated with the cost of telemetry assets. The approved net salvage for this account is 0 percent. There has been limited retirement experience. Based on data and judgment, retention of zero percent net salvage for this account is recommended. This analysis is for any future investment in this account. The investment in this account is fully amortized in 2017.

Account 383 Distribution House Regulators (proposed negative 1 percent net salvage)

This account includes any gross salvage and cost of removal associated with cost of house regulators. The approved net salvage for this account is zero percent. The most recent 10 year moving average shows negative 1.25 percent net salvage. Based on recent history and judgment, negative 1 percent net salvage for this account is recommended.

GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

The same net salvage parameters used for electric plant are proposed for amortized gas plant due to the similar operations and policies. The table below summarizes recommendations by account.

GAS AMORTIZED ACCOUNTS

| Acct | Description | Current Net Salvage | Proposed Net Salvage |
|---------------|---|---------------------|----------------------|
| Intangible | | | |
| 303 | Computer Software - 5 Year | 0 | 0 |
| 303 | Computer Software – 10 Year | 0 | 0 |
| | | | |
| General Plant | | | |
| 391 | Office Furniture & Equipment | 0 | 0 |
| 391 | Network Equipment | 0 | 0 |
| 392 | Transportation Equipment - Automobiles | 0 | 5 |
| 392 | Transportation Equipment - Light Trucks | 0 | 10 |
| 392 | Transportation Equipment - Trailers | 0 | 20 |
| 392 | Transportation Equipment - Heavy Trucks | 0 | 15 |
| 393 | Stores Equipment | 0 | 0 |
| 394 | Tools, Shop & Garage Equipment | 0 | 0 |
| 395 | Laboratory Equipment | 0 | 0 |
| 396 | Power Operated Equipment | 0 | 15 |
| 397 | Communication Equipment | 0 | 0 |
| 397 | Communication Equipment - AES | 0 | 0 |
| 397 | Communication Equipment - EMS | 0 | 0 |
| 398 | Miscellaneous Equipment | 0 | 0 |

COMMON UTILITY PLANT DEPRECIATED ACCOUNTS

General Accounts, FERC Account 390

FERC Account 390 General Structures & Improvements (proposed negative 25 percent net salvage)

This account includes any gross salvage or cost of removal associated with the cost of general structures and improvements used for utility service. The approved net salvage for this account is negative 20 percent. Net salvage data shows negative net salvage in most bands. The most recent 5 and 10 year averages are negative 23.43 percent and negative 41.13 percent respectively. A negative 25 percent net salvage for this account is recommended.

FERC Account 390 General Structures & Improvements – Leased (proposed zero percent net salvage)

This account includes any gross salvage or cost of removal associated with the cost of leasehold improvements used for utility service. The approved net salvage for this account is zero percent. There has been no retirement experience in this account. These assets typically have no net salvage. Based on judgment, retaining zero percent net salvage for this account is recommended.

GENERAL PLANT VINTAGE GROUP (AMORTIZED) ACCOUNTS

The same net salvage parameters used for electric and gas plant are proposed for amortized common plant due to the similar operations and policies. The table below summarizes recommendations by account.

COMMON AMORTIZED PLANT

| Acct | Description | Current Net Salvage | Proposed Net Salvage |
|---------------|---|---------------------|----------------------|
| Intangible | | | |
| 303 | Computer Software - 3 Year | 0 | 0 |
| 303 | Computer Software - 5 Year | 0 | 0 |
| 303 | Computer Software - 7 Year | 0 | 0 |
| 303 | Computer Software - 10 Year | 0 | 0 |
| 303 | Computer Software – 15 Year | 0 | 0 |
| | | | |
| General Plant | | | |
| 391 | Office Furniture & Equipment | 0 | 0 |
| 391 | Network Equipment | 0 | 0 |
| 392 | Transportation Equipment - Automobiles | 0 | 5 |
| 392 | Transportation Equipment - Light Trucks | 0 | 10 |
| 392 | Transportation Equipment - Trailers | 0 | 20 |
| 392 | Transportation Equipment - Heavy Trucks | 0 | 15 |
| 393 | Stores Equipment | 0 | 0 |
| 394 | Tools, Shop & Garage Equipment | 0 | 0 |
| 395 | Laboratory Equipment | 0 | 0 |
| 396 | Power Operated Equipment | 0 | 15 |
| 397 | Communication Equipment | 0 | 0 |
| 397 | Communication Equipment Two Way | 0 | 0 |
| 398 | Miscellaneous Equipment | 0 | 0 |

APPENDIX A
Depreciation Rate Calculations

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

2017 Summary of Annual Depreciation Accruals

Average Service Life

Utility Accounts

| FERC Account | Company Account | Account Description | Plant Balance 01/01/2017 | Depreciation Reserve 01/01/2017 | Est. Future Net Salvage % Amount | Unaccrued Balance | Remaining Life (Yrs) | Annual Accrual | Depr Rate | Reserve Ratio | |
|--------------------------------------|-----------------|----------------------------------|-----------------------------|------------------------------------|-------------------------------------|-------------------|-------------------------|----------------|-------------|---------------|---------|
| Electric Utility | | | | | | | | | | | |
| Transmission | | | | | | | | | | | |
| 352 | 10352000 | Structures & Improvements | 103,086,366 | 16,791,010 | -5% | (5,154,318) | 91,449,675 | 58.75 | 1,556,629 | 1.51% | 16.29% |
| 353 | 10353000 | Station Equipment | 1,181,449,210 | 266,220,136 | -15% | (177,217,381) | 1,092,446,456 | 44.63 | 24,478,696 | 2.07% | 22.53% |
| 354 | 10354000 | Towers & Fixtures | 118,631,858 | 66,493,064 | -35% | (41,521,150) | 93,659,945 | 42.73 | 2,191,928 | 1.85% | 56.05% |
| 355 | 10355000 | Poles & Fixtures | 1,330,556,061 | 188,365,602 | -50% | (665,278,031) | 1,807,468,490 | 55.94 | 32,313,257 | 2.43% | 14.16% |
| 356 | 10356000 | Overhead Conductor & Devices | 532,704,102 | 89,241,054 | -35% | (186,446,436) | 629,909,483 | 58.38 | 10,789,141 | 2.03% | 16.75% |
| 357 | 10357000 | Underground Conduit | 25,910,138 | 3,722,204 | 0% | - | 22,187,934 | 62.13 | 357,111 | 1.38% | 14.37% |
| 358 | 10358000 | Underground Conductor & Devices | 30,710,573 | 6,723,959 | -5% | (1,535,529) | 25,522,143 | 39.20 | 651,157 | 2.12% | 21.89% |
| Total Transmission | | | 3,323,048,309 | 637,557,028 | | (1,077,152,845) | 3,762,644,126 | | 72,337,918 | | |
| Distribution - Minnesota Only | | | | | | | | | | | |
| 361 | 10361000 | Structures & Improvements | 43,721,596 | 14,082,032 | -30% | (13,116,479) | 42,756,043 | 47.26 | 904,773 | 2.07% | 32.21% |
| 362 | 10362000 | Station Equipment | 552,978,032 | 194,058,095 | -25% | (138,244,508) | 497,164,446 | 37.99 | 13,086,190 | 2.37% | 35.09% |
| 364 | 10364000 | Poles, Towers & Fixtures | 343,536,905 | 194,086,158 | -120% | (412,244,286) | 561,695,032 | 34.83 | 16,128,736 | 4.69% | 56.50% |
| 365 | 10365000 | Overhead Conductor & Devices | 373,235,852 | 101,963,938 | -25% | (93,308,963) | 364,580,877 | 30.40 | 11,991,745 | 3.21% | 27.32% |
| 366 | 10366000 | Underground Conduit | 261,312,548 | 77,065,329 | -20% | (52,262,510) | 236,509,728 | 42.12 | 5,615,408 | 2.15% | 29.49% |
| 367 | 10367000 | Underground Conductor & Devices | 967,850,933 | 266,729,577 | -10% | (96,785,093) | 797,906,449 | 36.62 | 21,790,377 | 2.25% | 27.56% |
| 369 | 10369010 | Services - Overhead | 71,641,753 | 53,940,897 | -85% | (60,895,490) | 78,596,346 | 24.76 | 3,174,525 | 4.43% | 75.29% |
| 369 | 10369020 | Services - Underground | 185,773,119 | 83,201,886 | -5% | (9,288,656) | 111,859,888 | 25.07 | 4,461,977 | 2.40% | 44.79% |
| 373 | 10373000 | Street Lighting & Signal Systems | 64,184,329 | 20,920,586 | -40% | (25,673,732) | 68,937,475 | 22.19 | 3,106,722 | 4.84% | 32.59% |
| Total Distribution | | | 2,864,235,067 | 1,006,048,499 | | (901,819,716) | 2,760,006,284 | | 80,260,452 | | |
| General | | | | | | | | | | | |
| 390 | 10390000 | Structures & Improvements | 63,508,306 | 23,807,986 | -20% | (12,701,661) | 52,401,982 | 36.29 | 1,444,043 | 2.27% | 37.49% |
| 390 | 10390007 | Leasehold Improvements* | 35,652 | 35,652 | 0% | - | - | 0.00 | - | 0.00% | 100.00% |
| Total General | | | 63,543,958 | 23,843,637 | | (12,701,661) | 52,401,982 | | 1,444,043 | | |
| Total Electric Utility | | | 6,250,827,334 | 1,667,449,165 | | (1,991,674,222) | 6,575,052,391 | | 154,042,413 | | |

* Rate if plant added to group

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

2017 Summary of Annual Depreciation Accruals
 Average Service Life

Utility Accounts

| FERC Account | Company Account | Account Description | Plant Balance 01/01/2017 | Depreciation Reserve 01/01/2017 | Est. Future Net Salvage % Amount | Unaccrued Balance | Remaining Life (Yrs) | Annual Accrual | Depr Rate | Reserve Ratio |
|--------------------------------------|-----------------|--|-----------------------------|------------------------------------|-------------------------------------|-------------------|-------------------------|----------------|-----------|---------------|
| Gas Utility | | | | | | | | | | |
| Transmission | | | | | | | | | | |
| 366 | 20366000 | Structures & Improvements | 1,130,639 | 631,260 | -5% (56,532) | 555,910 | 42.90 | 12,958 | 1.15% | 55.83% |
| 367 | 20367000 | Mains | 65,790,678 | 23,607,633 | -15% (9,868,602) | 52,051,647 | 60.44 | 861,239 | 1.31% | 35.88% |
| 369 | 20369000 | Measure & Regulating Station Equipment | 13,617,811 | 6,322,674 | -30% (4,085,343) | 11,380,481 | 31.13 | 365,544 | 2.68% | 46.43% |
| Total Transmission | | | 80,539,128 | 30,561,568 | (14,010,477) | 63,988,038 | | 1,239,741 | | |
| Distribution - Minnesota Only | | | | | | | | | | |
| 375 | 20375000 | Structures & Improvements | 727,864 | 78,795 | -5% (36,393) | 685,462 | 45.78 | 14,973 | 2.06% | 10.83% |
| 376 | 20376010 | Mains - Metallic | 135,069,020 | 47,649,540 | -25% (33,767,255) | 121,186,735 | 48.59 | 2,493,923 | 1.85% | 35.28% |
| 376 | 20376020 | Mains - Plastic | 384,394,656 | 138,702,955 | -20% (76,878,931) | 322,570,631 | 40.84 | 7,897,877 | 2.05% | 36.08% |
| 378 | 20378000 | Measure & Regulating Station Equipment - General | 22,768,672 | 4,523,719 | -25% (5,692,168) | 23,937,121 | 33.10 | 723,205 | 3.18% | 19.87% |
| 379 | 20379000 | Measure & Regulating Station Equipment - City Gate | 1,392,566 | 303,648 | -5% (69,628) | 1,158,546 | 31.61 | 36,656 | 2.63% | 21.80% |
| 380 | 20380010 | Services - Metallic | 12,590,915 | 11,375,605 | -40% (5,036,366) | 6,251,676 | 24.13 | 259,080 | 2.06% | 90.35% |
| 380 | 20380020 | Services - Plastic | 272,681,597 | 142,142,133 | -25% (68,170,399) | 198,709,863 | 25.82 | 7,695,540 | 2.82% | 52.13% |
| Total Distribution | | | 829,625,290 | 344,776,397 | (189,651,141) | 674,500,034 | | 19,121,255 | | |
| General | | | | | | | | | | |
| 390 | 20390000 | Structures & Improvements | 1,493,079 | 70,882 | -14% (209,031) | 1,631,228 | 46.31 | 35,226 | 2.36% | 4.75% |
| Total General | | | 1,493,079 | 70,882 | (209,031) | 1,631,228 | | 35,226 | | |
| Total Gas Utility | | | 911,657,497 | 375,408,846 | (203,870,649) | 740,119,300 | | 20,396,222 | | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

2017 Summary of Annual Depreciation Accruals

Average Service Life

Utility Accounts

| FERC Account | Company Account | Account Description | Plant Balance 01/01/2017 | Depreciation Reserve 01/01/2017 | Est. Future Net Salvage | | Unaccrued Balance | Remaining Life (Yrs) | Annual Accrual | Depr Rate | Reserve Ratio |
|--------------------------|-----------------|------------------------------------|-----------------------------|------------------------------------|-------------------------|-----------------|-------------------|----------------------|----------------|-----------|---------------|
| | | | | | % | Amount | | | | | |
| Common Utility | | | | | | | | | | | |
| General | | | | | | | | | | | |
| 390 | 40390000 | Structures & Improvements | 151,813,406 | 21,297,336 | -25% | (37,953,352) | 168,469,422 | 42.93 | 3,923,825 | 2.58% | 14.03% |
| 390 | 40390007 | Structures & Improvements - Leased | 18,509,449 | 1,409,381 | 0% | - | 17,100,068 | 9.04 | 1,891,324 | 10.22% | 7.61% |
| Total General | | | 170,322,855 | 22,706,717 | | (37,953,352) | 185,569,490 | | 5,815,149 | | |
| Total Common Utility | | | 170,322,855 | 22,706,717 | | (37,953,352) | 185,569,490 | | 5,815,149 | | |
| Total ASL- All Utilities | | | 7,332,807,686 | 2,065,564,727 | | (2,233,498,223) | 7,500,741,181 | | 180,253,784 | | |

Xcel Energy

Computation of Amortization Rate

Vintage Group

Electric Utility

| FERC Account | Company Account | Account Description | Plant Balance 01/01/2017 | Depreciation Reserve 01/01/2017 | Est. Future Net Salvage | | Unaccrued Balance | Remaining Life (Yrs) | Annual Accrual | Depr Rate | Reserve Ratio |
|--------------------------------------|-----------------|---------------------|-----------------------------|------------------------------------|-------------------------|--------------|-------------------|----------------------|----------------|-----------|---------------|
| | | | | | % | Amount | | | | | |
| Distribution - Minnesota Only | | | | | | | | | | | |
| 368 | 10368000 | Line Transformers | 372,629,100 | 171,239,942 | -5% | (18,631,455) | 220,020,612 | 18.27 | 12,045,571 | 3.23% | 45.95% |
| 368 | 10368010 | Line Capacitors | 15,188,563 | 8,150,381 | -7% | (1,063,199) | 8,101,381 | 12.71 | 637,473 | 4.20% | 53.66% |
| 370 | 10370000 | Meters | 54,362,948 | 24,702,877 | -5% | (2,718,147) | 32,378,218 | 8.64 | 3,749,220 | 6.90% | 45.44% |
| Total Electric Vintage Group | | | 442,180,610 | 204,093,201 | | (22,412,802) | 260,500,211 | | 16,432,264 | | |

Note: Electric Amortized Accounts exclude known change retirements which will occur when the age of the asset is greater than average service life.

Xcel Energy

Computation of Amortization Rate

Vintage Group

Gas Utility

| FERC Account | Company Account | Account Description | Plant Balance 01/01/2017 | Depreciation Reserve 01/01/2017 | Est. Future Net Salvage | | Unaccrued Balance | Remaining Life (Yrs) | Annual Accrual | Depr Rate | Reserve Ratio |
|-------------------------------------|-----------------|---------------------|-----------------------------|------------------------------------|-------------------------|-------------|-------------------|----------------------|----------------|-----------|---------------|
| | | | | | % | Amount | | | | | |
| Distribution- Minnesota Only | | | | | | | | | | | |
| 381 | 20381000 | Meters | 92,178,273 | 57,890,884 | -5% | (4,608,914) | 38,896,303 | 9.76 | 3,986,321 | 4.32% | 62.80% |
| 381 | 20381010 | Meters - Telemetry | - | - | 0% | - | - | NA | - | NA | NA |
| 383 | 20383000 | House Regulators | 10,070,258 | 10,170,961 | -1% | (100,703) | 0 | 2.00 | 0 | 0.00% | 101.00% |
| Total Gas Vintage Group | | | 102,248,532 | 68,061,845 | | (4,709,616) | 38,896,303 | | 3,986,321 | | |

Note: Gas Amortized Accounts exclude known change retirements which will occur when the age of the asset is greater than average service life.

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Computation of Amortization Amount
 For Amortized Property
 At January 1, 2017

Electric Utility

| FERC Account | Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Theoretical Reserve 01/01/2017 | Reserve Difference | Remaining Life | Amortize Reserve Difference |
|--------------|---|--------------------------|------------------------------|--------------------------------|--------------------|----------------|-----------------------------|
| Intangible | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 115,172,555 | 72,443,511 | 77,704,767 | (5,261,257) | 2.14 | 2,453,471 |
| | Total Intangible | 115,172,555 | 72,443,511 | 77,704,767 | (5,261,257) | | 2,453,471 |
| General | | | | | | | |
| 391 | Office Furniture & Equipment | 27,593,861 | 14,947,880 | 13,486,891 | 1,460,989 | 10.22 | (142,888) |
| 391 | Network Equipment | 32,398,061 | 11,957,884 | 10,809,106 | 1,148,778 | 4.00 | (287,324) |
| 392 | Transportation Equipment - Automobiles | 1,108,813 | 391,080 | 352,850 | 38,230 | 6.65 | (5,749) |
| 392 | Transportation Equipment - Light Trucks | 32,832,470 | 19,387,112 | 18,141,619 | 1,245,493 | 5.03 | (247,756) |
| 392 | Transportation Equipment - Trailers | 17,878,078 | 5,631,534 | 5,107,733 | 523,801 | 7.71 | (67,898) |
| 392 | Transportation Equipment - Heavy Trucks | 97,589,361 | 37,083,215 | 33,922,126 | 3,161,090 | 7.50 | (421,554) |
| 393 | Stores Equipment | 1,648,791 | 790,289 | 715,144 | 75,145 | 11.33 | (6,635) |
| 394 | Tools, Shop & Garage Equipment | 81,301,137 | 33,694,832 | 30,556,536 | 3,138,296 | 9.38 | (334,430) |
| 395 | Laboratory Equipment | 3,209,733 | 1,630,248 | 1,487,920 | 142,328 | 5.36 | (26,532) |
| 396 | Power Operated Equipment | 45,134,817 | 15,825,286 | 14,318,885 | 1,506,401 | 7.52 | (200,287) |
| 397 | Communication Equipment | 17,117,461 | 11,636,242 | 10,799,860 | 836,381 | 3.73 | (224,517) |
| 397 | Communication Equipment - Two Way | 6,532,362 | 669,209 | 603,791 | 65,418 | 9.08 | (7,208) |
| 397 | Communication Equipment - AES | 7,071,726 | 3,976,600 | 3,587,868 | 388,732 | 7.39 | (52,605) |
| 397 | Communication Equipment - EMS | 47,275,858 | 8,169,456 | 7,370,853 | 798,604 | 12.66 | (63,074) |
| 398 | Miscellaneous Equipment | 2,723,841 | 2,211,897 | 2,004,226 | 207,671 | 4.06 | (51,122) |
| | Total General | 421,416,370 | 168,002,764 | 153,265,408 | 14,737,356 | | (2,139,579) |
| | Total Electric Intangible and General | 536,588,924 | 240,446,274 | 230,970,175 | 9,476,099 | | 313,892 |

Excluding Fully Accrued Assets

| FERC Account | Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Amortization Life | Net Salvage % | Annual Amortization | Accrual For Reserve Difference | Total Amortization | Amortization Rate |
|--------------|---|--------------------------|------------------------------|-------------------|---------------|---------------------|--------------------------------|--------------------|-------------------|
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 87,361,384 | 44,632,341 | 5.00 | 0.00% | 17,472,277 | 2,453,471 | 19,925,748 | 22.81% |
| | Total Intangible | 87,361,384 | 44,632,341 | | | 17,472,277 | 2,453,471 | 19,925,748 | |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 27,593,861 | 14,947,880 | 20.00 | 0.00% | 1,379,693 | (142,888) | 1,236,805 | 4.48% |
| 391 | Network Equipment | 32,398,061 | 11,957,884 | 6.00 | 0.00% | 5,399,677 | (287,324) | 5,112,352 | 15.78% |
| 392 | Transportation Equipment - Automobiles | 1,108,813 | 391,080 | 10.00 | 5.00% | 105,337 | (5,749) | 99,589 | 8.98% |
| 392 | Transportation Equipment - Light Trucks | 26,592,763 | 13,147,406 | 10.00 | 10.00% | 2,393,349 | (247,756) | 2,145,592 | 8.07% |
| 392 | Transportation Equipment - Trailers | 17,878,078 | 5,631,534 | 12.00 | 20.00% | 1,191,872 | (67,898) | 1,123,974 | 6.29% |
| 392 | Transportation Equipment - Heavy Trucks | 93,469,576 | 32,963,431 | 12.00 | 15.00% | 6,620,762 | (421,554) | 6,199,207 | 6.63% |
| 393 | Stores Equipment | 1,648,791 | 790,289 | 20.00 | 0.00% | 82,440 | (6,635) | 75,804 | 4.60% |
| 394 | Tools, Shop & Garage Equipment | 81,113,250 | 33,506,944 | 15.00 | 0.00% | 5,407,550 | (334,430) | 5,073,120 | 6.25% |
| 395 | Laboratory Equipment | 3,209,733 | 1,630,248 | 10.00 | 0.00% | 320,973 | (26,532) | 294,441 | 9.17% |
| 396 | Power Operated Equipment | 45,134,817 | 15,825,286 | 12.00 | 15.00% | 3,197,050 | (200,287) | 2,996,763 | 6.64% |
| 397 | Communication Equipment | 16,958,859 | 11,477,639 | 10.00 | 0.00% | 1,695,886 | (224,517) | 1,471,369 | 8.68% |
| 397 | Communication Equipment - Two Way | 6,532,362 | 669,209 | 10.00 | 0.00% | 653,236 | (7,208) | 646,028 | 9.89% |
| 397 | Communication Equipment - AES | 7,071,726 | 3,976,600 | 15.00 | 0.00% | 471,448 | (52,605) | 418,844 | 5.92% |
| 397 | Communication Equipment - EMS | 47,275,858 | 8,169,456 | 15.00 | 0.00% | 3,151,724 | (63,074) | 3,088,650 | 6.53% |
| 398 | Miscellaneous Equipment | 2,657,198 | 2,145,253 | 15.00 | 0.00% | 177,147 | (51,122) | 126,025 | 4.74% |
| | Total General | 410,643,745 | 157,230,139 | | | 32,248,143 | (2,139,579) | 30,108,564 | |
| | Total Electric Intangible & General | 498,005,130 | 201,862,480 | | | 49,720,419 | 313,892 | 50,034,312 | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Gas Utility

| FERC Account | Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Theoretical Reserve 01/01/2017 | Reserve Difference | Remaining Life | Amortize Reserve Difference |
|--------------|---|-----------------------------|---------------------------------|-----------------------------------|--------------------|----------------|-----------------------------|
| Intangible | | | | | | | |
| 303 | Intangible Computer Software - 10 Year | 7,256,644 | 5,122,739 | 5,090,801 | 31,937.94 | 2.58 | (12,369) |
| 303 | Intangible Computer Software - 5 Year | 234,274 | 85,975 | 81,996 | 3,978.61 | 6.50 | (612) |
| | Total Intangible | 7,490,919 | 5,208,713 | 5,172,797 | 35,917 | | (12,981) |
| General | | | | | | | |
| 391 | Office Furniture & Equipment | 906,378 | 467,586 | 299,696 | 167,890 | 13.39 | (12,541) |
| 391 | Network Equipment | 38,023 | 25,279 | 15,843 | 9,436 | 3.50 | (2,696) |
| 392 | Transportation Equipment - Automobiles | 376,943 | 67,568 | 42,346 | 25,222 | 8.82 | (2,860) |
| 392 | Transportation Equipment - Light Trucks | 6,054,537 | 3,889,243 | 2,961,227 | 928,016 | 5.49 | (169,051) |
| 392 | Transportation Equipment - Trailers | 1,504,110 | 753,603 | 550,626 | 202,977 | 6.84 | (29,686) |
| 392 | Transportation Equipment - Heavy Trucks | 8,425,887 | 5,125,059 | 3,787,150 | 1,337,909 | 6.39 | (209,494) |
| 393 | Stores Equipment | 10,091 | 4,428 | 2,775 | 1,653 | 14.50 | (114) |
| 394 | Tools, Shop & Garage Equipment | 6,257,777 | 2,797,083 | 1,878,476 | 918,606 | 10.40 | (88,335) |
| 396 | Power Operated Equipment | 2,858,219 | 946,052 | 622,370 | 323,682 | 8.93 | (36,263) |
| 397 | Communication Equipment | 4,722,283 | 4,554,658 | 3,635,958 | 918,700 | 2.30 | (399,361) |
| 397 | Communication Equipment - Two Way | 120,072 | 15,970 | 10,009 | 5,961 | 9.17 | (650) |
| 397 | Communication Equipment - AES | 15,492,768 | 6,555,265 | 4,108,288 | 2,446,977 | 11.02 | (222,001) |
| 397 | Communication Equipment - EMS | 764,413 | 356,090 | 223,167 | 132,923 | 10.62 | (12,515) |
| 398 | Miscellaneous Equipment | 50,705 | 42,589 | 33,509 | 9,080 | 5.09 | (1,785) |
| | Total General | 47,582,206 | 25,600,471 | 18,171,440 | 7,429,031 | | (1,187,353) |
| | Total Gas Intangible & General | 55,073,125 | 30,809,184 | 23,344,237 | 7,464,947 | | (1,200,334) |

Excluding Fully Accrued Assets

| FERC Account | Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Amortization Life | Net Salvage % | Annual Amortization | Accrual For Reserve Difference | Total Amortization | Amortization Rate |
|--------------|---|-----------------------------|---------------------------------|-------------------|---------------|---------------------|--------------------------------|--------------------|-------------------|
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 4,194,027 | 2,060,121 | 5 | 0 | 838,805 | (12,369) | 826,436 | 19.71% |
| 303 | Intangible Computer Software - 10 Year | 234,274 | 81,996 | 10 | 0 | 23,427 | (612) | 22,815 | 9.74% |
| | Total Intangible | 4,428,301 | 2,142,117 | | | 862,233 | (12,981) | 849,251 | |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 906,378 | 468,787 | 20 | 0.00% | 45,319 | (12,541) | 32,778 | 3.62% |
| 391 | Network Equipment | 38,023 | 25,348 | 6 | 0.00% | 6,337 | (2,696) | 3,641 | 9.58% |
| 392 | Transportation Equipment - Automobiles | 376,943 | 67,753 | 10 | 5.00% | 35,810 | (2,860) | 32,949 | 8.74% |
| 392 | Transportation Equipment - Light Trucks | 5,207,054 | 3,044,907 | 10 | 10.00% | 468,635 | (169,051) | 299,584 | 5.75% |
| 392 | Transportation Equipment - Trailers | 1,453,858 | 704,544 | 12 | 20.00% | 96,924 | (29,686) | 67,238 | 4.62% |
| 392 | Transportation Equipment - Heavy Trucks | 7,700,813 | 4,406,250 | 12 | 15.00% | 545,474 | (209,494) | 335,981 | 4.36% |
| 393 | Stores Equipment | 10,091 | 4,440 | 20 | 0.00% | 505 | (114) | 391 | 3.87% |
| 394 | Tools, Shop & Garage Equipment | 6,316,850 | 2,861,461 | 15 | 0.00% | 421,123 | (88,335) | 332,788 | 5.27% |
| 396 | Power Operated Equipment | 2,858,219 | 947,870 | 12 | 15.00% | 202,457 | (36,263) | 166,194 | 5.81% |
| 397 | Communication Equipment | 4,722,283 | 4,556,223 | 10 | 0.00% | 472,228 | (399,361) | 72,867 | 1.54% |
| 397 | Communication Equipment - Two Way | 120,072 | 16,014 | 10 | 0.00% | 12,007 | (650) | 11,357 | 9.46% |
| 397 | Communication Equipment - AES | 15,492,768 | 6,573,194 | 15 | 0.00% | 1,032,851 | (222,001) | 810,850 | 5.23% |
| 397 | Communication Equipment - EMS | 764,413 | 357,064 | 15 | 0.00% | 50,961 | (12,515) | 38,446 | 5.03% |
| 398 | Miscellaneous Equipment | 50,705 | 2,878 | 15 | 0.00% | 3,380 | (1,785) | 1,596 | 3.15% |
| | Total General | 46,018,470 | 24,036,734 | | | 3,394,012 | (1,187,353) | 2,206,659 | |
| | Total Gas Intangible & General | 50,446,771 | 26,178,851 | | | 4,256,244 | (1,200,334) | 3,055,910 | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Common Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Theoretical Reserve 01/01/2017 | Reserve Difference | Remaining Life | Amortize Reserve Difference |
|--------------|---|--------------------------|------------------------------|--------------------------------|--------------------|----------------|-----------------------------|
| Intangible | | | | | | | |
| 303 | Intangible Computer Software - 3 Year | 7,673,530 | 7,673,530 | 7,673,530 | 0 | 0.00 | 0 |
| 303 | Intangible Computer Software - 5 Year | 197,541,349 | 133,587,921 | 137,960,011 | (4,372,090) | 2.70 | 1,617,774 |
| 303 | Intangible Computer Software - 7 Year | 44,140,612 | 44,140,612 | 44,140,612 | 0 | 0.00 | 0 |
| 303 | Intangible Computer Software - 10 Year | 68,449,240 | 61,860,387 | 62,199,795 | (339,408) | 6.14 | 55,296 |
| 303 | Intangible Computer Software - 15 Year | 61,015,418 | 3,523,252 | 3,856,103 | (332,851) | 14.05 | 23,687 |
| | Total Intangible | 378,820,150 | 250,785,703 | 255,830,052 | (5,044,349) | | 1,696,756 |
| General | | | | | | | |
| 391 | Office Furniture & Equipment | 27,141,560 | 15,321,726 | 14,505,093 | 816,633 | 10.44 | (78,237) |
| 391 | Network Equipment | 100,446,164 | 46,842,989 | 43,560,690 | 3,282,299 | 2.83 | (1,159,189) |
| 392 | Transportation Equipment - Automobiles | 823,465 | 290,391 | 270,044 | 20,346 | 6.55 | (3,107) |
| 392 | Transportation Equipment - Light Trucks | 3,431,469 | 1,949,727 | 1,924,358 | 25,369 | 3.81 | (6,667) |
| 392 | Transportation Equipment - Trailers | 1,099,687 | 661,080 | 622,073 | 39,008 | 4.20 | (9,292) |
| 392 | Transportation Equipment - Heavy Trucks | 5,505,442 | 3,756,624 | 3,612,498 | 144,126 | 4.17 | (34,598) |
| 393 | Stores Equipment | 246,162 | 44,140 | 41,047 | 3,093 | 16.67 | (186) |
| 394 | Tools, Shop & Garage Equipment | 4,041,708 | 1,492,666 | 1,389,262 | 103,404 | 9.87 | (10,476) |
| 395 | Laboratory Equipment | 0 | 0 | 0 | 0 | 0.00 | 0 |
| 396 | Power Operated Equipment | 990,912 | 565,370 | 545,459 | 19,912 | 6.74 | (2,953) |
| 397 | Communication Equipment | 964,432 | 831,102 | 790,286 | 40,815 | 2.43 | (16,778) |
| 397 | Communication Equipment - Two Way | 75,068 | 4,036 | 3,753 | 283 | 9.50 | (30) |
| 398 | Miscellaneous Equipment | 582,227 | 420,760 | 400,574 | 20,186 | 4.68 | (4,313) |
| | Total General | 145,348,298 | 72,180,609 | 67,665,137 | 4,515,473 | | (1,325,825) |
| | Total Common Intangible & General | 524,168,448 | 322,966,313 | 323,495,189 | (528,876) | | 370,931 |

Common Utility

Excluding Fully Accrued Assets

| FERC Account | Description | Plant Balance 01/01/2017 | Allocated Reserve 01/01/2017 | Amortization Life | Net Salvage % | Annual Amortization | Accrual For Reserve Difference | Total Amortization | Amortization Rate |
|--------------------------------|---|--------------------------|------------------------------|-------------------|---------------|---------------------|--------------------------------|--------------------|-------------------|
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 3 Year | 0 | 0 | 3.00 | 0.00% | 0 | 0 | 0 | 33.33% (2) |
| 303 | Intangible Computer Software - 5 Year | 110,232,298 | 46,278,871 | 5.00 | 0.00% | 22,046,460 | 1,617,774 | 23,664,233 | 21.47% |
| 303 | Intangible Computer Software - 7 Year | 0 | 0 | 7.00 | 0.00% | 0 | 0 | 0 | 14.29% (2) |
| 303 | Intangible Computer Software - 10 Year | 10,181,505 | 3,592,653 | 10.00 | 0.00% | 1,018,150 | 55,296 | 1,073,446 | 10.54% |
| 303 | Intangible Computer Software - 15 Year | 61,015,418 | 3,523,252 | 15.00 | 0.00% | 4,067,695 | 23,687 | 4,091,382 | 6.71% |
| | Total Intangible | 181,429,222 | 53,394,775 | | | 27,132,305 | 1,696,756 | 28,829,061 | |
| (2) Rate if new plant is added | | | | | | | | | |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 24,212,478 | 12,392,643 | 20 | 0.00% | 1,210,624 | (78,237) | 1,132,387 | 4.68% |
| 391 | Network Equipment | 100,449,425 | 46,846,249 | 5 | 0.00% | 20,089,885 | (1,159,189) | 18,930,696 | 18.85% |
| 392 | Transportation Equipment - Automobiles | 823,465 | 290,391 | 10 | 5.00% | 78,229 | (3,107) | 75,122 | 9.12% |
| 392 | Transportation Equipment - Light Trucks | 3,406,217 | 1,924,475 | 10 | 10.00% | 306,560 | (6,667) | 299,892 | 8.80% |
| 392 | Transportation Equipment - Trailers | 995,338 | 556,732 | 12 | 20.00% | 66,356 | (9,292) | 57,063 | 5.73% |
| 392 | Transportation Equipment - Heavy Trucks | 4,253,089 | 2,504,271 | 12 | 15.00% | 301,260 | (34,598) | 266,663 | 6.27% |
| 393 | Stores Equipment | 246,162 | 44,140 | 20 | 0.00% | 12,308 | (186) | 12,123 | 4.92% |
| 394 | Tools, Shop & Garage Equipment | 4,030,816 | 1,481,774 | 15 | 0.00% | 268,721 | (10,476) | 258,245 | 6.41% |
| 395 | Laboratory Equipment | 0 | 0 | 10 | 0.00% | 0 | 0 | 0 | 10.00% |
| 396 | Power Operated Equipment | 709,729 | 284,187 | 12 | 15.00% | 50,272 | (2,953) | 47,320 | 6.67% |
| 397 | Communication Equipment | 715,864 | 582,533 | 10 | 0.00% | 71,586 | (16,778) | 54,808 | 7.66% |
| 397 | Communication Equipment - Two Way | 75,068 | 4,036 | 10 | 0.00% | 7,507 | (30) | 7,477 | 9.96% |
| 398 | Miscellaneous Equipment | 582,227 | 420,760 | 15 | 0.00% | 38,815 | (4,313) | 34,502 | 5.93% |
| | Total General | 140,499,879 | 67,332,190 | | | 22,502,124 | (1,325,825) | 21,176,299 | |
| | Total Common Intangible & General | 321,929,101 | 120,726,966 | | | 49,634,429 | 370,931 | 50,005,360 | |

APPENDIX B
Depreciation Expense Comparison

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Accruals
 Average Service Life

Electric Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|-------------------------------|----------------------------------|--------------------------|---------------|-----------------------------------|-------------|--------------------|-------------|--------------------|-------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| Transmission | | | | | | | | | |
| 352 | Structures & Improvements | 103,086,366 | | 103,086,366 | 1.47 | 1,515,976 | 1.51% | 1,556,604 | 40,628 |
| 353 | Station Equipment | 1,181,449,210 | | 1,181,449,210 | 1.96 | 23,207,038 | 2.07% | 24,455,999 | 1,248,961 |
| 354 | Towers & Fixtures | 118,631,858 | | 118,631,858 | 1.93 | 2,287,900 | 1.85% | 2,194,689 | (93,211) |
| 355 | Poles & Fixtures | 1,330,556,061 | | 1,330,556,061 | 2.18 | 28,971,785 | 2.43% | 32,332,512 | 3,360,727 |
| 356 | Overhead Conductor & Devices | 532,704,102 | | 532,704,102 | 2.06 | 10,992,307 | 2.03% | 10,813,893 | (178,414) |
| 357 | Underground Conduit | 25,910,138 | | 25,910,138 | 1.37 | 354,933 | 1.38% | 357,560 | 2,627 |
| 358 | Underground Conductor & Devices | 30,710,573 | | 30,710,573 | 1.82 | 558,374 | 2.12% | 651,064 | 92,690 |
| | Total Transmission | 3,323,048,309 | | 3,323,048,309 | | 67,888,314 | | 72,362,322 | 4,474,008 |
| Distribution - Minnesota Only | | | | | | | | | |
| 361 | Structures & Improvements | 43,721,596 | | 43,721,596 | 2.17 | 947,301 | 2.07% | 905,037 | (42,264) |
| 362 | Station Equipment | 552,978,032 | | 552,978,032 | 2.18 | 12,064,975 | 2.37% | 13,105,579 | 1,040,604 |
| 364 | Poles, Towers & Fixtures | 343,536,905 | | 343,536,905 | 4.55 | 15,615,314 | 4.69% | 16,111,881 | 496,567 |
| 365 | Overhead Conductor & Devices | 373,235,852 | | 373,235,852 | 3.08 | 11,484,180 | 3.21% | 11,980,871 | 496,691 |
| 366 | Underground Conduit | 261,312,548 | | 261,312,548 | 2.12 | 5,527,765 | 2.15% | 5,618,220 | 90,454 |
| 367 | Underground Conductor & Devices | 967,850,933 | | 967,850,933 | 2.22 | 21,507,799 | 2.25% | 21,776,646 | 268,847 |
| 369 | Services - Overhead | 71,641,753 | | 71,641,753 | 4.25 | 3,044,774 | 4.43% | 3,173,730 | 128,955 |
| 369 | Services - Underground | 185,773,119 | | 185,773,119 | 2.56 | 4,757,604 | 2.40% | 4,458,555 | (299,049) |
| 373 | Street Lighting & Signal Systems | 64,184,329 | | 64,184,329 | 4.66 | 2,987,891 | 4.84% | 3,106,522 | 118,630 |
| | Total Distribution | 2,864,235,067 | | 2,864,235,067 | | 77,937,604 | | 80,237,040 | 2,299,436 |
| General | | | | | | | | | |
| 390 | Structures & Improvements | 63,508,306 | | 63,508,306 | 2.11 | 1,337,017 | 2.27% | 1,441,639 | 104,622 |
| 390 | Leasehold Improvements | 35,652 | | 35,652 | 10.00 | 3,565 | 10.00% | 3,565 | - |
| | Total General | 63,543,958 | | 63,543,958 | | 1,340,582 | | 1,445,204 | 104,622 |
| | Total Electric Utility | 6,250,827,334 | | 6,250,827,334 | | 147,166,500 | | 154,044,565 | 6,878,065 |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Accruals
 Average Service Life
Gas Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|-------------------------------|--|-----------------------------|------------------|---|-------------|----------------|-------------|----------------|----------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| Transmission | | | | | | | | | |
| 366 | Structures & Improvements | 1,130,639 | | 1,130,639 | 2.02 | 22,830 | 1.15% | 13,002 | (9,828) |
| 367 | Mains | 65,790,678 | | 65,790,678 | 1.53 | 1,008,790 | 1.31% | 861,858 | (146,933) |
| 369 | Measure & Regulating Station Equipment | 13,617,811 | | 13,617,811 | 3.94 | 536,459 | 2.68% | 364,957 | (171,502) |
| | Total Transmission | 80,539,128 | | 80,539,128 | | 1,568,080 | | 1,239,818 | (328,262) |
| Distribution - Minnesota Only | | | | | | | | | |
| 375 | Structures & Improvements | 727,864 | | 727,864 | 2.44 | 17,753 | 2.06% | 14,994 | (2,759) |
| 376 | Mains - Metallic | 135,069,020 | | 135,069,020 | 2.35 | 3,178,095 | 1.85% | 2,498,777 | (679,318) |
| 376 | Mains - Plastic | 384,394,656 | | 384,394,656 | 2.56 | 9,823,419 | 2.05% | 7,880,090 | (1,943,329) |
| 378 | Measure & Regulating Station Equipment - General | 22,768,672 | | 22,768,672 | 3.29 | 748,969 | 3.18% | 724,044 | (24,926) |
| 379 | Measure & Regulating Station Equipment - City Gate | 1,392,566 | | 1,392,566 | 2.68 | 37,379 | 2.63% | 36,624 | (755) |
| 380 | Services - Metallic | 12,590,915 | | 12,590,915 | 3.50 | 440,682 | 2.06% | 259,373 | (181,309) |
| 380 | Services - Plastic | 272,681,597 | | 272,681,597 | 3.33 | 9,089,387 | 2.82% | 7,689,621 | (1,399,766) |
| | Total Distribution | 829,625,290 | | 829,625,290 | | 23,335,684 | | 19,103,523 | (4,232,160) |
| General | | | | | | | | | |
| 390 | Structures & Improvements | 1,493,079 | | 1,493,079 | 2.18 | 32,576 | 2.36% | 35,237 | 2,660 |
| | Total General | 1,493,079 | | 1,493,079 | | 32,576 | | 35,237 | 2,660 |
| | Total Gas Utility | 911,657,497 | | 911,657,497 | | 24,936,340 | | 20,378,578 | (4,557,762) |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy
 Comparison of Present and Proposed Accruals
 Average Service Life
Common Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|--|-------------------------|-----------------------------|------------------|---|-------------|--------------------|-------------|--------------------|----------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| General | | | | | | | | | |
| 390 Structures & Improvements | | 151,813,406 | | 151,813,406 | 2.18 | 3,312,292 | 2.58% | 3,916,786 | 604,493 |
| 390 Structures & Improvements - Leased | | 18,509,449 | | 18,509,449 | 10.00 | 1,850,945 | 10.22% | 1,891,666 | 40,721 |
| | Total General | <u>170,322,855</u> | | <u>170,322,855</u> | | <u>5,163,237</u> | | <u>5,808,452</u> | <u>645,214</u> |
| | Total Common Utility | <u>170,322,855</u> | | <u>170,322,855</u> | | <u>5,163,237</u> | | <u>5,808,452</u> | <u>645,214</u> |
| | Total ASL All Utilities | <u>7,332,807,686</u> | | <u>7,332,807,686</u> | | <u>177,266,077</u> | | <u>180,231,595</u> | <u>2,965,517</u> |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Accruals
 Vintage Group
Electric Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|--|---|-------------------------------------|--------------------------|--|-------------|-------------------|-------------|-------------------|----------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 115,172,555 | 27,811,170 | 87,361,385 | 20.00 | 17,472,277 | 22.81% | 19,927,132 | 2,454,855 |
| | Total Intangible | 115,172,555 | 27,811,170 | 87,361,385 | | 17,472,277 | | 19,927,132 | 2,454,855 |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 27,593,861 | - | 27,593,861 | 5.00 | 1,379,693 | 4.48% | 1,236,205 | (143,488) |
| 391 | Network Equipment | 32,398,061 | - | 32,398,061 | 25.00 | 8,099,515 | 15.78% | 5,112,414 | (2,987,101) |
| 392 | Transportation Equipment - Automobiles | 1,108,813 | - | 1,108,813 | 10.00 | 110,881 | 8.98% | 99,571 | (11,310) |
| 392 | Transportation Equipment - Light Trucks | 32,832,470 | 6,239,706 | 26,592,763 | 8.33 | 2,216,064 | 8.07% | 2,146,036 | (70,028) |
| 392 | Transportation Equipment - Trailers | 17,878,078 | - | 17,878,078 | 6.67 | 1,191,872 | 6.29% | 1,124,531 | (67,341) |
| 392 | Transportation Equipment - Heavy Trucks | 97,589,361 | 4,119,785 | 93,469,576 | 7.14 | 6,676,398 | 6.63% | 6,197,033 | (479,365) |
| 393 | Stores Equipment | 1,648,791 | - | 1,648,791 | 5.00 | 82,440 | 4.60% | 75,844 | (6,595) |
| 394 | Tools, Shop & Garage Equipment | 81,301,137 | 187,888 | 81,113,250 | 6.67 | 5,407,550 | 6.25% | 5,069,578 | (337,972) |
| 395 | Laboratory Equipment | 3,209,733 | - | 3,209,733 | 10.00 | 320,973 | 9.17% | 294,333 | (26,641) |
| 396 | Power Operated Equipment | 45,134,817 | - | 45,134,817 | 8.33 | 3,761,235 | 6.64% | 2,996,952 | (764,283) |
| 397 | Communication Equipment | 17,117,461.30 | 158,602 | 16,958,859 | 11.11 | 1,884,318 | 8.68% | 1,472,029 | (412,289) |
| | | 6,532,362.47 | - | 6,532,362 | 11.11 | 725,818 | 9.89% | 646,051 | (79,767) |
| 397 | Communication Equipment - AES | 7,071,725.74 | - | 7,071,726 | 6.67 | 471,448 | 5.92% | 418,646 | (52,802) |
| 397 | Communication Equipment - EMS | 47,275,857.53 | - | 47,275,858 | 6.67 | 3,151,724 | 6.53% | 3,087,113 | (64,610) |
| 398 | Miscellaneous Equipment | 2,723,841 | 66,643 | 2,657,198 | 6.67 | 177,147 | 4.74% | 125,951 | (51,195) |
| | Total General | 421,416,370 | 10,772,624 | 410,643,745 | | 35,657,075 | | 30,102,288 | (5,554,788) |
| Distribution - Minnesota Only (Vintage Group Treatment) | | | | | | | | | |
| | | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | | | | | |
| 368 | Line Transformers | 372,629,100 | 0.00 | 372,629,100 | 3.28 | 12,226,892 | 3.23% | 12,035,920 | (190,972) |
| 368 | Line Capacitors | 18,759,258 | 3,570,694.95 | 15,188,563 | 4.40 | 668,297 | 4.20% | 637,920 | (30,377) |
| 370 | Meters | 96,316,591 | 41,953,643 | 54,362,948 | 6.67 | 3,624,197 | 6.90% | 3,751,043 | 126,847 |
| | Total Distribution | 487,704,949 | 45,524,338 | 442,180,610 | | 16,519,386 | | 16,424,883 | (94,503) |
| | Total Electric Utility | 1,024,293,873 | 84,108,133 | 940,185,740 | | 69,648,738 | | 66,454,302 | (3,194,435) |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Accruals

Vintage Group

Gas Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|--|---|-----------------------------|-------------------|---|-------------|------------------|-------------|------------------|----------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 7,256,644 | 3,062,618 | 4,194,027 | 20.00 | 838,805 | 19.71% | 826,643 | (12,163) |
| 303 | Intangible Computer Software - 10 Year | 234,274 | - | 234,274 | 10.00 | 23,427 | 9.74% | 22,818 | (609) |
| | Total Intangible | 7,490,919 | 3,062,618 | 4,428,301 | | 862,233 | | 849,461 | (12,772) |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 906,378 | - | 906,378 | 5.00 | 45,319 | 3.62% | 32,811 | (12,508) |
| 391 | Network Equipment | 38,023 | - | 38,023 | 25.00 | 9,506 | 9.58% | 3,643 | (5,863) |
| 392 | Transportation Equipment - Automobiles | 376,943 | - | 376,943 | 10.00 | 37,694 | 8.74% | 32,945 | (4,749) |
| 392 | Transportation Equipment - Light Trucks | 6,054,537 | 847,483 | 5,207,054 | 8.33 | 433,921 | 5.75% | 299,406 | (134,516) |
| 392 | Transportation Equipment - Trailers | 1,504,110 | 50,252 | 1,453,858 | 6.67 | 96,924 | 4.62% | 67,168 | (29,756) |
| 392 | Transportation Equipment - Heavy Trucks | 8,425,887 | 725,075 | 7,700,813 | 7.14 | 550,058 | 4.36% | 335,755 | (214,303) |
| 393 | Stores Equipment | 10,091 | - | 10,091 | 5.00 | 505 | 3.87% | 391 | (114) |
| 394 | Tools, Shop & Garage Equipment | 6,257,777 | (59,073) | 6,316,850 | 6.67 | 421,123 | 5.27% | 332,898 | (88,225) |
| 396 | Laboratory Equipment | 2,858,219 | - | 2,858,219 | 8.33 | 238,185 | 5.81% | 166,062 | (72,122) |
| 397 | Communication Equipment | 4,722,283 | - | 4,722,283 | 11.11 | 524,698 | 1.54% | 72,723 | (451,975) |
| 397 | Communication Equipment - Two Way | 120,072 | - | 120,072 | 11.11 | 13,341 | 9.46% | 11,359 | (1,983) |
| 397 | Communication Equipment - AES | 15,492,768 | - | 15,492,768 | 6.67 | 1,032,851 | 5.23% | 810,272 | (222,579) |
| 397 | Communication Equipment - EMS | 764,413 | - | 764,413 | 6.67 | 50,961 | 5.03% | 38,450 | (12,511) |
| 398 | Miscellaneous Equipment | 50,705 | - | 50,705 | 6.67 | 3,380 | 3.15% | 1,597 | (1,783) |
| | Total General | 47,582,206 | 1,563,737 | 46,018,470 | | 3,458,467 | | 2,205,480 | (1,252,987) |
| Distribution - Minnesota Only (Vintage Group Treatment) | | | | | | | | | |
| 381 | Meters | 105,068,640 | 12,890,367 | 92,178,273 | 5.15 | 4,747,181 | 4.32% | 3,982,101 | (765,080) |
| 381 | Meters - Telemetering | 36,778 | 36,778 | - | 12.50 | - | 12.50% | - | - |
| 383 | House Regulators | 10,070,258 | - | 10,070,258 | 5.00 | - | 0.00% | - | - |
| | Total Distribution | 115,175,677 | 12,927,145 | 102,248,532 | | 4,747,181 | | 3,982,101 | (765,080) |
| | Total Gas Utility | 170,248,802 | 17,553,499 | 152,695,302 | | 9,067,880 | | 7,037,042 | (2,030,839) |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Accruals
 Vintage Group
Common Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Adjusted Plant Balance 01/01/2017 | Present | | Proposed | | Proposed Less Present Accrual |
|--------------|--|-----------------------------|--------------------|---|-------------|--------------------|-------------|--------------------|----------------------------------|
| | | | | | Annual Rate | Annual Accrual | Annual Rate | Annual Accrual | |
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 3 Year | 7,673,530 | 7,673,530 | - | 33.33 | - | 33.33% | - | - |
| 303 | Intangible Computer Software - 5 Year | 197,541,349 | 87,309,050 | 110,232,298 | 20.00 | 22,046,460 | 21.47% | 23,666,874 | 1,620,415 |
| 303 | Intangible Computer Software - 7 Year | 44,140,612 | 44,140,612 | - | 14.29 | - | 14.29% | - | - |
| 303 | Intangible Computer Software - 10 Year | 68,449,240 | 58,267,735 | 10,181,505 | 10.00 | 1,018,150 | 10.54% | 1,073,131 | 54,980 |
| 303 | Intangible Computer Software - 15 Year | 61,015,418 | - | 61,015,418 | 6.67 | 4,067,695 | 6.71% | 4,094,135 | 26,440 |
| | Total Intangible | 378,820,150 | 197,390,928 | 181,429,222 | | 27,132,305 | | 28,834,140 | 1,701,835 |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 27,141,560 | 2,929,083 | 24,212,478 | 5.00 | 1,210,624 | 4.68% | 1,133,144 | (77,480) |
| 391 | Network Equipment | 100,446,164 | (3,261) | 100,449,425 | 25.00 | 25,112,356 | 18.85% | 18,934,717 | (6,177,640) |
| 392 | Transportation Equipment - Automobiles | 823,465 | - | 823,465 | 10.00 | 82,347 | 9.12% | 75,100 | (7,246) |
| 392 | Transportation Equipment - Light Trucks | 3,431,469 | 25,252 | 3,406,217 | 8.33 | 283,851 | 8.80% | 299,747 | 15,896 |
| 392 | Transportation Equipment - Trailers | 1,099,687 | 104,349 | 995,338 | 6.67 | 66,356 | 5.73% | 57,033 | (9,323) |
| 392 | Transportation Equipment - Heavy Trucks | 5,505,442 | 1,252,353 | 4,253,089 | 7.14 | 303,792 | 6.27% | 266,669 | (37,123) |
| 393 | Stores Equipment | 246,162 | - | 246,162 | 5.00 | 12,308 | 4.92% | 12,111 | (197) |
| 394 | Tools, Shop & Garage Equipment | 4,041,708 | 10,892 | 4,030,816 | 6.67 | 268,721 | 6.41% | 258,375 | (10,346) |
| 395 | Laboratory Equipment | - | - | - | 10.00 | - | 10.00% | - | - |
| 396 | Power Operated Equipment | 990,912 | 281,183 | 709,729 | 8.33 | 59,144 | 6.67% | 47,339 | (11,805) |
| 397 | Communication Equipment | 964,432 | 248,569 | 715,864 | 11.11 | 79,540 | 7.66% | 54,835 | (24,705) |
| 397 | Communication Equipment - Two Way | 75,068 | - | 75,068 | 11.11 | 8,341 | 9.96% | 7,477 | (864) |
| 398 | Miscellaneous Equipment | 582,227 | - | 582,227 | 6.67 | 38,815 | 5.93% | 34,526 | (4,289) |
| | Total General | 145,348,298 | 4,848,419 | 140,499,879 | | 27,526,196 | | 21,181,073 | (6,345,123) |
| | Total Common Utility | 524,168,448 | 202,239,347 | 321,929,101 | | 54,658,501 | | 50,015,212 | (4,643,288) |
| | Total Vintage All Utilities | 1,718,711,122 | 303,900,979 | 1,414,810,143 | | 133,375,119 | | 123,506,557 | (9,868,562) |
| | Total ASL and Vintage All Utilities | 9,051,518,808 | 303,900,979 | 8,747,617,828 | | 310,641,196 | | 303,738,151 | (6,903,045) |
| | Total Electric Utility | 7,275,121,206 | 84,108,133 | 7,191,013,073 | | 216,815,238 | | 220,498,868 | 3,683,630 |
| | Total Gas Utility | 1,081,906,298 | 17,553,499 | 1,064,352,799 | | 34,004,220 | | 27,415,620 | (6,588,601) |
| | Total Common Utility | 694,491,303 | 202,239,347 | 492,251,956 | | 59,821,738 | | 55,823,664 | (3,998,074) |
| | Total ASL and Vintage All Utilities | 9,051,518,808 | 303,900,979 | 8,747,617,828 | | 310,641,196 | | 303,738,151 | (6,903,045) |

APPENDIX C
Depreciation Parameter Comparison

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Average Service Life

Electric Utility

| FERC Account | Account Description | Present | | | Proposed | | | Difference | |
|-----------------|----------------------------------|-----------------|-------|----------------|-----------------|-------|----------------|------------|----------------|
| | | Average Life | Curve | Net Salvage | Average Life | Curve | Net Salvage | Life | Net Salvage |
| Transmission | | | | | | | | | |
| 352 | Structures & Improvements | 68 | R5 | 0 | 70 | R5 | -5 | 2 | -5 |
| 353 | Station Equipment | 56 | R2 | -10 | 56 | R2 | -15 | 0 | -5 |
| 354 | Towers & Fixtures | 70 | R4 | -35 | 75 | R4 | -35 | 5 | 0 |
| 355 | Poles & Fixtures | 62 | R2 | -35 | 62 | R2 | -50 | 0 | -15 |
| 356 | Overhead Conductor & Devices | 63 | R1 | -30 | 67 | R1 | -35 | 4 | -5 |
| 357 | Underground Conduit | 73 | R4 | 0 | 73 | R4 | 0 | 0 | 0 |
| 358 | Underground Conductor & Devices | 55 | R2 | 0 | 50 | R3 | -5 | -5 | -5 |
| Distribution | | | | | | | | | |
| 361 | Structures & Improvements | 60 | R3 | -30 | 63 | R2.5 | -30 | 3 | 0 |
| 362 | Station Equipment | 55 | R1.5 | -20 | 53 | R2 | -25 | -2 | -5 |
| 364 | Poles, Towers & Fixtures | 44 | R1 | -100 | 47 | R1 | -120 | 3 | -20 |
| 365 | Overhead Conductor & Devices | 39 | L0 | -20 | 39 | L0 | -25 | 0 | -5 |
| 366 | Underground Conduit | 52 | R3 | -10 | 56 | R3 | -20 | 4 | -10 |
| 367 | Underground Conductor & Devices | 45 | R2.5 | 0 | 49 | R1.5 | -10 | 4 | -10 |
| 369 | Services - Overhead | 40 | R1.5 | -70 | 42 | R1.5 | -85 | 2 | -15 |
| 369 | Services - Underground | 41 | R4 | -5 | 44 | R4 | -5 | 3 | 0 |
| 373 | Street Lighting & Signal Systems | 29 | L0 | -35 | 29 | L0 | -40 | 0 | -5 |
| General | | | | | | | | | |
| 390 | Structures & Improvements | 57 | R1.5 | -20 | 55 | R1.5 | -20 | -2 | 0 |
| 390 | Leasehold Improvements | 10 | SQ | 0 | 10 | SQ | 0 | 0 | 0 |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Average Service Life

Gas Utility

| FERC Account | Account Description | Present | | | Proposed | | | Difference | |
|--------------|--|--------------|-------|-------------|--------------|-------|-------------|------------|-------------|
| | | Average Life | Curve | Net Salvage | Average Life | Curve | Net Salvage | Life | Net Salvage |
| Transmission | | | | | | | | | |
| 366 | Structures & Improvements | 52 | R3 | -5 | 65 | R4 | -5 | 13 | 0 |
| 367 | Mains | 75 | R2.5 | -15 | 75 | R2.5 | -15 | 0 | 0 |
| 369 | Measure & Regulating Station Equipment | 33 | R1.5 | -30 | 40 | R1 | -30 | 7 | 0 |
| Distribution | | | | | | | | | |
| 375 | Structures & Improvements | 41 | R5 | 0 | 50 | R5 | -5 | 9 | -5 |
| 376 | Mains - Metallic | 51 | R1.5 | -20 | 63 | R2 | -25 | 12 | -5 |
| 376 | Mains - Plastic | 45 | R2.5 | -15 | 54 | R2.5 | -20 | 9 | -5 |
| 378 | Measure & Regulating Station Equipment - General | 38 | R0.5 | -25 | 38 | R0.5 | -25 | 0 | 0 |
| 379 | Measure & Regulating Station Equipment - City Gate | 38 | R0.5 | -2 | 38 | R0.5 | -5 | 0 | -3 |
| 380 | Services - Metallic | 40 | S3 | -40 | 51 | R3 | -40 | 11 | 0 |
| 380 | Services - Plastic | 39 | R2.5 | -30 | 39 | R2.5 | -25 | 0 | 5 |
| General | | | | | | | | | |
| 390 | Structures & Improvements | 55 | R1.5 | -20 | 55 | R1.5 | -14 | 0 | 6 |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Average Service Life

Common Utility

| FERC Account | Account Description | Present | | | Proposed | | | Difference | |
|-----------------|------------------------------------|-----------------|-------|----------------|-----------------|-------|----------------|------------|----------------|
| | | Average Life | Curve | Net Salvage | Average Life | Curve | Net Salvage | Life | Net Salvage |
| 390 | Structures & Improvements | 55 | R1.5 | -20 | 50 | L0 | -25 | -5 | -5 |
| 390 | Structures & Improvements - Leased | 10 | SQ | 0 | 10 | SQ | 0 | 0 | 0 |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Vintage Group

Electric Utility

| FERC Account | Account Description | Present | | | Proposed | | | Difference | |
|---|---|-----------------|-------|----------------|-----------------|-------|----------------|------------|----------------|
| | | Average Life | Curve | Net Salvage | Average Life | Curve | Net Salvage | Life | Net Salvage |
| Intangible | | | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 5 | (1) | 0 | 5 | (1) | 0 | 0 | 0 |
| General | | | | | | | | | |
| 391 | Office Furniture & Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| 391 | Network Equipment | 4 | (1) | 0 | 6 | (1) | 0 | 2 | 0 |
| 392 | Transportation Equipment - Automobiles | 10 | (1) | 0 | 10 | (1) | 5 | 0 | 5 |
| 392 | Transportation Equipment - Light Trucks | 12 | (1) | 0 | 10 | (1) | 10 | -2 | 10 |
| 392 | Transportation Equipment - Trailers | 15 | (1) | 0 | 12 | (1) | 20 | -3 | 20 |
| 392 | Transportation Equipment - Heavy Trucks | 14 | (1) | 0 | 12 | (1) | 15 | -2 | 15 |
| 393 | Stores Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| 394 | Tools, Shop & Garage Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| 395 | Laboratory Equipment | 10 | (1) | 0 | 10 | (1) | 0 | 0 | 0 |
| 396 | Power Operated Equipment | 12 | (1) | 0 | 12 | (1) | 15 | 0 | 15 |
| 397 | Communication Equipment | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| 397 | Communication Equipment - Two Way | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| 397 | Communication Equipment - AES | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| 397 | Communication Equipment - EMS | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| 398 | Miscellaneous Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| Distribution (Vintage Group Treatment) | | | | | | | | | |
| 368 | Line Transformers | 32 | (1) | -5 | 32 | (1) | -5 | 0 | 0 |
| 368 | Line Capacitors | 25 | (1) | -10 | 25 | (1) | -7 | 0 | 3 |
| 370 | Meters - Old | 20 | (1) | 0 | 20 | (1) | -5 | 0 | -5 |
| 370 | Meters | 15 | (1) | 0 | 15 | (1) | -5 | 0 | -5 |

(1) No curve is used for amortized accounts.

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Vintage Group

Gas Utility

| FERC Account | Account Description | Present | | | Proposed | | | Difference | |
|---|---|-----------------|-------|----------------|-----------------|-------|----------------|------------|----------------|
| | | Average Life | Curve | Net Salvage | Average Life | Curve | Net Salvage | Life | Net Salvage |
| Intangible | | | | | | | | | |
| | 303 Intangible Computer Software - 5 Year | 5 | (1) | 0 | 5 | (1) | 0 | 0 | 0 |
| | 303 Intangible Computer Software - 10 Year | 10 | (1) | 0 | 10 | (1) | 0 | 0 | 0 |
| General | | | | | | | | | |
| | 391 Office Furniture & Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| | 391 Network Equipment | 4 | (1) | 0 | 6 | (1) | 0 | 2 | 0 |
| | 392 Transportation Equipment - Automobiles | 10 | (1) | 0 | 10 | (1) | 5 | 0 | 5 |
| | 392 Transportation Equipment - Light Trucks | 12 | (1) | 0 | 10 | (1) | 10 | -2 | 10 |
| | 392 Transportation Equipment - Trailers | 15 | (1) | 0 | 12 | (1) | 20 | -3 | 20 |
| | 392 Transportation Equipment - Heavy Trucks | 14 | (1) | 0 | 12 | (1) | 15 | -2 | 15 |
| | 393 Stores Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| | 394 Tools, Shop & Garage Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| | 395 Laboratory Equipment | 10 | (1) | 0 | 10 | (1) | 0 | 0 | 0 |
| | 396 Power Operated Equipment | 12 | (1) | 0 | 12 | (1) | 15 | 0 | 15 |
| | 397 Communication Equipment | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| | 397 Communication Equipment - Two Way | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| | 397 Communication Equipment - AES | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| | 397 Communication Equipment - EMS | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| | 398 Miscellaneous Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| Distribution (Vintage Group Treatment) | | | | | | | | | |
| | 381 Meters | 20 | (1) | -3 | 20 | (1) | -5 | 0 | -2 |
| | 381 Meters - Telemetry | 8 | (1) | 0 | 8 | (1) | 0 | 0 | 0 |
| | 383 House Regulators | 20 | (1) | 0 | 20 | (1) | -1 | 0 | -1 |

(1) No curve is used for amortized accounts.

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Present and Proposed Depreciation Rates

Vintage Group

Common Utility

| | Present | | | Proposed | | | Difference | |
|---|---------|-------|---------|----------|-------|---------|------------|---------|
| | Average | Curve | Net | Average | Curve | Net | Life | Net |
| | Life | | Salvage | Life | | Salvage | | Salvage |
| 303 Intangible Computer Software - 3 Year | 3 | (1) | 0 | 3 | (1) | 0 | 0 | 0 |
| 303 Intangible Computer Software - 5 Year | 5 | (1) | 0 | 5 | (1) | 0 | 0 | 0 |
| 303 Intangible Computer Software - 7 Year | 7 | (1) | 0 | 7 | (1) | 0 | 0 | 0 |
| 303 Intangible Computer Software - 10 Year | 10 | (1) | 0 | 10 | (1) | 0 | 0 | 0 |
| 303 Intangible Computer Software - 15 Year | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| General | | | | | | | | |
| 391 Office Furniture & Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| 391 Network Equipment | 4 | (1) | 0 | 5 | (1) | 0 | 1 | 0 |
| 392 Transportation Equipment - Automobiles | 10 | (1) | 0 | 10 | (1) | 5 | 0 | 5 |
| 392 Transportation Equipment - Light Trucks | 12 | (1) | 0 | 10 | (1) | 10 | -2 | 10 |
| 392 Transportation Equipment - Trailers | 15 | (1) | 0 | 12 | (1) | 20 | -3 | 20 |
| 392 Transportation Equipment - Heavy Trucks | 14 | (1) | 0 | 12 | (1) | 15 | -2 | 15 |
| 393 Stores Equipment | 20 | (1) | 0 | 20 | (1) | 0 | 0 | 0 |
| 394 Tools, Shop & Garage Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |
| 395 Laboratory Equipment | 10 | (1) | 0 | 10 | (1) | 0 | 0 | 0 |
| 396 Power Operated Equipment | 12 | (1) | 0 | 12 | (1) | 15 | 0 | 15 |
| 397 Communication Equipment | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| 397 Communication Equipment - Two Way | 9 | (1) | 0 | 10 | (1) | 0 | 1 | 0 |
| 398 Miscellaneous Equipment | 15 | (1) | 0 | 15 | (1) | 0 | 0 | 0 |

(1) No curve is used for amortized accounts.

APPENDIX D
Comparison of Book and Theoretical Depreciation Reserve

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy

Comparison of Actual and Theoretical Reserve
Electric Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|-------------------------------|----------------------------------|---------------------------------|-------------------------|----------------------------|-----------------------|---------------------|
| Transmission | | | | | | |
| 352 | Structure & Improvements | 103,086,366 | 103,086,366 | 17,398,079 | 16,791,010 | (607,070) |
| 353 | Station Equipment | 1,181,449,210 | 1,181,449,210 | 275,895,262 | 266,220,136 | (9,675,127) |
| 354 | Towers & Fixtures | 118,631,858 | 118,631,858 | 68,909,593 | 66,493,064 | (2,416,530) |
| 355 | Poles & Fixtures | 1,330,556,061 | 1,330,556,061 | 195,211,295 | 188,365,602 | (6,845,692) |
| 356 | Overhead Conductor & Devices | 532,704,102 | 532,704,102 | 92,484,304 | 89,241,054 | (3,243,250) |
| 357 | Underground Conduit | 25,910,138 | 25,910,138 | 3,857,479 | 3,722,204 | (135,275) |
| 358 | Underground Conductor & Devices | 30,710,573 | 30,710,573 | 6,968,325 | 6,723,959 | (244,366) |
| | Total Transmission | 3,323,048,309 | 3,323,048,309 | 660,724,337 | 637,557,028 | (23,167,309) |
| Distribution - Minnesota Only | | | | | | |
| 361 | Structure & Improvements | 43,721,596 | 43,721,596 | 14,204,039 | 14,082,032 | (122,007) |
| 362 | Station Equipment | 552,978,032 | 552,978,032 | 195,739,418 | 194,058,095 | (1,681,323) |
| 364 | Poles, Towers & Fixtures | 343,536,905 | 343,536,905 | 195,767,725 | 194,086,158 | (1,681,566) |
| 365 | Overhead Conductor & Devices | 373,235,852 | 373,235,852 | 102,847,356 | 101,963,938 | (883,418) |
| 366 | Underground Conduit | 261,312,548 | 261,312,548 | 77,733,025 | 77,065,329 | (667,695) |
| 367 | Underground Conductor & Devices | 967,850,933 | 967,850,933 | 269,040,527 | 266,729,577 | (2,310,950) |
| 369 | Services - Overhead | 71,641,753 | 71,641,753 | 54,408,242 | 53,940,897 | (467,345) |
| 369 | Services - Underground | 185,773,119 | 185,773,119 | 83,922,749 | 83,201,886 | (720,863) |
| 373 | Street Lighting & Signal Systems | 64,184,329 | 64,184,329 | 21,101,842 | 20,920,586 | (181,256) |
| | Total Distribution | 2,864,235,067 | 2,864,235,067 | 1,014,764,923 | 1,006,048,499 | (8,716,423) |
| General | | | | | | |
| 390 | Structures and Improvements | 63,508,306 | 63,508,306 | 25,927,493 | 23,807,986 | (2,119,507) |
| 390 | Leasehold Improvements | 35,652 | 35,652 | 35,652 | 35,652 | - |
| | Total General | 63,543,958 | 63,543,958 | 25,963,144 | 23,843,637 | (2,119,507) |
| | Total Electric Utility | 6,250,827,334 | 6,250,827,334 | 1,701,452,404 | 1,667,449,165 | (34,003,239) |

Appendix D: Theoretical Reserve Comparison
 2 of 6

Xcel Energy
 Comparison of Actual and Theoretical Reserve
Gas Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|-------------------------------|--|---------------------------------|-------------------------|----------------------------|-----------------------|-------------------|
| Transmission | | | | | | |
| 366 | Structure & Improvements | 1,130,639 | 1,130,639 | 403,631 | 631,260 | 227,629 |
| 367 | Mains | 65,790,678 | 65,790,678 | 14,689,913 | 23,607,633 | 8,917,720 |
| 369 | Measure & Regulating Station Equipment | 13,617,811 | 13,617,811 | 3,924,334 | 6,322,674 | 2,398,340 |
| | Total Transmission | 80,539,128 | 80,539,128 | 19,017,879 | 30,561,568 | 11,543,689 |
| Distribution - Minnesota Only | | | | | | |
| 375 | Structure & Improvements | 727,864 | 727,864 | 64,516 | 78,795 | 14,279 |
| 376 | Mains - Metallic | 135,069,020 | 135,069,020 | 38,610,427 | 47,649,540 | 9,039,114 |
| 376 | Mains - Plastic | 384,394,656 | 384,394,656 | 112,391,017 | 138,702,955 | 26,311,938 |
| 378 | Measure & Regulating Station Equipment - General | 22,768,672 | 22,768,672 | 3,670,958 | 4,523,719 | 852,761 |
| 379 | Measure & Regulating Station Equipment - City Gate | 1,392,566 | 1,392,566 | 246,046 | 303,648 | 57,602 |
| 380 | Services - Metallic | 12,590,915 | 12,590,915 | 9,287,056 | 11,375,605 | 2,088,549 |
| 380 | Services - Plastic | 272,681,597 | 272,681,597 | 115,177,977 | 142,142,133 | 26,964,156 |
| | Total Distribution | 829,625,290 | 829,625,290 | 279,447,997 | 344,776,397 | 65,328,400 |
| General | | | | | | |
| 390 | Structure & Improvements | 1,493,079 | 1,493,079 | 269,011 | 70,882 | (198,129) |
| | Total Gas Utility | 911,657,497 | 911,657,497 | 298,734,887 | 375,408,846 | 76,673,959 |

Appendix D: Theoretical Reserve Comparison
 3 of 6

Xcel Energy
 Comparison of Actual and Theoretical Reserve
Common Utility

| FERC Account | Account Description | Plant Balance 01/01/2017 | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|-------------------------|------------------------------------|-------------------------------------|-----------------------------|--------------------------------|---------------------------|-------------------|
| General | | | | | | |
| 390 | Structures & Improvements | 151,813,406 | 151,813,406 | 26,814,057 | 21,297,336 | (5,516,722) |
| 390 | Structures & Improvements - Leased | 18,509,449 | 18,509,449 | 1,774,458 | 1,409,381 | (365,077) |
| | Total Common Utility | 170,322,855 | 170,322,855 | 28,588,515 | 22,706,717 | (5,881,799) |
| | Total All Utilities | 7,332,807,686 | 7,332,807,686 | 2,028,775,806 | 2,065,564,727 | 36,788,921 |

Appendix D: Theoretical Reserve Comparison

4 of 6

Xcel Energy

Comparison of Actual and Theoretical Reserve

Electric Utility

Amortized Acct

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|--|---|-------------------------------------|--------------------------|-----------------------------|--------------------------------|---------------------------|-------------------|
| Intangible | | | | | | | |
| 303 | Intangible Computer Software - 5 Year | 115,172,555 | 27,811,170 | 87,361,384 | 49,893,597 | 44,632,341 | (5,261,257) |
| Total Intangible | | 115,172,555 | 27,811,170 | 87,361,384 | 49,893,597 | 44,632,341 | (5,261,257) |
| General | | | | | | | |
| 391 | Office Furniture & Equipment | 27,593,861 | - | 27,593,861 | 13,486,891 | 14,947,880 | 1,460,989 |
| 391 | Network Equipment | 32,398,061 | - | 32,398,061 | 10,809,106 | 11,957,884 | 1,148,778 |
| 392 | Transportation Equipment - Automobiles | 1,108,813 | - | 1,108,813 | 352,850 | 391,080 | 38,230 |
| 392 | Transportation Equipment - Light Trucks | 32,832,470 | 6,239,706 | 26,592,763 | 11,901,913 | 13,147,406 | 1,245,493 |
| 392 | Transportation Equipment - Trailers | 17,878,078 | - | 17,878,078 | 5,107,733 | 5,631,534 | 523,801 |
| 392 | Transportation Equipment - Heavy Trucks | 97,589,361 | 4,119,785 | 93,469,576 | 29,802,341 | 32,963,431 | 3,161,090 |
| 393 | Stores Equipment | 1,648,791 | - | 1,648,791 | 715,144 | 790,289 | 75,145 |
| 394 | Tools, Shop & Garage Equipment | 81,301,137 | 187,888 | 81,113,250 | 30,368,648 | 33,506,944 | 3,138,296 |
| 395 | Laboratory Equipment | 3,209,733 | - | 3,209,733 | 1,487,920 | 1,630,248 | 142,328 |
| 396 | Power Operated Equipment | 45,134,817 | - | 45,134,817 | 14,318,885 | 15,825,286 | 1,506,401 |
| 397 | Communication Equipment | 17,117,461 | 158,602 | 16,958,859 | 10,641,258 | 11,477,639 | 836,381 |
| 397 | Communication Equipment - Two Way | 6,532,362 | - | 6,532,362 | 603,791 | 669,209 | 65,418 |
| 397 | Communication Equipment - AES | 7,071,726 | - | 7,071,726 | 3,587,868 | 3,976,600 | 388,732 |
| 397 | Communication Equipment - EMS | 47,275,858 | - | 47,275,858 | 7,370,853 | 8,169,456 | 798,604 |
| 398 | Miscellaneous Equipment | 2,723,841 | 66,643 | 2,657,198 | 1,937,582 | 2,145,253 | 207,671 |
| Total General | | 421,416,370 | 10,772,624 | 410,643,745 | 142,492,783 | 157,230,139 | 14,737,356 |
| Distribution - Minnesota Only (Vintage Group Treatment) | | | | | | | |
| 368 | Line Transformers | 372,629,100 | - | 372,629,100 | 167,927,992 | 171,239,942 | 3,311,950 |
| 368 | Line Capacitors | 18,759,258 | 3,570,695 | 15,188,563 | 7,990,287 | 8,150,381 | 160,095 |
| 370 | Meters | 96,316,591 | 41,953,643 | 54,362,948 | 24,217,649 | 24,702,877 | 485,229 |
| Total Distribution | | 487,704,949 | 45,524,338 | 442,180,610 | 200,135,927 | 204,093,201 | 3,957,273 |
| Total Electric Utility | | 1,024,293,873 | 84,108,133 | 940,185,740 | 392,522,307 | 405,955,680 | 13,433,373 |

Appendix D: Theoretical Reserve Comparison
 5 of 6

Xcel Energy
 Comparison of Actual and Theoretical Reserve
Gas Utility

| Amortized Acct | | Plant Balance 01/01/2017 | Fully Accrued | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|--|---|-----------------------------|-------------------|---------------------|------------------------|-------------------|-------------------|
| FERC Account | Account Description | | | | | | |
| Intangible | | | | | | | |
| | 303 Intangible Computer Software - 5 Year | 7,256,644 | 3,062,618 | 4,194,027 | 2,028,183 | 2,060,121 | 31,938 |
| | 303 Intangible Computer Software - 10 Year | 234,274 | - | 234,274 | 81,996 | 85,975 | 3,979 |
| | Total Intangible | 7,490,919 | 3,062,618 | 4,428,301 | 2,110,179 | 2,146,096 | 35,917 |
| General | | | | | | | |
| | 391 Office Furniture & Equipment | 906,378 | - | 906,378 | 299,696 | 467,586 | 167,890 |
| | 391 Network Equipment | 38,023 | - | 38,023 | 15,843 | 25,279 | 9,436 |
| | 392 Transportation Equipment - Automobiles | 376,943 | - | 376,943 | 42,346 | 67,568 | 25,222 |
| | 392 Transportation Equipment - Light Trucks | 6,054,537 | 847,483 | 5,207,054 | 2,113,744 | 3,041,760 | 928,016 |
| | 392 Transportation Equipment - Trailers | 1,504,110 | 50,252 | 1,453,858 | 500,374 | 703,350 | 202,977 |
| | 392 Transportation Equipment - Heavy Trucks | 8,425,887 | 725,075 | 7,700,813 | 3,062,075 | 4,399,984 | 1,337,909 |
| | 393 Stores Equipment | 10,091 | - | 10,091 | 2,775 | 4,428 | 1,653 |
| | 394 Tools, Shop & Garage Equipment | 6,257,777 | (59,073) | 6,316,850 | 1,937,549 | 2,856,156 | 918,606 |
| | 396 Power Operated Equipment | 2,858,219 | - | 2,858,219 | 622,370 | 946,052 | 323,682 |
| | 397 Communication Equipment | 4,722,283 | - | 4,722,283 | 3,635,958 | 4,554,658 | 918,700 |
| | 397 Communication Equipment - Two Way | 120,072 | - | 120,072 | 10,009 | 15,970 | 5,961 |
| | 397 Communication Equipment - AES | 15,492,768 | - | 15,492,768 | 4,108,288 | 6,555,265 | 2,446,977 |
| | 397 Communication Equipment - EMS | 764,413 | - | 764,413 | 223,167 | 356,090 | 132,923 |
| | 398 Miscellaneous Equipment | 50,705 | - | 50,705 | 33,509 | 42,589 | 9,080 |
| | Total General | 47,582,206 | 1,563,737 | 46,018,470 | 16,607,703 | 24,036,734 | 7,429,031 |
| Distribution - Minnesota Only (Vintage Group Treatment) | | | | | | | |
| | 381 Meters | 105,068,640 | 12,890,367 | 92,178,273 | 49,567,409 | 57,890,884 | 8,323,475 |
| | 381 Meters - Telemetry | 36,778 | 36,778 | - | - | - | - |
| | 383 House Regulators | 10,070,258 | - | 10,070,258 | 10,170,961 | 10,170,961 | - |
| | Total Distribution | 115,175,677 | 12,927,145 | 102,248,532 | 59,738,370 | 68,061,845 | 8,323,475 |
| | Total Gas Utility | 170,248,802 | 17,553,499 | 152,695,302 | 78,456,252 | 94,244,675 | 15,788,422 |

Appendix D: Theoretical Reserve Comparison
 6 of 6

Xcel Energy
 Comparison of Present and Proposed Accruals
Common Utility

Vintage Group

| FERC Account | Account Description | Plant Balance 01/01/2017 | Fully Accrued | Recoverable Cost | Theoretical Reserve | Actual Reserve | Difference |
|---------------------|----------------------------|---------------------------------|----------------------|-------------------------|----------------------------|-----------------------|-------------------|
| Intangible | | | | | | | |
| 303.004 | Computer Software- 3 Year | 7,673,530 | 7,673,530 | - | - | - | - |
| 303.004 | Computer Software- 5 Year | 197,541,349 | 87,309,050 | 110,232,298 | 50,650,961 | 46,278,871 | (4,372,090) |
| 303.004 | Computer Software- 7 Year | 44,140,612 | 44,140,612 | - | - | - | - |
| 303.004 | Computer Software- 10 Year | 68,449,240 | 58,267,735 | 10,181,505 | 3,932,060 | 3,592,653 | (339,408) |
| 303 | Computer Software- 15 Year | 61,015,418 | - | 61,015,418 | 3,856,103 | 3,523,252 | (332,851) |
| Total Intangible | | 378,820,150 | 197,390,928 | 181,429,222 | 58,439,124 | 53,394,775 | (5,044,349) |

General Plant

| | | | | | | | |
|-----|---|-------------|-----------|-------------|------------|------------|-----------|
| 391 | Office Furniture & Equipment | 27,141,560 | 2,929,083 | 24,212,478 | 11,576,010 | 12,392,643 | 816,633 |
| 391 | Network Equipment | 100,446,164 | (3,261) | 100,449,425 | 43,563,951 | 46,846,249 | 3,282,299 |
| 392 | Transportation Equipment - Automobiles | 823,465 | - | 823,465 | 270,044 | 290,391 | 20,346 |
| 392 | Transportation Equipment - Light Trucks | 3,431,469 | 25,252 | 3,406,217 | 1,899,106 | 1,924,475 | 25,369 |
| 392 | Transportation Equipment - Trailers | 1,099,687 | 104,349 | 995,338 | 517,724 | 556,732 | 39,008 |
| 392 | Transportation Equipment - Heavy Trucks | 5,505,442 | 1,252,353 | 4,253,089 | 2,360,145 | 2,504,271 | 144,126 |
| 393 | Stores Equipment | 246,162 | - | 246,162 | 41,047 | 44,140 | 3,093 |
| 394 | Tools, Shop & Garage Equipment | 4,041,708 | 10,892 | 4,030,816 | 1,378,370 | 1,481,774 | 103,404 |
| 395 | Laboratory Equipment | - | - | - | - | - | - |
| 396 | Power Operated Equipment | 990,912 | 281,183 | 709,729 | 264,275 | 284,187 | 19,912 |
| 397 | Communication Equipment | 964,432 | 248,569 | 715,864 | 541,718 | 582,533 | 40,815 |
| 397 | Communication Equipment - Two Way | 75,068 | - | 75,068 | 3,753 | 4,036 | 283 |
| 398 | Miscellaneous Equipment | 582,227 | - | 582,227 | 400,574 | 420,760 | 20,186 |

| | | | | | | | |
|---------------|--|-------------|-----------|-------------|------------|------------|-----------|
| Total General | | 145,348,298 | 4,848,419 | 140,499,879 | 62,816,718 | 67,332,190 | 4,515,473 |
|---------------|--|-------------|-----------|-------------|------------|------------|-----------|

| | | | | | | | |
|----------------------|--|-------------|-------------|-------------|-------------|-------------|-----------|
| Total Common Utility | | 524,168,448 | 202,239,347 | 321,929,101 | 121,255,842 | 120,726,966 | (528,876) |
|----------------------|--|-------------|-------------|-------------|-------------|-------------|-----------|

| | | | | | | | |
|-----------------------------|--|---------------|-------------|---------------|-------------|-------------|------------|
| Total Vintage All Utilities | | 1,718,711,122 | 303,900,979 | 1,414,810,143 | 592,234,402 | 620,927,321 | 28,692,919 |
|-----------------------------|--|---------------|-------------|---------------|-------------|-------------|------------|

| | | | | | | | |
|-------------------------------------|--|---------------|-------------|---------------|---------------|---------------|------------|
| Total ASL and Vintage All Utilities | | 9,051,518,808 | 303,900,979 | 8,747,617,828 | 2,621,010,208 | 2,686,492,048 | 65,481,840 |
|-------------------------------------|--|---------------|-------------|---------------|---------------|---------------|------------|

APPENDIX E
Net Salvage Analysis

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 Transmission Structures & Improvements
 Account 352
 1950-2016

| Transaction Year | Transactional History Retirements | Removal Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | 896 | 1,731 | 1,775 | (44) | -4.91% | | | | | | | | | |
| 1951 | 1,487 | 199 | 528 | (329) | -22.13% | -15.65% | | | | | | | | |
| 1952 | 2,385 | 503 | 316 | 187 | 7.84% | -3.67% | -3.90% | | | | | | | |
| 1953 | 538 | 38 | 246 | (208) | -38.66% | -0.72% | -7.94% | -7.43% | | | | | | |
| 1954 | 11,453 | 1,211 | 514 | 697 | 6.09% | 4.08% | 4.70% | 2.19% | 1.81% | | | | | |
| 1955 | 3,562 | 69 | 424 | (355) | -9.97% | 2.28% | 0.86% | 1.79% | -0.04% | -0.26% | | | | |
| 1956 | 181 | 50 | (8) | 58 | 32.04% | -7.93% | 2.63% | 1.22% | 2.09% | 0.26% | 0.03% | | | |
| 1957 | 3,790 | 4,473 | 371 | 4,102 | 108.23% | 104.76% | 50.51% | 23.71% | 21.99% | 20.45% | 17.75% | 16.91% | | |
| 1958 | 698 | - | 387 | (387) | -55.44% | 82.78% | 80.81% | 41.53% | 20.91% | 19.32% | 18.11% | 15.63% | 14.89% | |
| 1959 | 3,809 | 1,309 | 499 | 810 | 21.27% | 9.39% | 54.54% | 54.06% | 35.12% | 20.98% | 19.63% | 18.56% | 16.40% | 15.73% |
| 1960 | 6,773 | - | 1,048 | (1,048) | -15.44% | -2.25% | -5.24% | -23.81% | -16.96% | -12.81% | -11.91% | -11.82% | -10.17% | |
| 1961 | - | - | 4 | (4) | NA | -15.53% | -2.29% | -5.58% | -23.05% | -23.15% | -16.88% | -12.80% | -11.90% | 11.61% |
| 1962 | - | - | 0 | 0 | NA | NA | -15.53% | -2.29% | -5.58% | -23.05% | -23.15% | -16.88% | -12.80% | 11.90% |
| 1963 | 7766 | - | - | 0 | 0.00% | 0.00% | -0.05% | -7.24% | -1.32% | -3.30% | 15.21% | 15.34% | 11.95% | 10.18% |
| 1964 | 847 | 63 | 169 | (106) | -12.51% | -1.23% | -1.23% | -1.28% | -7.53% | -1.81% | -3.69% | 14.22% | 14.35% | 11.19% |
| 1965 | - | - | - | 0 | NA | -12.51% | -1.23% | -1.23% | -1.23% | -7.53% | -1.81% | -3.69% | 14.22% | 14.35% |
| 1966 | 1820 | - | 899 | (899) | -49.40% | -49.40% | -37.68% | -9.63% | -9.63% | -9.67% | -11.96% | -5.53% | -7.53% | 9.68% |
| 1967 | - | - | 0 | 0 | NA | -49.40% | -49.40% | -37.68% | -9.63% | -9.63% | -9.67% | -11.96% | -5.53% | 9.68% |
| 1968 | 1262 | 157 | 116 | 41 | 3.25% | -27.84% | -27.84% | -27.84% | -24.54% | -8.24% | -8.24% | -8.28% | -10.92% | -5.41% |
| 1969 | 1221 | - | - | 0 | 0.00% | 1.65% | 1.65% | -19.94% | -19.94% | -18.72% | -7.46% | -7.46% | -7.49% | -10.24% |
| 1970 | 67 | - | 272 | (272) | -405.97% | -21.12% | -9.06% | -9.06% | -25.86% | -23.69% | -23.69% | -9.52% | -9.52% | -5.59% |
| 1971 | 7298 | 82 | - | 82 | 1.12% | -2.58% | -2.21% | -1.51% | -1.51% | -8.98% | -8.98% | -9.22% | -5.69% | -5.69% |
| 1972 | 1105 | 100 | 181 | (81) | -7.33% | 0.01% | -3.20% | -2.80% | -2.10% | -8.84% | -8.84% | -8.84% | -9.07% | -5.77% |
| 1973 | - | 150 | 304 | (154) | NA | -21.27% | -1.82% | -5.02% | -4.39% | -3.51% | -3.51% | -10.04% | -10.04% | -10.20% |
| 1974 | - | - | 0 | 0 | NA | NA | -21.27% | -1.82% | -5.02% | -4.39% | -3.51% | -3.51% | -10.04% | -10.04% |
| 1975 | - | - | 144 | (144) | NA | NA | -21.27% | -1.82% | -5.02% | -4.39% | -3.51% | -3.51% | -10.04% | -10.04% |
| 1976 | 906 | 30 | 20 | 10 | 1.10% | -14.79% | -14.79% | -31.79% | -18.35% | -3.08% | -5.96% | -5.28% | -4.37% | -4.37% |
| 1977 | 7646 | 30,541 | 1,288 | 29,253 | 382.59% | 342.18% | 340.49% | 340.49% | 338.69% | 299.10% | 170.84% | 168.57% | 157.29% | 147.32% |
| 1978 | 862 | - | 29 | (29) | -3.36% | 349.49% | 310.54% | 309.01% | 309.01% | 307.37% | 274.31% | 162.41% | 160.28% | 150.04% |
| 1979 | 763 | - | - | 0 | 0.00% | -1.78% | -1.78% | 287.26% | 285.84% | 285.84% | 284.33% | 255.76% | 155.74% | 153.72% |
| 1980 | 7535 | 527 | 465 | 62 | 0.82% | 0.76% | 0.36% | 174.26% | 165.40% | 164.59% | 164.59% | 163.72% | 153.67% | 111.04% |
| 1981 | 1415 | - | 95 | (95) | -6.71% | -0.37% | -0.34% | -0.59% | 160.21% | 152.67% | 151.92% | 151.92% | 151.11% | 142.46% |
| 1982 | 4801 | 50 | 50 | (50) | -1.04% | -2.33% | -0.60% | -0.57% | 126.58% | 121.83% | 121.23% | 121.23% | 121.23% | 120.58% |
| 1983 | 26150 | 1,249 | 3,697 | (2,448) | -9.36% | -8.07% | -8.01% | -6.34% | -6.22% | -6.16% | 54.28% | 53.32% | 53.04% | 53.04% |
| 1984 | 28115 | - | - | 0 | 0.00% | -0.80% | -0.80% | -0.79% | -0.79% | -0.79% | -0.79% | 8.08% | 8.08% | 8.02% |
| 1985 | 610 | 5,816 | - | 5,816 | 953.44% | 2.06% | 1.09% | 1.06% | 1.03% | 1.02% | 1.01% | 9.82% | 9.80% | 9.80% |
| 1986 | 358 | 86,263 | 34 | 86,229 | 24086.31% | 9508.78% | 32.63% | 29.07% | 28.61% | 28.45% | 27.80% | 27.74% | 27.65% | 35.84% |
| 1987 | 99 | 29,269 | 264 | 29,005 | 29297.98% | 25215.32% | 11344.89% | 42.90% | 38.47% | 37.86% | 37.66% | 36.80% | 36.71% | 36.80% |
| 1988 | - | - | - | 0 | NA | 29297.98% | 25215.32% | 11344.89% | 42.90% | 38.47% | 37.86% | 37.66% | 36.80% | 36.71% |
| 1989 | 1577 | - | - | 0 | 0.00% | 0.00% | 1730.61% | 5665.39% | 4578.29% | 42.66% | 38.27% | 37.67% | 37.47% | 36.62% |
| 1990 | - | - | - | 0 | NA | 0.00% | 0.00% | 1730.61% | 5665.39% | 4578.29% | 42.66% | 38.27% | 37.67% | 37.47% |
| 1991 | 399 | - | 540 | (540) | -135.34% | -27.33% | -27.33% | 1371.81% | 1371.81% | 4714.10% | 3960.24% | 42.41% | 38.05% | 37.45% |
| 1992 | - | - | - | 0 | NA | -135.34% | -27.33% | -27.33% | 1371.81% | 1371.81% | 4714.10% | 3960.24% | 42.41% | 38.05% |
| 1993 | - | - | - | 0 | NA | -135.34% | -27.33% | -27.33% | 1371.81% | 1371.81% | 4714.10% | 3960.24% | 42.41% | 38.05% |
| 1994 | - | - | - | 0 | NA | NA | NA | -135.34% | -27.33% | -27.33% | 1371.81% | 4714.10% | 3960.24% | 42.41% |
| 1995 | - | - | - | 0 | NA | NA | NA | -135.34% | -27.33% | -27.33% | 1371.81% | 4714.10% | 3960.24% | 42.41% |
| 1996 | 226 | - | 7,845 | (7,845) | -3471.24% | -3471.24% | -3471.24% | -3471.24% | -3471.24% | -1341.60% | -1341.60% | -380.79% | -380.79% | 896.13% |
| 1997 | 100 | - | 572 | (572) | -572.00% | -2581.90% | -2581.90% | -2581.90% | -2581.90% | -1235.45% | -1235.45% | -389.10% | -389.10% | 296.42% |
| 1998 | 7266 | - | 13,664 | (13,664) | -188.05% | -193.27% | -290.85% | -290.85% | -290.85% | -290.85% | -290.85% | -293.08% | -293.08% | -296.42% |
| 1999 | 1369 | - | 1,254 | (1,254) | -91.60% | -172.76% | -177.33% | -260.41% | -260.41% | -260.41% | -260.41% | -260.41% | -255.07% | -255.07% |
| 2000 | 20274 | 2,888 | 195 | 2,693 | 13.28% | 6.65% | -42.29% | -44.11% | -70.61% | -70.61% | -70.61% | -70.61% | -70.61% | -71.48% |
| 2001 | - | - | - | 0 | NA | 13.28% | 6.65% | -42.29% | -44.11% | -70.61% | -70.61% | -70.61% | -70.61% | -70.61% |
| 2002 | 167 | - | - | 0 | 0.00% | 0.00% | 13.17% | 6.60% | -42.04% | -43.86% | -70.21% | -70.21% | -70.21% | -70.21% |
| 2003 | - | - | (293,236) | 293,236 | NA | 175590.56% | 175590.56% | 1447.72% | 1351.10% | 966.47% | 961.20% | 927.13% | 927.13% | 927.13% |
| 2004 | - | - | - | 0 | NA | 175590.56% | 175590.56% | 1447.72% | 1351.10% | 966.47% | 961.20% | 927.13% | 927.13% | 927.13% |
| 2005 | 302.4 | - | 265,029 | (265,029) | -87641.87% | -87641.87% | 9327.79% | 6008.21% | 6008.21% | 148.08% | 134.07% | 52.28% | 52.28% | 52.28% |
| 2006 | 29998.99 | - | 0 | 0 | 0.00% | 874.64% | 874.64% | 93.09% | 92.58% | 92.58% | 60.90% | 56.89% | 26.92% | 25.91% |
| 2007 | - | - | 6,761 | (6,761) | NA | -22.54% | -896.96% | 70.78% | 70.39% | 70.39% | 60.90% | 56.89% | 26.92% | 25.91% |
| 2008 | 18372.08 | - | 6,167 | (6,167) | -33.57% | -70.37% | -26.73% | -571.06% | -571.06% | 31.39% | 31.28% | 26.00% | 23.72% | 23.72% |
| 2009 | 27,066.74 | 0.00 | - | 0 | 0.00% | -13.57% | -28.45% | -17.14% | -366.99% | -366.99% | 20.17% | 20.13% | 18.69% | 18.69% |
| 2010 | 34,423.64 | 0 | 865 | (865) | -2.51% | -1.41% | -8.81% | -17.27% | -12.56% | -253.10% | -253.10% | 13.06% | 13.06% | 13.06% |
| 2011 | 10,040.30 | 0 | - | 0 | 0.00% | -1.95% | -1.21% | -7.82% | -15.34% | -11.50% | -231.96% | -231.96% | 11.97% | 11.97% |
| 2012 | 4,777.00 | 0 | 2,381 | (2,381) | -49.84% | -16.07% | -4.95% | -9.72% | -9.72% | -17.08% | -17.08% | -225.00% | -225.00% | -9.63% |
| 2013 | 70,681.00 | 2,866 | - | (8,406) | -11.89% | -14.22% | -12.82% | -7.93% | -7.93% | -10.78% | -14.86% | -14.86% | -148.01% | -148.01% |
| 2014 | 5,105.00 | 0 | 24,713 | (24,713) | -484.09% | -43.69% | -44.06% | -39.18% | -29.08% | -23.91% | -28.92% | -24.59% | -156.55% | -156.55% |
| 2015 | 70,653.00 | 0 | 2 | (2) | 0.00% | -32.62% | -22.62% | -23.48% | -22.01% | -18.58% | -16.33% | -17.64% | -20.44% | -18.18% |
| 2016 | 34,538.00 | 3,552 | 28,076 | (24,524) | -71.01% | -23.32% | -44.64% | -31.85% | -32.31% | -30.66% | -26.45% | -23.67% | -24.33% | -26.78% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
Transmission Station Equipment
Account 353
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| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|----------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 1950 | 191,964 | 176,340 | 48,541 | 127,799 | 66.57% | | | | | | | | | |
| 1951 | 70,561 | 180,071 | 42,101 | 137,970 | 195.53% | 101.24% | | | | | | | | |
| 1952 | 159,975 | 54,947 | 23,152 | 31,795 | 19.87% | 73.64% | 70.43% | | | | | | | |
| 1953 | 110,652 | 79,731 | 13,886 | 65,845 | 59.51% | 36.08% | 69.06% | 68.16% | | | | | | |
| 1954 | 116,832 | 31,302 | 23,187 | 8,115 | 6.95% | 32.51% | 27.29% | 53.21% | 57.16% | | | | | |
| 1955 | 146,434 | 87,842 | 9,116 | 78,726 | 53.76% | 32.99% | 40.83% | 34.55% | 53.35% | 56.53% | | | | |
| 1956 | 74,919 | 50,355 | 8,746 | 41,609 | 55.54% | 54.36% | 37.98% | 43.29% | 37.14% | 53.59% | 56.45% | | | |
| 1957 | 88,488 | 12,975 | 5,759 | 8,216 | 8.57% | 30.10% | 41.28% | 31.88% | 37.57% | 33.51% | 48.40% | 52.03% | | |
| 1958 | 410,941 | 163,277 | 53,339 | 109,938 | 26.75% | 23.55% | 27.71% | 33.00% | 29.37% | 32.88% | 31.00% | 40.85% | 44.46% | |
| 1959 | 397,946 | 118,581 | 18,089 | 100,492 | 25.34% | 33.44% | 31.28% | 37.14% | 30.10% | 30.23% | 37.03% | 35.48% | 36.92% | 40.13% |
| 1960 | 549,879 | 386,301 | 41,072 | 345,229 | 62.78% | 47.03% | 40.89% | 38.92% | 39.74% | 40.97% | 38.74% | 39.95% | 38.39% | 43.60% |
| 1961 | 159,757 | 59,808 | 9,108 | 50,700 | 31.74% | 55.79% | 44.82% | 39.93% | 38.20% | 38.98% | 40.16% | 38.17% | 39.31% | 37.91% |
| 1962 | 389,752 | 161,049 | 54,014 | 107,035 | 27.46% | 28.70% | 45.75% | 40.30% | 37.38% | 36.11% | 36.81% | 37.93% | 36.38% | 37.43% |
| 1963 | 72,639 | 24,783 | 9,442 | 15,341 | 21.12% | 26.47% | 27.82% | 44.22% | 39.41% | 36.79% | 35.58% | 36.28% | 37.40% | 35.92% |
| 1964 | 726,080 | 297,566 | 85,882 | 211,684 | 29.15% | 28.42% | 28.11% | 28.54% | 38.46% | 36.17% | 34.74% | 33.41% | 34.48% | 35.41% |
| 1965 | 225,943 | 84,153 | 5,444 | 78,709 | 34.84% | 30.50% | 29.84% | 29.18% | 29.44% | 38.07% | 36.05% | 34.75% | 33.98% | 34.50% |
| 1966 | 507,545 | 192,714 | 29,904 | 162,810 | 32.67% | 33.94% | 31.28% | 30.78% | 30.10% | 30.23% | 37.03% | 35.48% | 34.44% | 33.79% |
| 1967 | 279,550 | 35,831 | 3,231 | 32,600 | 11.66% | 25.21% | 27.36% | 28.11% | 27.83% | 27.76% | 28.03% | 25.03% | 34.59% | 33.47% |
| 1968 | 486,289 | 167,934 | 18,934 | 149,000 | 30.64% | 23.71% | 27.28% | 28.42% | 28.66% | 28.42% | 28.28% | 28.48% | 34.03% | 33.11% |
| 1969 | 508,667 | 126,873 | 46,479 | 80,394 | 15.80% | 23.06% | 20.56% | 24.01% | 25.22% | 26.27% | 26.14% | 26.30% | 26.56% | 31.66% |
| 1970 | 736,674 | 216,280 | 80,729 | 135,551 | 18.40% | 17.34% | 21.08% | 19.77% | 22.37% | 23.39% | 24.60% | 24.53% | 24.82% | 25.09% |
| 1971 | 531,867 | 201,148 | 98,705 | 102,443 | 19.26% | 18.76% | 17.92% | 20.65% | 19.66% | 21.83% | 22.72% | 23.89% | 23.84% | 24.16% |
| 1972 | 248,789 | 83,290 | 17,122 | 66,168 | 26.60% | 21.60% | 20.05% | 18.98% | 21.24% | 20.28% | 22.18% | 23.00% | 24.05% | 24.00% |
| 1973 | 423,612 | 132,467 | 69,255 | 63,212 | 14.92% | 19.24% | 19.25% | 18.93% | 18.28% | 20.33% | 19.57% | 21.36% | 22.33% | 23.22% |
| 1974 | 200,483 | 25,328 | 16,381 | 9,947 | 4.96% | 15.38% | 17.41% | 17.41% | 17.57% | 17.23% | 19.31% | 18.69% | 20.48% | 21.28% |
| 1975 | 362,121 | 119,581 | 48,000 | 71,581 | 19.77% | 14.31% | 14.57% | 17.00% | 17.68% | 17.89% | 17.54% | 19.36% | 18.79% | 20.43% |
| 1976 | 379,610 | 312,892 | 69,690 | 243,202 | 64.07% | 42.44% | 34.36% | 28.33% | 28.06% | 25.88% | 23.97% | 22.75% | 23.74% | 22.92% |
| 1977 | 801,014 | 206,243 | 101,718 | 104,525 | 13.05% | 28.45% | 27.18% | 24.57% | 22.68% | 23.08% | 22.39% | 21.60% | 20.89% | 21.91% |
| 1978 | 491,438 | 136,324 | 60,333 | 75,991 | 15.46% | 13.97% | 25.34% | 24.35% | 21.35% | 21.80% | 21.40% | 20.87% | 20.32% | 21.91% |
| 1979 | 648,564 | 132,686 | 108,806 | 23,880 | 3.68% | 8.76% | 10.53% | 19.29% | 19.35% | 18.32% | 17.88% | 18.49% | 18.59% | 18.56% |
| 1980 | 896,318 | 233,732 | 200,756 | 32,976 | 3.68% | 3.68% | 6.52% | 8.37% | 14.94% | 15.43% | 14.89% | 14.85% | 15.51% | 15.91% |
| 1981 | 96,150 | 130,929 | 69,919 | 61,010 | 63.45% | 94.7% | 71.8% | 10.17% | 16.35% | 10.17% | 16.68% | 16.54% | 15.94% | 15.22% |
| 1982 | 538,499 | (26,070) | 141,399 | (167,469) | -31.10% | -16.77% | -4.80% | -2.28% | 0.99% | 3.77% | 9.71% | 10.58% | 10.30% | 10.70% |
| 1983 | 1,076,523 | 132,045 | 18,020 | 114,025 | 10.59% | -3.31% | 0.04% | 1.55% | 1.98% | 3.75% | 5.39% | 9.91% | 10.58% | 10.36% |
| 1984 | 3,778,188 | 299,712 | 168,894 | 130,818 | 3.46% | 5.04% | 1.43% | 2.52% | 2.68% | 2.78% | 3.60% | 4.51% | 7.11% | 7.61% |
| 1985 | 1,333,389 | 55,528 | 177,732 | (122,204) | -9.16% | 0.17% | 1.98% | -0.67% | 0.24% | 0.64% | 0.87% | 1.68% | 2.62% | 4.95% |
| 1986 | 681,949 | 197,685 | 121,556 | 76,129 | 11.16% | -2.29% | 1.46% | 2.89% | 0.42% | 1.23% | 1.49% | 1.65% | 2.36% | 3.19% |
| 1987 | 1,495,011 | 307,955 | 393,909 | (85,954) | -5.75% | -0.45% | -3.76% | -0.02% | 1.35% | -0.61% | 0.07% | 0.40% | 0.60% | 1.26% |
| 1988 | 367,753 | 114,656 | 102,754 | 11,902 | 3.24% | -3.98% | 0.08% | -3.10% | 0.14% | 1.43% | -0.46% | 0.19% | 0.50% | 0.69% |
| 1989 | 783,633 | 281,424 | 111,715 | 169,709 | 21.65% | 15.77% | 3.61% | 5.16% | 1.06% | 2.14% | 3.09% | 1.28% | 2.00% | 2.00% |
| 1990 | 989,156 | 22,256 | 96,524 | (74,268) | -7.51% | 5.38% | 5.01% | 0.59% | 2.26% | -0.44% | 1.13% | 2.10% | 0.48% | 1.02% |
| 1991 | 802,610 | 53,860 | 210,915 | (157,055) | -19.57% | -12.91% | -2.39% | -1.69% | -3.06% | -1.16% | -2.82% | -0.50% | 0.56% | -0.88% |
| 1992 | 2,030,582 | 2,259 | 69,634 | (67,375) | -3.32% | -7.92% | -7.81% | -2.80% | -2.35% | -3.14% | -1.77% | -2.94% | -0.96% | -2.03% |
| 1993 | 1,561,351 | 13,192 | 148,591 | (135,399) | -8.67% | -6.65% | -8.19% | -8.06% | -4.29% | -3.86% | -4.21% | -3.01% | -3.83% | -1.84% |
| 1994 | 710,094 | 314,444 | 207,985 | 106,459 | 14.99% | -1.27% | -2.26% | -4.96% | -5.38% | -2.30% | -2.02% | -2.65% | -1.65% | -2.59% |
| 1995 | 3,944,102 | 16,898 | 264,933 | (248,035) | -6.29% | -3.04% | -4.46% | -4.18% | -5.54% | -5.73% | -3.75% | -3.52% | -3.78% | -3.02% |
| 1996 | 1,224,121 | 440,816 | 149,425 | 291,391 | 23.79% | 0.84% | 2.55% | 0.19% | -0.56% | -2.05% | -2.53% | -0.85% | -0.83% | -1.36% |
| 1997 | 914,410 | 637,637 | 155,031 | 482,606 | 52.78% | 36.18% | 8.64% | 5.95% | 4.14% | 4.14% | 2.43% | 1.63% | 2.84% | 2.85% |
| 1998 | 831,318 | 18,885 | 241,920 | (223,035) | -26.83% | 14.87% | 18.55% | 4.38% | 5.37% | 2.98% | 1.84% | 0.41% | -0.19% | 1.05% |
| 1999 | 1,315,619 | 36,091 | 156,238 | (120,147) | -9.13% | -15.98% | 4.55% | 10.05% | 2.22% | 3.23% | 1.46% | 0.69% | -0.53% | -1.01% |
| 2000 | 1,639,005 | (1,744) | 190,275 | (192,019) | -11.72% | -10.57% | -14.14% | -1.12% | 4.03% | -0.10% | 0.92% | -0.32% | -0.75% | -1.76% |
| 2001 | 39,440 | (3,176) | 17,727 | (20,903) | -53.00% | -12.69% | -11.12% | -14.54% | -1.55% | 3.65% | -0.31% | 0.72% | -0.49% | -0.89% |
| 2002 | 1,859,766 | | 0 | 0 | 0.00% | -1.10% | -6.02% | -6.88% | -9.78% | -1.11% | 2.78% | -0.26% | 0.61% | -0.42% |
| 2003 | 1,085,106 | (1,209) | 381,872 | (383,081) | -35.30% | -13.01% | -13.54% | -12.89% | -12.06% | -13.87% | -5.94% | -1.86% | -3.22% | -2.26% |
| 2004 | 542,834 | | 41,245 | (41,245) | -7.60% | -2.97% | -12.1% | -12.62% | -12.34% | -11.69% | -13.41% | -6.05% | -2.19% | -3.59% |
| 2005 | 2,000,659 | 4,383 | 52,568 | (48,185) | -2.41% | -3.52% | -13.02% | -8.61% | -8.93% | -9.56% | -11.04% | -5.34% | -2.23% | -2.23% |
| 2006 | 3,692,015 | 550 | 130,120 | (129,570) | -3.51% | -3.12% | -3.12% | -8.22% | -6.56% | -6.76% | -7.51% | -7.68% | -8.91% | -4.85% |
| 2007 | 1,694,619 | 7,351 | 460,554 | (453,203) | -26.74% | -10.82% | -8.54% | -8.48% | -11.71% | -9.70% | -9.86% | -10.10% | -10.01% | -10.96% |
| 2008 | 5,601,754 | 6,241 | 479,200 | (472,959) | -8.44% | -12.69% | -9.61% | -8.50% | -8.46% | -10.46% | -9.28% | -9.36% | -9.59% | -9.56% |
| 2009 | 4,134,752 | 171,442 | 1,930,047 | (1,758,605) | -42.53% | -22.92% | -23.49% | -18.61% | -16.72% | -16.44% | -17.53% | -15.95% | -16.02% | -15.70% |
| 2010 | 3,712,372 | 274,770 | 1,252,152 | (977,382) | -26.33% | -22.93% | -23.86% | -24.18% | -20.13% | -18.43% | -18.53% | -18.98% | -17.53% | -17.59% |
| 2011 | 1,981,645 | 535,803 | 482,560 | (482,560) | -24.55% | -25.65% | -27.75% | -23.92% | -21.87% | -20.53% | -18.94% | -18.69% | -18.94% | -18.94% |
| 2012 | 4,500,809.00 | 220,390 | 887,873 | (667,483) | -14.83% | -17.14% | -20.87% | -27.12% | -21.87% | -22.25% | -19.57% | -18.77% | -18.06% | -18.70% |
| 2013 | 12,886,849.00 | 124,426 | 1,958,717 | (1,834,291) | -14.23% | -14.39% | -15.41% | -17.16% | -21.02% | -18.87% | -19.26% | -17.74% | -16.97% | -16.85% |
| 2014 | 611,451.00 | 722,177 | 425,055 | 297,122 | 48.59% | -11.39% | -12.25% | -13.45% | -15.47% | -19.49% | -17.64% | -18.08% | -16.69% | -15.99% |
| 2015 | 3,507,159.00 | 11,006 | 739,545 | (728,539) | -20.77% | -10.47% | -13.32% | -13.64% | -14.54% | -16.15% | -19.63% | -17.94% | -18.32% | -17.03% |
| 2016 | 718,155.00 | 76,216 | 905,860 | (829,644) | -115.52% | -36.88% | -26.07% | -17.46% | -16.93% | -17.54% | -18.71% | -21.78% | -19.80% | -20.10% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Transmission Towers & Fixtures Account 354 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 5,137 | 1,126 | 1,198 | (72) | -1.40% | | | | | | | | | | |
| 1951 | 4,469 | 1,211 | 1,883 | (672) | -15.04% | -7.75% | | | | | | | | | |
| 1952 | 17,453 | 3,625 | 6,653 | (3,028) | -17.35% | -16.88% | -13.94% | | | | | | | | |
| 1953 | 95,405 | 25 | 1,152 | (1,127) | -1.18% | -3.68% | -4.11% | -4.00% | | | | | | | |
| 1954 | 28,378 | 6,829 | 22,713 | (15,884) | -55.97% | -13.74% | -14.19% | -14.21% | -13.78% | | | | | | |
| 1955 | 48,056 | 11,358 | 3,906 | 7,452 | 15.51% | -11.03% | -5.56% | -6.65% | -6.84% | -6.70% | | | | | |
| 1956 | 75,376 | 20,286 | 10,283 | 10,003 | 13.27% | 14.14% | 1.03% | 0.18% | 0.98% | -1.21% | | | | | |
| 1957 | 15,608 | (4,253) | 3,233 | (7,486) | -47.96% | 2.77% | 7.17% | -3.53% | -2.68% | -3.59% | -3.77% | -3.73% | | | |
| 1958 | 4,259 | 142 | 473 | (331) | -7.77% | -39.35% | 2.30% | 6.73% | -3.64% | -2.76% | -3.66% | -3.83% | -3.79% | | |
| 1959 | 27,921 | 2,034 | 4,693 | (2,659) | -9.52% | -2.82% | -2.92% | -3.09% | -4.08% | -4.08% | -3.40% | -4.18% | -4.33% | -4.29% | |
| 1960 | 139,212 | 8,729 | 11,417 | (2,688) | -1.93% | -3.20% | -3.31% | -7.04% | -1.20% | 1.38% | -3.42% | -2.93% | -3.49% | -3.60% | |
| 1961 | 80 | 9,850 | 116 | 9,734 | 12167.50% | 5.06% | 2.62% | 2.37% | -1.83% | 2.50% | 4.52% | -0.55% | -0.69% | -1.33% | |
| 1962 | 65,157 | 5,507 | 6,346 | (839) | -1.29% | 13.63% | 3.04% | 1.53% | 1.36% | -1.69% | 1.75% | 3.51% | -0.67% | -0.77% | |
| 1963 | 11,484 | 1,946 | 416 | 1,530 | 13.32% | 0.90% | 13.59% | 3.58% | 2.08% | 1.91% | -1.04% | 2.14% | 3.80% | -0.28% | |
| 1964 | 42,181 | 12,565 | 4,938 | 7,627 | 18.08% | 17.06% | 7.00% | 15.18% | 5.95% | 4.44% | 4.26% | 1.60% | 3.91% | 5.20% | |
| 1965 | 108,461 | 32,823 | 25,965 | 6,858 | 6.32% | 9.62% | 9.88% | 6.68% | 10.96% | 6.06% | 4.96% | 4.82% | 2.83% | 4.44% | |
| 1966 | 66,602 | 11,585 | 23,391 | (11,806) | -17.73% | -2.83% | -1.23% | 1.84% | 1.15% | 4.46% | 2.40% | 1.68% | 1.60% | -0.01% | |
| 1967 | 24,852 | 3,837 | 2,376 | 1,461 | 5.88% | -11.31% | -1.74% | 1.71% | 2.24% | 1.52% | 4.57% | 2.59% | 1.90% | 1.81% | |
| 1968 | | 21,334 | 109 | 21,225 | NA | 91.28% | 11.90% | 8.87% | 10.48% | 10.61% | 8.17% | 11.23% | 7.23% | 6.26% | |
| 1969 | 126,023 | 5,071 | 4,382 | 689 | 0.55% | 17.39% | 15.49% | 5.32% | 5.65% | 7.08% | 7.27% | 6.01% | 8.20% | 5.79% | |
| 1970 | 19,867 | 22,427 | 13,606 | 8,821 | 44.40% | 6.52% | 21.07% | 18.86% | 8.59% | 7.88% | 8.99% | 9.11% | 7.65% | 9.75% | |
| 1971 | 252,127 | 35,726 | 22,723 | 13,003 | 5.16% | 8.02% | 5.66% | 10.99% | 6.82% | 6.73% | 7.48% | 7.58% | 6.78% | | |
| 1972 | 61,161 | (2,185) | 13,532 | (15,717) | -25.70% | -0.87% | 1.83% | 1.48% | 6.10% | 6.09% | 3.21% | 3.72% | 4.59% | 4.73% | |
| 1973 | 149,420 | 42,544 | 17,215 | 25,329 | 16.95% | 4.56% | 4.89% | 6.51% | 5.28% | 8.77% | 8.65% | 6.14% | 6.76% | | |
| 1974 | 49,174 | 18,174 | 4,985 | 4,985 | 10.00% | 19.40% | 18.02% | 8.09% | 6.89% | 10.12% | 10.12% | 7.50% | 7.35% | | |
| 1975 | 23,642 | 14,772 | 17,507 | (2,735) | -11.57% | 14.36% | 16.10% | 7.08% | 6.18% | 7.54% | 6.25% | 9.36% | 9.24% | 6.92% | |
| 1976 | - | 22,717 | 10,400 | 12,317 | NA | 40.53% | 31.27% | 21.64% | 11.43% | 8.48% | 9.76% | 8.06% | 11.17% | 10.98% | |
| 1977 | 169,482 | 70,815 | 29,259 | 41,556 | 24.52% | 31.79% | 26.48% | 26.55% | 22.89% | 16.33% | 12.33% | 13.21% | 11.34% | 13.83% | |
| 1978 | 350,643 | 257,809 | 41,825 | 215,984 | 61.60% | 49.52% | 51.88% | 49.12% | 47.28% | 41.17% | 36.08% | 28.70% | 28.99% | 26.00% | |
| 1979 | 18,201 | 9,958 | 12,121 | (2,163) | -5.79% | 47.44% | 49.73% | 42.15% | 45.51% | 39.90% | 35.02% | 28.01% | 28.31% | | |
| 1980 | 100,524 | 18,387 | 14,219 | 4,168 | 4.15% | 1.89% | 46.44% | 40.63% | 40.62% | 40.62% | 39.67% | 35.73% | 31.65% | 25.97% | |
| 1981 | 29,197 | 1,775 | 5,039 | (3,264) | -11.18% | 0.70% | -0.85% | -0.87% | 38.36% | 40.21% | 37.67% | 34.19% | 30.34% | | |
| 1982 | 5,835 | (33,129) | 9,454 | (42,583) | -729.79% | -130.87% | -30.75% | -28.51% | 34.13% | 31.71% | 33.54% | 32.01% | 31.67% | 29.21% | |
| 1983 | 122,176 | 29,994 | 41,975 | (11,981) | -9.81% | -40.62% | -36.78% | -20.82% | -20.23% | 25.56% | 25.34% | 26.89% | 25.78% | 25.84% | |
| 1984 | - | 19,000 | - | 19,000 | NA | 5.74% | -27.78% | -24.70% | -13.45% | -13.34% | 28.59% | 27.73% | 29.27% | 28.10% | |
| 1985 | 1,470 | 72,266 | 635 | 71,631 | 4872.86% | 6165.37% | 63.61% | 27.86% | 20.67% | 14.26% | 12.55% | 39.93% | 36.66% | 38.20% | |
| 1986 | 771,164 | 304,620 | 126,208 | 178,412 | 23.14% | 32.36% | 34.82% | 28.73% | 23.81% | 22.72% | 20.90% | 20.33% | 30.67% | 30.01% | |
| 1987 | 85,031 | 597,823 | 23,267 | 574,556 | 675.70% | 87.94% | 96.14% | 98.36% | 84.87% | 80.05% | 77.43% | 70.82% | 69.49% | 67.63% | |
| 1988 | 6,013 | (606,158) | 2,157 | (608,315) | -10116.66% | -37.08% | 16.78% | 25.04% | 27.24% | 22.65% | 18.22% | 17.38% | 16.20% | 15.75% | |
| 1989 | 298,129 | 84,516 | 154,395 | (69,879) | -23.44% | -22.29% | -26.63% | 6.44% | 12.60% | 14.24% | 11.95% | 8.59% | 7.87% | | |
| 1990 | 32,696 | 83,803 | 18,930 | 64,873 | 198.41% | -1.51% | -182.08% | -9.19% | 11.71% | 17.69% | 19.28% | 16.58% | 13.29% | 12.76% | |
| 1991 | 9,185 | 4,127 | 3,153 | 974 | 10.60% | 157.22% | -1.19% | -176.97% | -8.77% | 11.70% | 17.63% | 19.21% | 16.54% | 13.27% | |
| 1992 | 7,695 | (71) | 1,568 | (1,639) | -21.30% | -3.94% | 129.51% | -1.63% | -173.58% | -8.99% | 11.49% | 17.39% | 18.95% | 16.32% | |
| 1993 | 1,675 | 2,196 | 3,800 | (1,604) | -95.76% | -34.61% | -12.23% | 122.15% | -2.08% | -173.21% | -9.32% | 11.34% | 17.23% | 18.80% | |
| 1994 | 70,269 | (2,585) | 17,612 | (20,197) | -28.74% | -30.30% | -29.43% | -25.29% | 34.90% | -6.55% | -149.36% | -11.99% | 9.14% | 14.71% | |
| 1995 | 69,321 | 3,601 | 49,139 | (45,538) | -65.69% | -47.09% | -47.67% | -46.31% | -43.00% | -1.64% | -14.93% | -137.65% | -18.41% | 5.30% | |
| 1996 | 58,445 | 1,437 | 27,924 | (26,487) | -45.32% | -56.37% | -46.57% | -46.98% | -46.03% | -43.63% | -11.89% | -18.16% | -127.90% | -20.87% | |
| 1997 | 164,171 | 22,883 | 136,727 | (114,044) | -69.47% | -63.14% | -63.37% | -56.95% | -57.13% | -58.38% | -54.77% | -34.75% | -30.01% | -114.53% | |
| 1998 | 64,321 | 157,833 | 59,740 | 98,093 | 152.51% | -6.98% | -14.79% | -24.69% | -25.36% | -25.64% | -25.56% | -24.81% | -9.54% | -14.88% | |
| 1999 | 79,359 | 80,232 | 130,791 | (50,559) | -63.71% | 33.08% | -21.60% | -25.39% | -31.59% | -31.38% | -31.59% | -31.44% | -30.70% | -17.25% | |
| 2000 | 60,059 | 214,554 | (40,817) | 255,371 | 425.20% | 146.90% | 148.67% | 51.33% | 38.08% | 23.57% | 17.08% | 16.74% | 16.23% | 16.15% | |
| 2001 | - | - | - | 0 | NA | 425.20% | 146.90% | 148.67% | 51.33% | 38.08% | 23.57% | 17.08% | 16.74% | 16.23% | |
| 2002 | - | - | - | 0 | NA | 425.20% | 146.90% | 148.67% | 51.33% | 38.08% | 23.57% | 17.08% | 16.74% | 16.23% | |
| 2003 | 2,106 | - | 8,428 | (8,428) | -400.19% | -400.19% | -397.24% | 138.76% | 143.06% | 48.76% | 48.76% | 35.53% | 21.78% | 15.53% | |
| 2004 | - | - | - | 0 | NA | -400.19% | -400.19% | 397.24% | 138.76% | 48.76% | 48.76% | 35.53% | 21.78% | 15.53% | |
| 2005 | 48,071 | 2,048 | - | 2,048 | 4.26% | 4.26% | -12.71% | -12.71% | -12.71% | 225.87% | 104.66% | 116.78% | 43.65% | 32.74% | |
| 2006 | 33,506 | - | 2,918 | (2,918) | -8.71% | -1.07% | -11.11% | -11.11% | -11.11% | -11.11% | -11.11% | 87.63% | 102.15% | 39.76% | |
| 2007 | 703,227 | 15,884 | 324,292 | (308,408) | -43.86% | -42.26% | -39.41% | -39.41% | -40.37% | -40.37% | -40.37% | -7.36% | -12.19% | -1.49% | |
| 2008 | 234,988 | 34,836 | 101,780 | (66,944) | -28.49% | -40.01% | -38.93% | -36.89% | -37.64% | -37.64% | -37.64% | -11.95% | -15.49% | | |
| 2009 | 105,709 | 1,658 | 150,046 | (148,388) | -140.37% | -63.20% | -50.17% | -48.88% | -46.61% | -46.61% | -47.27% | -47.27% | -23.38% | | |
| 2010 | 173,217 | 9,004 | 455,095 | (446,091) | -257.53% | -213.13% | -128.70% | -79.68% | -77.78% | -74.74% | -74.74% | -75.27% | -75.27% | | |
| 2011 | 69,915 | 69,915 | 23,207 | (46,708) | -66.81% | -127.97% | -127.97% | -68.59% | -68.59% | -70.70% | -68.59% | -68.59% | -68.59% | -68.59% | |
| 2012 | 12,667 | 1,445 | 111,364 | (109,919) | -910.91% | -75.65% | -150.92% | -148.93% | -111.44% | -70.03% | -70.03% | -74.92% | -75.36% | | |
| 2013 | 70,570.00 | 7,996 | 79,968 | (71,972) | -101.99% | -220.11% | -81.61% | -143.41% | -142.87% | -110.64% | -80.08% | -78.56% | -76.10% | | |
| 2014 | 40,284.00 | 180 | 30,660 | (30,480) | -75.66% | -92.42% | -172.77% | -80.95% | -138.29% | -138.63% | -109.02% | -79.97% | -78.49% | -76.09% | |
| 2015 | 10,264.00 | 3,645 | 37,334 | (33,689) | -328.22% | -126.95% | -112.40% | -184.75% | -87.80% | -141.88% | -141.88% | -111.57% | -81.58% | -80.07% | |
| 2016 | - | 0 | - | 0 | NA | -328.22% | -126.95% | -112.40% | -184.75% | -87.80% | -141.88% | -141.63% | -111.57% | -81.58% | |

NA - Not applicable

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Transmission Poles & Fixtures Account 355 1950-2016 | | | | | | | | | | | | | | | |
|---|-----------------------------------|------------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 70,100 | 32,402 | 22,397 | 10,005 | 14.27% | | | | | | | | | | |
| 1951 | 50,082 | 22,546 | 19,593 | 2,953 | 5.90% | 10.78% | | | | | | | | | |
| 1952 | 201,436 | 36,689 | 39,127 | (2,438) | -1.21% | 0.20% | 3.27% | | | | | | | | |
| 1953 | 206,370 | 35,077 | 43,073 | (7,996) | -3.87% | -2.56% | -1.63% | 0.48% | | | | | | | |
| 1954 | 127,421 | 24,869 | 53,065 | (28,196) | -22.13% | -10.84% | -7.22% | -6.10% | -3.92% | | | | | | |
| 1955 | 91,662 | 29,835 | 26,367 | 3,468 | 3.78% | -11.29% | -7.69% | -5.61% | -4.76% | -2.97% | | | | | |
| 1956 | 128,899 | 28,462 | 57,629 | (29,167) | -22.63% | -11.65% | -15.49% | -11.16% | -8.51% | -7.62% | -5.86% | | | | |
| 1957 | 167,895 | 43,254 | 60,301 | (17,047) | -10.15% | -15.57% | -11.00% | -13.75% | -10.93% | -8.81% | -8.05% | -6.55% | | | |
| 1958 | 111,243 | 23,080 | 37,105 | (14,025) | -12.61% | -11.13% | -14.78% | -11.36% | -13.55% | -11.15% | -9.22% | -8.52% | -7.14% | | |
| 1959 | 247,433 | 54,609 | 65,786 | (11,177) | -4.52% | -8.02% | -8.05% | -10.99% | -10.99% | -9.63% | -9.31% | -7.78% | -6.68% | | |
| 1960 | 110,397 | 26,450 | 29,450 | (3,000) | -2.72% | -3.96% | -6.01% | -7.10% | -9.72% | -8.27% | -10.07% | -8.99% | -7.87% | -6.39% | |
| 1961 | 83,212 | 29,390 | 27,880 | 1,510 | 1.81% | -0.77% | -2.87% | -4.83% | -6.07% | -8.59% | -7.38% | -9.14% | -8.29% | -7.32% | |
| 1962 | 223,750 | 60,045 | 74,847 | (14,802) | -6.62% | -4.33% | -3.90% | -4.13% | -5.35% | -6.20% | -8.18% | -7.23% | -8.70% | -8.04% | |
| 1963 | 123,649 | 36,193 | 37,982 | (1,789) | -1.45% | -4.78% | -3.50% | -3.34% | -3.71% | -4.81% | -5.65% | -7.48% | -6.88% | -8.07% | |
| 1964 | 171,286 | 39,546 | 88,834 | (49,288) | -28.78% | -17.32% | -12.70% | -10.69% | -9.46% | -8.18% | -8.64% | -8.85% | -10.15% | -9.27% | |
| 1965 | 239,572 | 59,859 | 91,231 | (31,372) | -13.10% | -19.63% | -15.43% | -12.83% | -11.38% | -10.37% | -9.17% | -9.46% | -9.54% | -10.59% | |
| 1966 | 268,572 | 56,610 | 93,246 | (36,636) | -13.64% | -13.34% | -13.34% | -14.83% | -13.04% | -11.93% | -11.05% | -11.05% | -10.17% | -10.17% | |
| 1967 | 236,404 | 61,635 | 69,071 | (7,436) | -3.15% | -12.69% | -12.82% | -15.80% | -14.10% | -12.77% | -11.87% | -11.18% | -10.21% | -10.36% | |
| 1968 | 68,692 | 22,497 | 800 | 21,697 | 31.59% | -1.88% | -7.39% | -9.07% | -12.50% | -11.26% | -10.48% | -9.76% | -9.25% | -8.59% | |
| 1969 | 79,370 | 19,302 | 29,837 | (10,535) | -13.27% | 7.54% | -4.23% | -8.10% | -9.44% | -12.55% | -11.40% | -10.64% | -9.95% | -9.45% | |
| 1970 | 252,523 | 111,140 | 99,614 | 11,526 | 4.56% | 0.30% | 5.66% | -0.75% | -4.57% | -6.35% | -9.27% | -8.60% | -8.33% | -7.85% | |
| 1971 | 370,127 | 138,795 | 165,556 | (26,761) | -7.23% | -2.45% | -3.67% | -0.53% | -3.13% | -5.34% | -6.57% | -8.32% | -8.32% | -8.13% | |
| 1972 | 267,968 | 84,801 | 98,589 | (13,788) | -5.15% | -6.35% | -3.26% | -4.08% | -1.72% | -3.55% | -5.31% | -6.35% | -8.32% | -7.91% | |
| 1973 | 331,314 | 61,745 | 111,817 | (50,072) | -15.11% | -10.68% | -9.35% | -6.47% | -6.89% | -4.98% | -5.94% | -7.04% | -7.73% | -9.30% | |
| 1974 | 224,263 | 131,581 | 38,655 | 92,926 | 41.44% | -7.03% | -4.44% | 1.08% | 0.33% | 1.68% | 1.68% | -0.04% | -1.78% | -2.94% | |
| 1975 | 100,106 | 204,026 | 127,550 | 76,476 | 76.40% | 52.78% | 18.47% | 11.62% | 6.23% | 5.96% | 5.02% | 6.09% | 3.93% | 1.78% | |
| 1976 | 137,635 | 184,179 | 75,773 | 108,406 | 78.76% | 77.77% | 60.52% | 28.93% | 20.33% | 13.20% | 11.91% | 10.77% | 11.55% | 8.91% | |
| 1977 | 575,616 | 333,652 | 213,369 | 120,283 | 20.90% | 32.06% | 37.52% | 38.54% | 25.55% | 20.53% | 15.41% | 14.20% | 13.27% | 13.79% | |
| 1978 | 330,102 | 256,514 | 40,867 | 12,386 | 3.71% | 17.79% | 25.84% | 30.26% | 32.23% | 22.99% | 19.16% | 14.98% | 13.97% | 13.16% | |
| 1979 | 130,511 | 270,156 | 73,349 | 196,807 | 150.80% | 51.60% | 34.54% | 39.73% | 42.61% | 42.55% | 32.11% | 27.35% | 22.16% | 20.53% | |
| 1980 | 80,479 | 168,944 | 104,321 | 64,623 | 80.30% | 123.91% | 55.87% | 37.84% | 42.33% | 44.85% | 44.48% | 34.14% | 29.31% | 24.00% | |
| 1981 | 1,347,903 | 308,088 | 81,854 | 226,234 | 16.78% | 20.36% | 31.28% | 31.28% | 26.33% | 29.10% | 31.72% | 26.96% | 24.52% | 24.52% | |
| 1982 | 188,625 | 213,387 | 220,081 | (6,694) | -3.55% | 14.29% | 17.57% | 27.52% | 25.12% | 24.20% | 28.89% | 28.61% | 29.59% | 25.29% | |
| 1983 | 284,723 | 100,616 | 186,190 | (85,574) | -30.06% | -19.49% | 7.36% | 10.44% | 19.46% | 18.47% | 18.94% | 21.62% | 23.35% | 24.59% | |
| 1984 | 128,508 | 122,917 | 98,108 | 24,809 | 19.31% | -14.70% | -11.21% | 8.14% | 11.00% | 19.45% | 18.51% | 18.96% | 21.53% | 23.19% | |
| 1985 | 203,768 | 355,866 | 235,581 | 120,285 | 59.03% | 43.67% | 9.65% | 6.56% | 12.96% | 15.38% | 22.86% | 21.57% | 21.46% | 23.77% | |
| 1986 | 334,582 | 1,323,661 | 229,431 | 1,094,230 | 327.04% | 225.60% | 185.85% | 121.25% | 100.60% | 55.19% | 55.98% | 60.57% | 55.31% | 49.82% | |
| 1987 | 249,239 | 354,980 | 119,514 | 235,466 | 94.47% | 227.76% | 184.10% | 160.99% | 115.69% | 99.50% | 58.77% | 63.43% | 58.29% | 63.43% | |
| 1988 | 193,583 | 497,454 | 146,452 | 351,002 | 181.32% | 132.44% | 216.19% | 185.55% | 164.53% | 124.80% | 109.51% | 66.86% | 67.22% | 70.70% | |
| 1989 | 169,113 | 753,487 | 170,878 | 582,609 | 344.51% | 68.02% | 46.91% | 22.30% | 21.08% | 237.22% | 188.33% | 148.56% | 132.19% | 81.97% | |
| 1990 | 143,770 | 1,006,396 | 177,284 | 823,112 | 572.52% | 449.28% | 346.86% | 263.62% | 283.08% | 247.80% | 227.16% | 184.27% | 165.58% | 103.75% | |
| 1991 | 87,872 | 683,749 | 100,947 | 582,802 | 663.24% | 606.93% | 496.19% | 393.64% | 305.25% | 311.44% | 274.22% | 252.53% | 207.71% | 187.62% | |
| 1992 | 711,569 | 103,508 | 311,292 | (207,784) | -29.20% | 46.91% | 127.03% | 160.09% | 163.24% | 152.22% | 183.17% | 171.09% | 162.31% | 140.46% | |
| 1993 | 231,185 | 404,483 | 281,046 | 123,437 | 53.39% | -8.95% | -48.36% | 112.53% | 141.73% | 146.72% | 139.43% | 169.03% | 159.38% | 152.05% | |
| 1994 | 459,243 | 375,526 | 373,995 | 1,531 | 0.33% | 18.10% | -8.91% | 33.56% | 80.99% | 105.71% | 113.04% | 110.98% | 139.00% | 133.15% | |
| 1995 | 416,978 | 204,081 | 423,835 | (219,754) | -52.70% | -24.91% | -8.56% | -16.63% | 14.70% | 53.81% | 75.95% | 84.40% | 85.35% | 112.33% | |
| 1996 | 499,131 | 308,154 | 243,738 | 64,416 | 13.17% | -17.14% | -11.27% | -1.90% | -10.32% | 14.38% | 45.98% | 64.62% | 74.40% | 74.15% | |
| 1997 | 781,592 | 997,904 | 465,262 | 531,642 | 68.02% | 46.91% | 22.30% | 17.60% | 21.08% | 9.58% | 27.58% | 51.17% | 65.38% | 71.47% | |
| 1998 | 2,027,225 | 795,153 | 1,218,497 | (423,344) | -20.88% | 3.86% | 5.24% | -1.27% | -1.09% | 1.77% | -2.54% | 8.70% | 23.86% | 33.69% | |
| 1999 | 930,274 | 1,274,243 | 438,875 | 835,368 | 89.80% | 13.93% | 25.24% | 23.84% | 16.97% | 15.47% | 17.12% | 11.67% | 21.00% | 33.63% | |
| 2000 | 289,043 | 270,031 | 334,971 | (64,940) | -22.47% | 63.19% | 10.69% | 21.81% | 20.88% | 14.66% | 13.44% | 15.08% | 10.11% | 19.04% | |
| 2001 | - | 3,212 | 3,212 | NA | NA | -23.58% | 62.92% | 10.59% | 21.73% | 20.81% | 14.60% | 13.38% | 15.03% | 10.06% | |
| 2002 | 12,905 | 5,879 | - | (5,879) | -45.56% | -70.45% | -24.52% | 61.79% | 10.87% | 21.52% | 20.62% | 14.44% | 13.24% | 14.89% | |
| 2003 | 162,498 | 17,469 | 377,435 | (359,966) | -221.52% | -208.57% | -210.41% | -93.44% | 28.73% | -0.64% | 12.12% | 12.23% | 6.93% | 6.39% | |
| 2004 | 2,241 | - | 1,739 | (1,739) | -77.61% | -77.61% | -204.96% | -206.77% | 26.33% | 28.86% | -0.69% | -2.68% | 6.97% | 6.97% | |
| 2005 | 412,293 | 31,152 | 399,304 | (368,152) | -89.29% | -88.39% | -125.88% | -124.13% | -124.67% | -91.06% | 1.93% | -10.12% | 3.10% | 4.07% | |
| 2006 | 259,110 | 1,912 | 145,405 | (143,492) | -55.38% | -76.21% | -75.68% | -104.03% | -103.15% | -103.52% | -82.94% | -5.25% | -12.99% | 0.00% | |
| 2007 | 1,628,805 | 137,389 | 1,732,775 | (1,595,386) | -97.95% | -92.11% | -91.60% | -91.44% | -100.01% | -99.73% | -99.86% | -91.77% | -46.09% | -37.16% | |
| 2008 | 1,099,496 | ** 191,085 | 2,265,061 | (2,073,976) | -188.63% | -134.49% | -127.63% | -122.98% | -122.85% | -127.35% | -127.05% | -127.14% | -119.32% | -78.76% | |
| 2009 | 1,265,628 | 266,673 | 2,742,996 | (2,476,323) | -195.66% | -192.39% | -153.88% | -147.87% | -142.70% | -142.59% | -145.25% | -144.98% | -145.05% | -138.14% | |
| 2010 | 1,555,659 | 106,822 | 2,089,498 | (1,982,676) | -127.45% | -158.05% | -166.62% | -146.47% | -142.40% | -138.89% | -138.81% | -140.91% | -140.72% | -140.77% | |
| 2011 | 3,743,121 | 1,466,900 | 1,342,736 | (1,342,736) | -35.87% | -62.76% | -68.36% | -102.76% | -101.92% | -100.66% | -100.66% | -102.02% | -102.02% | -102.02% | |
| 2012 | 2,169,800 | 312,346 | 1,707,632 | (1,395,286) | -64.33% | -46.91% | -62.31% | -82.41% | -84.29% | -84.81% | -93.93% | -93.75% | -95.43% | -95.43% | |
| 2013 | 1,667,730.00 | 368,255 | 5,261,059 | (4,892,804) | -293.38% | -163.90% | -100.67% | -105.23% | -116.24% | -123.16% | -120.03% | -118.78% | -117.90% | -117.87% | |
| 2014 | 180,243.00 | 78,812 | 1,201,242 | (1,122,430) | -622.73% | -325.50% | -184.44% | -112.80% | -115.25% | -124.86% | -130.87% | -126.84% | -125.47% | -124.41% | |
| 2015 | 3,955,680.00 | 366,954 | 2,377,568 | (2,010,614) | -50.83% | -75.75% | -138.29% | -118.17% | -91.88% | -96.05% | -104.72% | -110.62% | -109.42% | -108.62% | |
| 2016 | 811,686.00 | 40,463 | 179,993 | (139,530) | -17.19% | -45.10% | -66.14% | -123.43% | -108.84% | -87.04% | -91.50% | -100.09% | -106.01% | -105.28% | |

** Includes retirements not posted until 2012 removal cost posted 2007and 2008

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Transmission Overhead Conductors & Devices Account 356 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 66,825 | 51,664 | 18,824 | 32,840 | 49.14% | | | | | | | | | | |
| 1951 | 84,714 | 33,273 | 21,542 | 11,731 | 13.85% | 29.41% | | | | | | | | | |
| 1952 | 93,134 | 60,409 | 32,050 | 28,359 | 30.45% | 22.54% | 29.81% | | | | | | | | |
| 1953 | 348,127 | 168,272 | 43,587 | 124,685 | 35.82% | 34.68% | 31.33% | 33.34% | | | | | | | |
| 1954 | 130,287 | 177,443 | 55,960 | 121,483 | 93.24% | 51.46% | 48.03% | 43.62% | 44.13% | | | | | | |
| 1955 | 99,963 | 53,912 | 12,266 | 41,646 | 41.66% | 70.85% | 49.76% | 47.08% | 54.99% | 43.83% | | | | | |
| 1956 | 192,894 | 187,331 | 51,025 | 136,306 | 70.66% | 60.76% | 70.76% | 54.99% | 52.35% | 48.91% | 48.92% | | | | |
| 1957 | 175,856 | 120,104 | 39,717 | 80,387 | 45.71% | 58.76% | 55.12% | 63.41% | 53.27% | 51.22% | 48.41% | 48.45% | | | |
| 1958 | 139,213 | 67,143 | 33,274 | 33,869 | 24.33% | 36.26% | 49.33% | 48.07% | 56.04% | 49.56% | 48.05% | 45.76% | 45.93% | | |
| 1959 | 267,860 | 147,854 | 46,604 | 101,250 | 37.80% | 37.80% | 36.83% | 44.93% | 44.93% | 44.93% | 47.23% | 46.15% | 44.37% | 44.57% | |
| 1960 | 155,789 | 106,235 | 26,450 | 79,785 | 51.21% | 42.73% | 38.18% | 39.97% | 46.33% | 45.88% | 51.19% | 47.64% | 46.64% | 45.00% | |
| 1961 | 103,733 | 70,900 | 31,932 | 38,968 | 37.57% | 45.76% | 41.72% | 38.08% | 39.68% | 45.45% | 45.12% | 50.07% | 47.00% | 46.09% | |
| 1962 | 256,965 | 133,567 | 75,527 | 58,040 | 22.59% | 26.89% | 34.23% | 35.45% | 33.77% | 35.68% | 40.90% | 40.96% | 45.43% | 43.64% | |
| 1963 | 118,219 | 64,060 | 35,581 | 28,479 | 24.09% | 23.06% | 26.20% | 32.34% | 33.96% | 32.67% | 34.56% | 39.49% | 39.64% | 43.89% | |
| 1964 | 183,379 | 71,468 | 53,360 | 18,108 | 9.87% | 15.45% | 18.73% | 21.68% | 27.31% | 29.89% | 29.26% | 31.33% | 36.09% | 36.42% | |
| 1965 | 213,562 | 104,613 | 60,847 | 43,766 | 20.49% | 15.99% | 17.54% | 19.22% | 21.39% | 25.90% | 28.35% | 27.96% | 29.89% | 34.24% | |
| 1966 | 295,258 | 151,009 | 63,481 | 67,528 | 22.87% | 21.87% | 18.69% | 19.48% | 20.23% | 21.70% | 25.22% | 27.09% | 28.81% | 28.81% | |
| 1967 | 188,886 | 92,577 | 48,030 | 44,547 | 23.58% | 23.15% | 22.94% | 19.74% | 20.26% | 20.73% | 22.02% | 26.94% | 26.75% | 26.75% | |
| 1968 | 92,881 | 46,343 | 655 | 45,688 | 49.19% | 32.02% | 27.34% | 25.49% | 22.55% | 22.72% | 22.69% | 23.75% | 26.41% | 28.04% | |
| 1969 | 85,761 | 55,659 | 33,591 | 22,068 | 25.73% | 37.93% | 30.56% | 27.13% | 25.51% | 22.81% | 22.94% | 22.87% | 23.86% | 26.38% | |
| 1970 | 266,406 | 151,399 | 81,777 | 69,622 | 26.13% | 26.04% | 30.87% | 28.70% | 26.85% | 25.66% | 23.48% | 23.53% | 23.38% | 24.20% | |
| 1971 | 494,579 | 189,987 | 136,339 | 53,648 | 10.85% | 16.20% | 17.16% | 20.33% | 20.87% | 21.29% | 21.18% | 20.05% | 20.29% | 20.56% | |
| 1972 | 264,526 | 93,323 | 81,191 | 12,132 | 4.59% | 8.67% | 13.20% | 14.17% | 16.87% | 17.78% | 18.67% | 18.88% | 18.08% | 18.41% | |
| 1973 | 179,397 | 176,504 | 103,292 | 73,212 | 7.36% | 5.71% | 8.42% | 12.33% | 13.22% | 15.64% | 16.53% | 17.59% | 17.24% | 17.24% | |
| 1974 | 196,988 | 146,343 | 119,932 | 26,411 | 13.43% | 11.91% | 11.91% | 17.22% | 18.33% | 19.33% | 21.35% | 21.35% | 21.47% | 21.47% | |
| 1975 | 134,395 | 240,271 | 105,041 | 135,230 | 100.62% | 76.06% | 51.94% | 35.78% | 26.07% | 26.08% | 26.06% | 27.31% | 26.94% | 26.40% | |
| 1976 | 106,926 | 145,175 | 62,401 | 82,774 | 77.41% | 90.34% | 76.39% | 56.35% | 40.87% | 30.06% | 29.42% | 29.24% | 30.26% | 29.63% | |
| 1977 | 611,357 | 494,298 | 175,552 | 318,746 | 52.14% | 55.90% | 62.95% | 62.27% | 54.25% | 45.46% | 36.85% | 35.58% | 35.22% | 35.75% | |
| 1978 | 343,077 | 364,284 | 152,650 | 211,634 | 61.69% | 55.57% | 57.77% | 62.59% | 62.12% | 55.87% | 48.49% | 40.50% | 39.03% | 38.60% | |
| 1979 | 74,994 | 266,280 | 64,971 | 201,309 | 268.43% | 98.77% | 71.06% | 71.67% | 74.73% | 72.66% | 65.55% | 57.12% | 47.61% | 45.47% | |
| 1980 | 93,579 | 84,918 | 85,311 | (393) | -0.42% | -119.19% | 80.63% | 65.12% | 66.19% | 69.58% | 68.29% | 62.01% | 54.43% | 45.81% | |
| 1981 | 1,689,484 | 247,910 | 30,473 | 217,437 | 12.87% | 12.87% | 22.62% | 28.62% | 33.73% | 35.33% | 38.21% | 33.49% | 37.30% | 35.43% | |
| 1982 | 139,903 | 758,104 | 927,671 | (169,567) | -121.20% | 2.62% | 2.47% | 12.45% | 19.67% | 26.39% | 28.17% | 31.22% | 32.85% | 31.57% | |
| 1983 | 328,391 | 120,578 | 241,973 | (121,395) | -36.97% | -62.13% | -3.41% | -3.28% | 5.48% | 12.70% | 20.05% | 21.86% | 24.87% | 26.69% | |
| 1984 | 170,389 | 27,135 | 124,969 | (97,834) | -57.42% | -43.95% | -60.87% | -7.36% | -7.09% | 1.18% | 8.49% | 16.22% | 18.06% | 21.07% | |
| 1985 | 191,637 | 238,772 | 160,619 | 78,153 | 40.78% | -5.44% | -20.43% | -37.41% | -3.70% | -3.58% | 4.01% | 10.53% | 17.52% | 19.22% | |
| 1986 | 623,823 | 561,713 | 222,874 | 338,839 | 54.32% | 51.14% | 32.37% | 15.05% | 1.94% | 7.81% | 7.58% | 13.48% | 18.01% | 22.90% | |
| 1987 | 389,119 | 215,415 | 154,512 | 60,903 | 15.65% | 39.46% | 39.67% | 27.64% | 15.19% | 4.83% | 8.68% | 8.44% | 13.71% | 17.78% | |
| 1988 | 243,975 | 325,768 | 163,428 | 162,340 | 66.54% | 35.26% | 44.72% | 44.20% | 33.50% | 21.62% | 12.05% | 12.41% | 12.10% | 16.98% | |
| 1989 | 413,472 | 397,933 | 367,640 | 30,293 | 7.33% | 29.30% | 24.23% | 35.46% | 36.01% | 28.18% | 19.12% | 11.27% | 11.64% | 11.64% | |
| 1990 | 162,316 | 196,148 | 197,065 | (917) | -0.56% | 5.10% | 20.90% | 32.27% | 30.90% | 32.27% | 26.05% | 17.85% | 10.54% | 11.45% | |
| 1991 | 86,293 | 485,828 | 83,157 | 402,671 | 466.63% | 161.60% | 65.26% | 65.60% | 50.59% | 51.80% | 50.80% | 42.72% | 32.69% | 24.86% | |
| 1992 | 1,222,511 | 292,579 | 476,128 | (183,549) | -15.01% | 16.74% | 14.83% | 13.19% | 19.30% | 18.74% | 25.80% | 26.66% | 22.57% | 17.47% | |
| 1993 | 288,459 | 221,104 | 359,990 | (138,886) | -48.15% | -21.34% | 5.02% | 4.51% | 5.04% | 11.25% | 11.86% | 19.58% | 20.70% | 17.19% | |
| 1994 | 411,416 | 118,412 | 395,767 | (277,355) | -67.41% | -59.47% | -31.20% | -9.81% | -9.81% | -6.49% | -0.19% | 1.72% | 10.27% | 11.72% | |
| 1995 | 917,726 | 335,547 | 518,325 | (182,778) | -19.92% | -34.62% | -37.03% | -27.55% | -12.98% | -12.33% | -10.01% | -5.02% | -3.08% | 4.45% | |
| 1996 | 1,007,769 | 367,203 | 675,241 | (308,038) | -30.57% | -25.49% | -32.67% | -34.55% | -28.34% | -17.49% | -16.82% | -14.60% | -10.44% | -8.46% | |
| 1997 | 859,056 | 808,761 | 494,959 | 313,802 | 36.53% | 0.31% | -6.83% | -14.22% | -17.03% | -16.50% | -7.81% | -5.27% | -6.42% | -3.25% | |
| 1998 | 1,165,034 | 498,655 | 801,651 | (302,996) | -26.01% | 0.53% | -9.80% | -12.15% | -17.37% | -19.28% | -18.39% | -11.36% | -11.08% | -9.91% | |
| 1999 | 701,725 | 877,112 | 529,973 | 347,139 | 49.47% | 2.36% | 13.13% | 1.34% | -2.86% | -8.10% | -10.26% | -11.15% | -4.95% | -4.85% | |
| 2000 | 243,948 | 263,013 | 209,472 | 53,541 | 21.95% | 42.37% | 4.63% | 13.86% | 2.60% | -1.62% | -6.72% | -8.86% | -9.96% | -4.00% | |
| 2001 | - | - | 0 | 0 | NA | 21.95% | 42.37% | 4.63% | 13.86% | 2.60% | -1.62% | -8.86% | -9.96% | -4.00% | |
| 2002 | 5,128 | - | 5,403 | (5,403) | -105.37% | -105.37% | 19.33% | 41.57% | 4.36% | 13.65% | 2.46% | -1.73% | -6.82% | -8.95% | |
| 2003 | 220,143 | 30,977 | 234,143 | (203,167) | -92.29% | -92.59% | -92.59% | -33.04% | 16.41% | -4.75% | 6.35% | -2.50% | -10.22% | -10.22% | |
| 2004 | - | - | 137,278 | (137,278) | NA | -154.65% | -154.65% | -154.65% | -62.30% | -4.68% | -10.62% | 2.05% | -5.77% | -8.30% | |
| 2005 | 429,863 | 12,429 | 646,727 | (634,298) | -147.56% | -179.49% | -149.96% | -149.61% | -149.61% | -103.06% | -36.20% | -31.91% | -15.69% | -18.92% | |
| 2006 | 288,470 | - | 309,266 | (107,211) | -31.35% | -150.47% | -136.82% | -136.82% | -136.82% | -104.07% | -104.07% | -47.04% | -39.02% | -22.43% | |
| 2007 | 1,593,569 | 221,414 | 1,896,807 | (1,675,393) | -105.13% | -105.45% | -113.28% | -119.22% | -116.88% | -116.85% | -116.85% | -104.68% | -73.62% | -61.69% | |
| 2008 | 1,389,790 | 341,108 | 1,389,569 | (1,048,461) | -75.44% | -91.30% | -92.70% | -99.07% | -102.78% | -102.19% | -102.20% | -94.94% | -74.14% | -74.14% | |
| 2009 | 2,037,880 | 376,190 | 1,075,084 | (698,894) | -34.30% | -50.98% | -68.17% | -70.29% | -70.07% | -78.47% | -78.98% | -79.00% | -79.00% | -75.03% | |
| 2010 | 4,956,065 | 130,964 | 958,424 | (827,359) | -16.69% | -21.82% | -30.71% | -42.60% | -44.41% | -48.56% | -49.84% | -50.72% | -50.72% | -50.72% | |
| 2011 | 6,369,157 | 307,363 | 3,916,005 | (199,642) | -3.13% | -9.07% | -12.92% | -16.81% | -27.22% | -28.61% | -31.97% | -32.61% | -33.17% | -33.17% | |
| 2012 | 733,460 | 38,688 | 330,222 | (291,534) | -39.62% | -6.82% | -10.93% | -14.22% | -19.80% | -27.76% | -29.08% | -31.94% | -32.71% | -33.44% | |
| 2013 | 4,677,654.00 | 436,936 | 3,140,476 | (2,703,540) | -57.80% | -55.35% | -27.12% | -24.03% | -25.15% | -28.61% | -34.22% | -37.32% | -37.93% | -37.93% | |
| 2014 | 591,007.00 | 103,338 | 1,190,684 | (1,087,346) | -183.98% | -17.95% | -68.02% | -34.61% | -29.49% | -29.99% | -33.04% | -38.18% | -39.06% | -41.08% | |
| 2015 | 2,428,649.00 | 391,777 | 2,051,275 | (1,659,498) | -68.33% | -90.97% | -70.81% | -68.11% | -40.15% | -34.26% | -34.27% | -36.73% | -41.13% | -41.89% | |
| 2016 | 435.00 | 62,207 | 197,930 | (135,723) | -31200.69% | -73.91% | -95.45% | -72.57% | -69.71% | -41.06% | -34.95% | -34.89% | -37.32% | -41.68% | |

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Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Transmission Underground Conduit Account 357 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | - | 11 | - | 11 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1953 | - | 302 | 51 | 251 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1958 | - | 882 | 1,363 | (481) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1963 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1970 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1972 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1973 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1975 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1976 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1977 | 236 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1978 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1979 | - | 78,366 | - | 78,366 | NA | NA | 33205.93% | 33205.93% | 33205.93% | 33205.93% | 33205.93% | 33205.93% | 33205.93% | 33205.93% | |
| 1980 | 46,030 | 123,082 | 7,690 | 115,392 | 250.69% | 420.94% | 418.79% | 418.79% | 418.79% | 418.79% | 418.79% | 418.79% | 418.79% | 418.79% | |
| 1981 | - | 494,201 | - | 494,201 | NA | 1324.34% | 1494.59% | 1494.59% | 1486.96% | 1486.96% | 1486.96% | 1486.96% | 1486.96% | 1486.96% | |
| 1982 | - | (68) | - | (68) | NA | NA | 1324.19% | 1494.44% | 1494.44% | 1486.82% | 1486.82% | 1486.82% | 1486.82% | 1486.82% | |
| 1983 | 117,534 | 118,874 | 3,186 | 115,688 | 98.43% | 98.37% | 518.85% | 443.38% | 491.29% | 491.29% | 490.59% | 490.59% | 490.59% | 490.59% | |
| 1984 | - | (7,504) | - | (7,504) | NA | 92.04% | 91.99% | 512.46% | 438.79% | 486.71% | 486.71% | 486.00% | 486.00% | 486.00% | |
| 1985 | 9,155 | (44,834) | 3,000 | (47,834) | -522.49% | -604.46% | 47.64% | 47.58% | 437.67% | 387.84% | 433.21% | 433.21% | 432.62% | 432.62% | |
| 1986 | 16,478 | (80,601) | 5,820 | (86,421) | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | 326.93% | 308.38% | 349.80% | 349.80% | 349.37% | |
| 1987 | - | - | - | 0 | NA | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | 326.93% | 308.38% | 349.80% | 349.80% | |
| 1988 | - | - | - | 0 | NA | NA | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | 326.93% | 308.38% | 349.80% | |
| 1989 | - | - | - | 0 | NA | NA | NA | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | 326.93% | 308.38% | |
| 1990 | - | - | - | 0 | NA | NA | NA | NA | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | 326.93% | |
| 1991 | - | - | - | 0 | NA | NA | NA | NA | NA | -524.46% | -523.76% | -553.03% | -18.21% | -18.26% | |
| 1992 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -524.46% | -523.76% | -553.03% | -18.21% | |
| 1993 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -524.46% | -523.76% | -553.03% | |
| 1994 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | -524.46% | -523.76% | |
| 1995 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | -524.46% | |
| 1996 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1997 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1998 | 105,702 | 1 | 4,183 | (4,182) | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 1999 | - | - | - | 0 | NA | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2000 | - | - | - | 0 | NA | NA | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2001 | - | - | - | 0 | NA | NA | NA | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | NA | -3.96% | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -3.96% | -3.96% | -3.96% | -3.96% | |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -3.96% | -3.96% | -3.96% | |
| 2006 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | -3.96% | -3.96% | |
| 2007 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | -3.96% | |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | 14,529 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2011 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2012 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2015 | - | - | 16,825 | (16,825) | NA | NA | NA | NA | NA | NA | -115.80% | -115.80% | -115.80% | -115.80% | |
| 2016 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -115.80% | -115.80% | -115.80% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Transmission Underground Conductor & Devices Account 358 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | - | 3 | 12 | (9) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1952 | - | 1,588 | 401 | 1,187 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1953 | - | - | (2) | 2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1954 | - | 1 | - | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1957 | - | 528 | 155 | 373 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1958 | - | 1,887 | 3,293 | (1,406) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1963 | - | 7 | 31 | (24) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1970 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1972 | 235 | - | 31 | (31) | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -23.40% | |
| 1973 | - | - | - | 0 | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | -13.19% | |
| 1974 | 194 | 124 | 122 | 2 | 1.03% | 1.03% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | |
| 1975 | - | - | - | 0 | NA | 1.03% | 1.03% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | -6.76% | |
| 1976 | - | 256 | - | 256 | NA | NA | 132.99% | 132.99% | 52.91% | 52.91% | 52.91% | 52.91% | 52.91% | 52.91% | |
| 1977 | 9,333 | 64 | 254 | (190) | -2.04% | 0.71% | 0.71% | 0.71% | 0.71% | 0.38% | 0.38% | 0.38% | 0.38% | 0.38% | |
| 1978 | - | - | - | 0 | NA | -2.04% | 0.71% | 0.71% | 0.71% | 0.71% | 0.38% | 0.38% | 0.38% | 0.38% | |
| 1979 | - | 78,366 | - | 78,366 | NA | NA | 837.63% | 840.37% | 840.37% | 823.28% | 823.28% | 803.14% | 803.14% | 803.14% | |
| 1980 | 29,359 | 129,405 | 4,905 | 124,500 | 424.06% | 690.98% | 523.82% | 524.48% | 524.48% | 521.87% | 521.87% | 518.65% | 518.65% | 518.65% | |
| 1981 | - | 494,201 | - | 494,201 | NA | 2107.36% | 2374.29% | 2374.29% | 1801.09% | 1801.75% | 1801.75% | 1792.77% | 1792.77% | 1781.92% | |
| 1982 | - | (71) | - | (71) | NA | NA | 2107.12% | 2374.05% | 2374.05% | 1800.90% | 1801.57% | 1801.57% | 1792.58% | 1792.58% | |
| 1983 | 109,217 | 118,874 | 3,186 | 115,688 | 105.92% | 105.86% | 558.35% | 529.90% | 586.45% | 586.45% | 549.32% | 549.49% | 549.49% | 548.77% | |
| 1984 | - | 670,436 | - | 670,436 | NA | 719.78% | 719.72% | 1172.21% | 1013.71% | 1070.26% | 1070.26% | 1002.60% | 1002.77% | 1002.77% | |
| 1985 | - | (54,902) | - | (54,902) | NA | NA | 669.51% | 669.45% | 1121.94% | 974.09% | 1030.64% | 1030.64% | 965.48% | 965.65% | |
| 1986 | 22,182 | 896,968 | 19,888 | 877,080 | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | 1385.27% | 1434.02% | 1434.02% | 1355.22% | |
| 1987 | - | - | - | 0 | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | 1385.27% | 1434.02% | 1434.02% | |
| 1988 | - | - | - | 0 | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | 1385.27% | 1434.02% | |
| 1989 | - | - | - | 0 | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | 1385.27% | |
| 1990 | - | - | - | 0 | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | 1385.27% | |
| 1991 | - | - | - | 0 | NA | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | 1600.04% | |
| 1992 | - | - | - | 0 | NA | NA | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | 1223.93% | |
| 1993 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | 1223.98% | |
| 1994 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | 3954.02% | 3706.51% | 6728.94% | |
| 1995 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 3954.02% | 3706.51% | |
| 1996 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3954.02% | |
| 1997 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1998 | 640,008 | 72,657 | 99,359 | (26,702) | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 1999 | - | - | - | 0 | NA | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2000 | - | - | - | 0 | NA | NA | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2001 | - | - | - | 0 | NA | NA | NA | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | NA | -4.17% | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -4.17% | -4.17% | -4.17% | -4.17% | |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -4.17% | -4.17% | -4.17% | |
| 2006 | - | - | 521 | (521) | NA | NA | NA | NA | NA | NA | NA | NA | -4.25% | -4.25% | |
| 2007 | - | - | (10,495) | 10,495 | NA | NA | NA | NA | NA | NA | NA | NA | NA | -2.61% | |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | 393,655 | - | 58,795 | (58,795) | -14.94% | -14.94% | -12.27% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | |
| 2010 | - | - | - | 0 | NA | -14.94% | -14.94% | -12.27% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | |
| 2011 | - | - | - | 0 | NA | NA | -14.94% | -14.94% | -12.27% | -12.40% | -12.40% | -12.40% | -12.40% | -12.40% | |
| 2012 | - | - | - | 0 | NA | NA | NA | -14.94% | -14.94% | -12.27% | -12.40% | -12.40% | -12.40% | -12.40% | |
| 2013 | 0.00 | 0 | - | 0 | NA | NA | NA | NA | -14.94% | -14.94% | -12.27% | -12.40% | -12.40% | -12.40% | |
| 2014 | 12,708.00 | 0 | 16,820 | (16,820) | -132.36% | -132.36% | -132.36% | -132.36% | -132.36% | -18.61% | -18.61% | -16.03% | -16.15% | -16.15% | |
| 2015 | 0.00 | 0 | - | 0 | NA | -132.36% | -132.36% | -132.36% | -132.36% | -132.36% | -18.61% | -16.03% | -16.15% | -16.15% | |
| 2016 | - | 0 | - | 0 | NA | NA | -132.36% | -132.36% | -132.36% | -132.36% | -132.36% | -18.61% | -16.03% | -16.03% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Structures & Improvements Account 361 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 4,668 | 1,727 | 805 | 922 | 19.75% | | | | | | | | | | |
| 1951 | 15,211 | 1,144 | 1,317 | (173) | -1.14% | 3.77% | | | | | | | | | |
| 1952 | 4,097 | 334 | 1,128 | (794) | -19.38% | -5.01% | -0.19% | | | | | | | | |
| 1953 | 4,717 | 1,146 | 987 | 159 | 3.37% | -7.20% | -3.36% | 0.40% | | | | | | | |
| 1954 | 8,964 | 392 | 520 | (128) | -1.43% | 0.23% | -4.29% | -2.84% | -0.04% | | | | | | |
| 1955 | 10,152 | 1,415 | 1,094 | 321 | 3.16% | 1.01% | 1.48% | -1.58% | -1.43% | 0.64% | | | | | |
| 1956 | 16,258 | 3,047 | 8,223 | (5,176) | -31.84% | -18.38% | -14.09% | -12.03% | -12.71% | -9.75% | -7.60% | | | | |
| 1957 | 24,758 | 2,062 | 10,512 | (8,450) | -34.13% | -33.22% | -26.00% | -22.34% | -20.47% | -20.40% | -16.92% | -14.99% | | | |
| 1958 | 17,385 | 1,911 | 3,197 | (1,286) | -7.40% | -23.10% | -25.53% | -21.28% | -18.99% | -17.71% | -17.79% | -15.29% | -13.75% | | |
| 1959 | 40,574 | 6,894 | 3,832 | 3,062 | 7.55% | -2.72% | -8.31% | -21.77% | -10.75% | -10.04% | -9.53% | -9.84% | -9.91% | | |
| 1960 | 33,009 | 4,751 | 12,367 | (7,616) | -23.07% | -6.46% | -6.64% | -12.52% | -14.90% | -12.52% | -12.89% | -12.40% | -12.57% | -8.00% | |
| 1961 | 50,827 | 4,555 | 4,758 | (203) | -0.40% | -9.33% | -3.98% | -4.40% | -8.82% | -10.87% | -10.13% | -9.74% | -9.44% | | |
| 1962 | 43,137 | 2,904 | 20,442 | (17,538) | -40.66% | -18.88% | -19.97% | -13.43% | -12.86% | -15.37% | -16.56% | -15.71% | -15.19% | -14.83% | |
| 1963 | 23,349 | 5,100 | 11,302 | (6,202) | -26.56% | -36.71% | -20.41% | -20.99% | -15.03% | -14.40% | -16.49% | -17.49% | -16.68% | -16.18% | |
| 1964 | 44,172 | 2,864 | 16,446 | (13,582) | -30.75% | -29.30% | -33.73% | -23.24% | -23.21% | -17.99% | -17.26% | -18.73% | -19.49% | | |
| 1965 | 93,971 | 6,463 | 17,707 | (11,244) | -11.97% | -17.97% | -19.21% | -23.73% | -19.09% | -19.55% | -16.27% | -15.82% | -17.04% | -17.66% | |
| 1966 | 44,516 | 14,397 | 24,947 | (10,550) | -23.70% | -15.74% | -19.37% | -20.18% | -23.70% | -19.77% | -20.10% | -17.15% | -16.72% | -17.76% | |
| 1967 | 47,082 | 5,000 | 7,962 | (2,962) | -6.29% | -14.75% | -13.34% | -16.89% | -16.60% | -20.98% | -17.95% | -18.39% | -15.94% | -15.60% | |
| 1968 | 100,728 | 24,978 | 10,696 | 14,282 | 14.18% | 7.66% | 0.40% | -3.66% | -7.28% | -8.55% | -12.04% | -10.72% | -11.57% | -10.12% | |
| 1969 | 45,723 | 34,090 | 15,429 | 18,661 | 40.81% | 22.49% | 15.49% | 8.16% | 2.47% | -1.43% | -2.90% | -6.58% | -5.94% | -7.02% | |
| 1970 | 79,325 | 28,343 | 14,637 | 13,706 | 17.28% | 25.88% | 20.66% | 16.01% | 10.44% | 5.32% | 1.82% | 0.44% | -2.96% | -2.73% | |
| 1971 | 90,785 | 46,189 | 25,069 | 21,120 | 23.26% | 20.47% | 24.78% | 21.41% | 17.82% | 13.29% | 8.57% | 4.08% | 5.93% | 4.08% | |
| 1972 | 79,179 | 12,811 | 1,679 | 11,132 | 12.12% | 13.41% | 14.64% | 18.70% | 17.55% | 15.01% | 11.48% | 7.69% | 4.97% | 3.84% | |
| 1973 | 79,903 | 56 | 20,568 | (20,512) | -25.67% | -11.84% | 0.92% | 4.88% | 9.24% | 10.29% | 8.80% | 6.24% | 3.66% | 1.50% | |
| 1974 | 98,153 | 10,602 | 18,608 | (8,006) | -8.16% | -12.22% | -13.14% | -14.84% | -14.87% | -14.87% | -14.87% | -14.87% | -14.87% | -14.87% | |
| 1975 | 8,604 | 1,440 | 3,841 | (2,401) | -27.91% | -9.75% | -16.56% | -11.00% | -2.28% | 1.28% | 5.03% | 6.62% | 5.65% | 3.71% | |
| 1976 | 61,580 | 22,903 | 5,657 | 17,246 | 28.01% | 21.15% | 4.06% | -5.51% | -3.66% | 2.18% | 4.59% | 7.64% | 8.66% | 7.64% | |
| 1977 | 35,275 | 4,109 | 15,065 | (10,956) | -31.06% | 6.49% | 3.69% | -2.02% | -8.69% | -6.33% | -0.40% | 2.23% | 5.28% | 6.60% | |
| 1978 | 13,789 | 1,635 | 2,687 | (1,052) | -7.63% | -24.47% | 4.73% | 2.38% | -2.38% | -8.64% | -6.38% | -0.62% | 4.98% | 4.98% | |
| 1979 | 37,260 | 9,821 | 1,533 | 8,288 | 22.24% | 14.17% | -4.31% | 9.15% | 7.11% | 1.22% | -5.20% | -3.80% | 1.07% | 3.27% | |
| 1980 | 29,557 | 29,763 | 14,763 | 15,000 | 50.75% | 34.85% | 27.59% | 9.73% | 16.07% | 14.04% | 6.38% | -0.16% | 3.82% | 3.82% | |
| 1981 | 55,963 | (27,853) | 26,361 | (50,214) | -100.41% | -48.18% | -26.81% | -24.88% | -26.15% | -11.86% | -12.43% | -11.20% | -13.95% | -11.40% | |
| 1982 | 85,347 | (838) | 18,922 | (19,760) | -23.15% | -53.78% | -35.68% | -25.31% | -24.21% | -25.15% | -14.89% | -15.23% | -13.60% | -15.50% | |
| 1983 | 66,282 | 4,622 | 19,315 | (14,693) | -22.17% | -22.72% | -43.67% | -31.90% | -24.55% | -23.74% | -24.54% | -16.14% | -16.39% | -14.75% | |
| 1984 | 213,038 | 17,717 | 8,025 | 9,692 | 4.55% | -1.79% | -6.79% | -19.25% | -14.65% | -11.83% | -11.72% | -12.99% | -8.77% | -9.04% | |
| 1985 | 128,773 | 4,941 | 31,917 | (26,976) | -20.95% | -5.06% | -7.84% | -10.48% | -19.65% | -16.05% | -13.74% | -13.60% | -14.53% | -10.93% | |
| 1986 | 106,345 | 23,029 | 5,751 | 17,278 | 16.25% | -4.12% | 0.00% | -2.86% | -5.75% | -13.83% | -11.04% | -9.33% | -9.29% | -10.29% | |
| 1987 | 85,442 | (9) | 11,251 | (11,260) | -13.18% | 3.14% | -6.54% | -2.11% | -4.33% | -6.67% | -13.75% | -11.28% | -9.73% | -9.70% | |
| 1988 | 34,499 | | 0 | 0 | 0.00% | -9.39% | 2.66% | -5.90% | -1.98% | -4.09% | -6.35% | -13.14% | -10.80% | -9.33% | |
| 1989 | 59,494 | 5,347 | 1,552 | 3,795 | 6.38% | 4.04% | -4.19% | 3.43% | -4.14% | -1.15% | -3.19% | -5.38% | -8.61% | -8.61% | |
| 1990 | 158,940 | 10,747 | 44,037 | (33,290) | -20.95% | -13.50% | -11.66% | -12.04% | -5.28% | -8.80% | -8.80% | -5.18% | -6.50% | -13.22% | |
| 1991 | 88,511 | 1,530 | 17,057 | (15,527) | -17.54% | -19.73% | -14.67% | -13.19% | -13.18% | -7.31% | -9.97% | -6.43% | -7.54% | -8.84% | |
| 1992 | 6,597 | 2,833 | 36,184 | (33,351) | -505.55% | -51.39% | -32.34% | -25.00% | -22.52% | -20.68% | -13.40% | -14.86% | -10.17% | -11.01% | |
| 1993 | 191,768 | 912 | 131,495 | (130,583) | -68.09% | -82.64% | -62.56% | -47.72% | -41.35% | -38.71% | -35.22% | -27.74% | -26.72% | -20.52% | |
| 1994 | 59,748 | (1,076) | 51,894 | (52,970) | -88.66% | -79.98% | -84.03% | -67.06% | -52.56% | -46.35% | -43.69% | -39.88% | -32.34% | -30.74% | |
| 1995 | 565,442 | 848 | 183,548 | (182,700) | -32.31% | -37.70% | -44.83% | -48.52% | -45.52% | -41.87% | -39.33% | -38.17% | -36.46% | -32.33% | |
| 1996 | 146,351 | 16,460 | 796,066 | (781,606) | -537.74% | -136.67% | -132.02% | -119.28% | -121.91% | -113.18% | -101.12% | -86.11% | -83.58% | -86.86% | |
| 1997 | 16,802 | | 108,736 | (108,736) | -647.16% | -549.08% | -147.48% | -143.01% | -128.34% | -130.88% | -121.53% | -108.56% | -100.59% | -100.59% | |
| 1998 | 72,654 | (543) | 9,690 | (10,233) | -14.08% | -132.99% | -383.54% | -135.37% | -132.12% | -120.45% | -122.85% | -114.72% | -103.31% | -98.53% | |
| 1999 | 185,783 | 95 | 65,656 | (65,561) | -35.29% | -29.33% | -67.04% | -229.71% | -116.51% | -114.92% | -107.66% | -109.77% | -103.65% | -94.84% | |
| 2000 | 130,869 | 1,531 | 117,556 | (116,025) | -88.66% | -57.35% | -49.27% | -74.01% | -196.24% | -113.25% | -112.00% | -105.85% | -107.76% | -102.31% | |
| 2001 | - | - | 571 | (571) | NA | -89.09% | -57.53% | -49.42% | -74.15% | -196.34% | -113.30% | -112.05% | -105.89% | -107.81% | |
| 2002 | - | - | - | 0 | NA | NA | -89.09% | -57.53% | -49.42% | -74.15% | -196.34% | -113.30% | -112.05% | -105.89% | |
| 2003 | 1,313 | - | 379 | (379) | -28.88% | -28.88% | -72.37% | -88.50% | -57.41% | -49.35% | -74.00% | -196.54% | -113.20% | -111.95% | |
| 2004 | 387,578 | - | 25,206 | (25,206) | -6.50% | -6.58% | -6.58% | -6.73% | -27.36% | -28.44% | -28.44% | -28.44% | -28.44% | -28.44% | |
| 2005 | 26,913 | - | 0 | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2006 | 36,406 | - | 3,203 | (3,203) | -8.80% | -5.06% | -6.30% | -6.37% | -6.37% | -6.49% | -24.93% | -26.28% | -28.44% | -28.44% | |
| 2007 | 31 | - | 7,907 | (7,907) | -25687.46% | -30.49% | -17.54% | -8.05% | -8.11% | -8.11% | -8.24% | -26.29% | -28.46% | -27.22% | |
| 2008 | 36,835 | - | 16,808 | (16,808) | -45.63% | -67.04% | -38.10% | -27.87% | -10.89% | -10.94% | -10.94% | -11.06% | -27.44% | -29.25% | |
| 2009 | 407,177 | 532 | 571,354 | (570,822) | -140.19% | -132.35% | -134.12% | -124.62% | -118.01% | -69.72% | -69.66% | -69.66% | -69.72% | -72.14% | |
| 2010 | 289,559 | - | 210,579 | (210,579) | -72.72% | -112.15% | -109.81% | -108.88% | -105.11% | -101.56% | -70.45% | -70.41% | -70.46% | -70.46% | |
| 2011 | 6,315 | - | 6,899 | (6,899) | -109.24% | -73.50% | -112.13% | -108.82% | -109.88% | -105.14% | -101.62% | -70.66% | -70.61% | -70.61% | |
| 2012 | 140,986 | 2,485 | 384,028 | (381,543) | -270.62% | -263.31% | -137.12% | -138.61% | -134.71% | -136.61% | -130.57% | -126.85% | -91.53% | -91.77% | |
| 2013 | 90,141.00 | 72,376 | 39,055 | 33,321 | 36.97% | -150.66% | -149.56% | -107.34% | -121.66% | -118.78% | -119.59% | -115.58% | -115.58% | -83.66% | |
| 2014 | 12,249.00 | 46 | 40,402 | (40,356) | -329.46% | -6.87% | -159.66% | -158.39% | -112.39% | -124.35% | -121.40% | -122.20% | -118.15% | -115.11% | |
| 2015 | 138,814.00 | 21,132 | 383,011 | (361,879) | -260.69% | -266.27% | -152.95% | -196.36% | -194.94% | -142.75% | -141.79% | -138.63% | -139.33% | -139.33% | |
| 2016 | 0.00 | 2 | 166 | (164) | NA | -260.81% | -266.38% | -153.01% | -196.40% | -194.98% | -142.77% | -141.80% | -138.65% | -139.35% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
Distribution Station Equipment
Account 362
1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-------------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | 580,406 | 96,972 | 39,339 | 59,633 | 10.27% | | | | | | | | | |
| 1951 | 486,275 | 68,206 | 35,237 | 31,969 | 6.57% | 8.59% | | | | | | | | |
| 1952 | 408,213 | 106,440 | 27,175 | 79,265 | 19.42% | 12.44% | 11.59% | | | | | | | |
| 1953 | 325,425 | 58,464 | 28,508 | 29,956 | 9.21% | 14.89% | 11.57% | 11.15% | | | | | | |
| 1954 | 758,059 | 136,474 | 76,754 | 59,720 | 7.88% | 8.28% | 11.33% | 10.16% | 10.18% | | | | | |
| 1955 | 497,109 | 114,311 | 56,995 | 57,316 | 11.53% | 9.32% | 9.30% | 11.38% | 10.43% | 10.40% | | | | |
| 1956 | 413,464 | 189,776 | 41,358 | 148,418 | 35.90% | 22.59% | 15.91% | 14.81% | 15.60% | 14.08% | 13.44% | | | |
| 1957 | 571,297 | 228,543 | 47,832 | 180,711 | 31.63% | 33.42% | 26.08% | 19.92% | 18.56% | 18.68% | 16.98% | 16.01% | | |
| 1958 | 546,956 | 219,648 | 41,221 | 178,427 | 32.62% | 32.12% | 33.14% | 27.84% | 22.41% | 21.03% | 20.84% | 19.11% | 17.99% | |
| 1959 | 855,632 | 286,162 | 69,482 | 216,680 | 25.33% | 26.77% | 23.72% | 22.42% | 26.19% | 22.48% | 21.42% | 21.23% | 19.80% | 18.80% |
| 1960 | 701,697 | 139,834 | 85,687 | 54,147 | 7.72% | 16.34% | 20.38% | 22.70% | 24.41% | 22.67% | 20.15% | 22.67% | 19.40% | 18.30% |
| 1961 | 611,125 | 203,606 | 48,278 | 155,328 | 25.42% | 15.96% | 18.79% | 21.47% | 23.19% | 24.57% | 23.06% | 20.78% | 20.08% | 20.04% |
| 1962 | 899,760 | 297,357 | 60,156 | 237,201 | 26.36% | 25.98% | 20.19% | 20.94% | 22.66% | 23.85% | 24.91% | 23.63% | 21.63% | 20.98% |
| 1963 | 726,973 | 291,149 | 46,228 | 244,921 | 33.69% | 29.64% | 28.48% | 23.53% | 23.32% | 24.46% | 25.28% | 26.09% | 24.87% | 22.94% |
| 1964 | 1,294,375 | 414,183 | 32,012 | 382,171 | 29.53% | 31.02% | 29.59% | 28.87% | 25.36% | 24.87% | 25.61% | 26.15% | 26.75% | 25.70% |
| 1965 | 935,518 | 399,358 | 66,813 | 332,545 | 35.55% | 32.05% | 32.45% | 31.03% | 30.27% | 27.20% | 26.50% | 27.00% | 27.36% | 27.83% |
| 1966 | 1,568,935 | 542,844 | 95,442 | 446,402 | 28.45% | 31.10% | 30.57% | 31.07% | 30.29% | 28.79% | 27.49% | 26.90% | 27.28% | 27.56% |
| 1967 | 855,704 | 297,807 | 58,020 | 239,787 | 28.02% | 28.30% | 30.32% | 30.10% | 30.58% | 29.98% | 29.57% | 27.01% | 27.55% | 27.01% |
| 1968 | 1,119,777 | 295,104 | 134,278 | 160,826 | 14.36% | 20.28% | 23.90% | 26.33% | 27.05% | 27.79% | 27.62% | 27.45% | 25.86% | 25.54% |
| 1969 | 2,116,252 | 342,102 | 126,493 | 215,609 | 10.19% | 11.60% | 15.06% | 18.77% | 21.15% | 22.52% | 23.47% | 23.74% | 23.84% | 22.80% |
| 1970 | 2,168,522 | 638,268 | 168,947 | 469,321 | 21.64% | 15.99% | 15.65% | 17.34% | 19.57% | 21.27% | 22.33% | 23.10% | 23.35% | 23.45% |
| 1971 | 1,947,078 | 501,021 | 179,219 | 321,802 | 16.53% | 19.22% | 16.15% | 15.88% | 17.15% | 18.96% | 20.41% | 21.38% | 22.09% | 22.38% |
| 1972 | 1,037,677 | 82,693 | 68,222 | 14,471 | 1.39% | 11.27% | 15.63% | 14.05% | 14.09% | 15.38% | 17.28% | 18.73% | 19.80% | 20.53% |
| 1973 | 716,039 | 374,958 | 108,811 | 266,147 | 37.07% | 15.98% | 16.27% | 18.25% | 16.12% | 15.90% | 16.94% | 16.51% | 19.79% | 20.70% |
| 1974 | 1,490,190 | 380,904 | 111,875 | 269,029 | 22.85% | 26.52% | 26.32% | 18.21% | 18.42% | 16.20% | 17.09% | 18.60% | 18.46% | 19.60% |
| 1975 | 1,738,144 | 614,293 | 162,415 | 451,878 | 26.00% | 22.33% | 25.01% | 20.09% | 19.09% | 19.70% | 17.91% | 17.58% | 18.26% | 19.34% |
| 1976 | 1,044,340 | 273,597 | 95,218 | 178,379 | 17.08% | 22.65% | 21.05% | 23.35% | 19.57% | 18.83% | 19.43% | 17.83% | 17.54% | 18.17% |
| 1977 | 1,647,038 | 562,726 | 253,421 | 309,305 | 18.78% | 18.12% | 21.21% | 20.42% | 22.22% | 19.40% | 18.82% | 19.34% | 17.95% | 17.68% |
| 1978 | 1,171,751 | 252,240 | 151,658 | 100,582 | 8.58% | 14.54% | 15.23% | 18.57% | 18.46% | 20.17% | 17.97% | 17.71% | 18.37% | 17.22% |
| 1979 | 2,167,258 | 604,763 | 189,746 | 415,017 | 19.15% | 16.54% | 16.54% | 16.64% | 18.73% | 18.62% | 19.95% | 18.20% | 17.95% | 18.48% |
| 1980 | 1,269,797 | 245,045 | 228,892 | 16,153 | 1.27% | 12.54% | 11.54% | 13.44% | 13.96% | 16.28% | 16.53% | 17.84% | 16.45% | 16.46% |
| 1981 | 847,117 | 390,650 | 114,912 | 275,738 | 32.65% | 13.79% | 13.79% | 14.80% | 15.72% | 15.90% | 17.72% | 17.22% | 18.37% | 17.67% |
| 1982 | 608,661 | (168,164) | 168,392 | (38,536) | -5.29% | -4.18% | -1.64% | 7.57% | 7.77% | 10.12% | 10.95% | 13.44% | 14.01% | 15.32% |
| 1983 | 2,412,801 | 1,327,966 | 226,651 | 1,101,315 | 45.64% | 25.31% | 26.90% | 20.56% | 20.14% | 18.55% | 18.58% | 18.44% | 19.46% | 19.32% |
| 1984 | 1,795,506 | (323,231) | 196,978 | (520,209) | -28.97% | 13.81% | 5.08% | 9.19% | 7.74% | 10.45% | 10.24% | 11.42% | 11.88% | 13.55% |
| 1985 | 2,110,292 | 633,564 | 533,137 | 100,427 | 4.76% | -10.75% | 10.79% | 4.98% | 7.98% | 9.38% | 9.38% | 9.31% | 10.42% | 10.88% |
| 1986 | 1,118,393 | 304,196 | 228,745 | 75,451 | 6.75% | 5.45% | -8.85% | 10.18% | 5.23% | 7.83% | 7.01% | 9.14% | 9.09% | 10.15% |
| 1987 | 1,754,370 | 1,094,746 | 236,977 | 857,769 | 48.89% | 32.49% | 20.74% | 7.57% | 17.57% | 13.04% | 14.59% | 13.18% | 14.09% | 13.67% |
| 1988 | 1,246,796 | 398,055 | 260,943 | 137,112 | 11.00% | 33.15% | 25.98% | 18.79% | 8.11% | 16.78% | 12.81% | 14.22% | 12.97% | 13.84% |
| 1989 | 1,549,267 | (1,062,065) | 255,034 | (1,317,099) | -85.01% | -42.20% | -7.03% | -4.35% | -1.88% | -6.98% | 3.63% | 0.78% | 2.85% | 2.85% |
| 1990 | 1,527,584 | 587,721 | 437,398 | 150,323 | 9.84% | -37.92% | -23.81% | -2.83% | -1.34% | 0.04% | -4.65% | -4.33% | -1.76% | 3.50% |
| 1991 | 991,458 | 57,079 | 274,416 | (217,337) | -21.92% | -2.66% | -34.02% | -23.46% | -5.51% | -3.83% | -2.07% | -6.07% | 2.54% | 0.21% |
| 1992 | 2,093,341 | 176,967 | 371,143 | (194,176) | -9.28% | -13.34% | -5.66% | -25.61% | -19.45% | -6.37% | -4.94% | -3.29% | -6.54% | 1.05% |
| 1993 | 2,850,572 | 11,209 | 484,649 | (473,440) | -16.61% | -13.50% | -14.91% | -9.84% | -22.77% | -18.66% | -8.80% | -7.47% | -5.78% | -8.22% |
| 1994 | 1,870,353 | 122,530 | 241,578 | (119,048) | -6.37% | -12.55% | -11.54% | -12.86% | -9.15% | -19.95% | -16.77% | -8.47% | -7.34% | -8.84% |
| 1995 | 5,159,212 | 287,613 | 945,396 | (657,783) | -12.75% | -11.05% | -12.65% | -12.06% | -12.82% | -10.43% | -17.63% | -15.57% | -9.63% | -8.72% |
| 1996 | 1,700,872 | 68,765 | 431,278 | (362,513) | -21.31% | -14.67% | -13.05% | -15.93% | -13.21% | -13.80% | -11.57% | -17.99% | -16.08% | -10.59% |
| 1997 | 2,402,522 | 144,366 | 365,288 | (220,922) | -9.20% | -14.22% | -13.40% | -12.22% | -13.11% | -12.61% | -13.15% | -11.27% | -16.94% | -15.31% |
| 1998 | 2,123,681 | (4,117) | 329,891 | (334,008) | -15.73% | -12.26% | -14.73% | -13.83% | -12.78% | -13.46% | -12.98% | -13.44% | -11.72% | -16.82% |
| 1999 | 2,140,164 | 499,705 | 335,508 | 164,197 | 7.67% | -3.98% | -5.86% | -9.00% | -10.43% | -9.94% | -10.98% | -11.32% | -9.91% | -9.91% |
| 2000 | 5,933,577 | 48,117 | 1,176,442 | (1,128,325) | -19.02% | -11.94% | -12.73% | -12.06% | -13.16% | -13.05% | -12.46% | -12.95% | -12.66% | -13.00% |
| 2001 | 7,644 | (26,011) | 56,991 | (83,002) | -10.85% | -20.39% | -12.96% | -13.53% | -12.71% | -13.73% | -13.47% | -12.85% | -12.97% | -12.97% |
| 2002 | 444,385 | (890) | (890) | 0 | 0.00% | -18.32% | -18.97% | -12.28% | -12.97% | -12.27% | -13.32% | -13.17% | -12.59% | -13.05% |
| 2003 | 611,133 | (209) | 402,144 | (402,353) | -66.84% | -38.16% | -45.65% | -22.06% | -15.86% | -15.84% | -14.67% | -15.41% | -14.74% | -14.04% |
| 2004 | 1,918,984 | 153,620 | 389,606 | (235,986) | -12.30% | -25.29% | -21.49% | -21.49% | -20.75% | -15.24% | -15.32% | -15.06% | -14.53% | -14.53% |
| 2005 | 518,771 | 11,528 | 216,410 | (204,882) | -39.49% | -18.08% | -27.66% | -24.14% | -26.46% | -21.78% | -16.33% | -16.24% | -15.19% | -15.77% |
| 2006 | 2,176,283 | - | 257,631 | (257,631) | -11.84% | -11.76% | -15.14% | -21.07% | -19.42% | -20.85% | -19.91% | -15.62% | -15.63% | -14.79% |
| 2007 | 3,664,102 | 221,414 | 1,316,458 | (1,095,043) | -29.89% | -23.16% | -24.49% | -21.67% | -24.70% | -23.53% | -24.40% | -22.31% | -18.62% | -18.31% |
| 2008 | 3,455,741 | 341,108 | 719,927 | (378,819) | -10.96% | -20.70% | -18.63% | -19.73% | -20.51% | -20.86% | -20.13% | -20.77% | -20.21% | -17.35% |
| 2009 | 2,042,577 | 376,190 | 586,428 | (210,238) | -10.29% | -10.71% | -18.38% | -17.12% | -18.10% | -17.29% | -19.36% | -18.78% | -19.33% | -19.24% |
| 2010 | 3,222,362 | 130,964 | 2,165,848 | (2,034,884) | -63.15% | -42.64% | -30.09% | -30.03% | -27.31% | -27.73% | -25.99% | -27.14% | -26.70% | -27.14% |
| 2011 | 1,686,463 | 307,428 | 362,428 | (55,000) | -3.32% | -1.49% | -32.66% | -25.45% | -26.61% | -25.03% | -23.78% | -25.18% | -24.54% | -24.54% |
| 2012 | 2,326,359 | 184,444 | 917,217 | (732,773) | -32.91% | -19.77% | -39.14% | -32.72% | -26.71% | -27.47% | -25.63% | -26.01% | -24.75% | -25.92% |
| 2013 | 4,063,163.00 | 2,214,954 | 1,851,534 | (363,420) | -8.94% | -5.87% | -4.95% | -21.69% | -19.93% | -18.08% | -20.20% | -19.85% | -19.85% | -19.27% |
| 2014 | 600,765.00 | 11,364 | 1,184,771 | (1,173,407) | -195.32% | -17.37% | -22.39% | -18.28% | -30.53% | -27.55% | -24.23% | -25.22% | -23.96% | -24.30% |
| 2015 | 3,618,822.00 | 153,570 | 1,513,650 | (1,360,080) | -37.58% | -60.04% | -26.20% | -27.62% | -24.01% | -23.19% | -29.63% | -26.54% | -26.80% | -26.80% |
| 2016 | 1,441,427.00 | 13,126 | 309,405 | (296,279) | -20.55% | -32.73% | -48.99% | -25.86% | -26.77% | -23.64% | -31.19% | -28.94% | -26.16% | -26.88% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Poles, Towers & Fixtures Account 364 1950-2016 | | | | | | | | | | | | | | | |
|---|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 362,810 | 136,721 | 157,389 | (18,668) | -5.15% | | | | | | | | | | |
| 1951 | 390,340 | 167,709 | 171,357 | (3,648) | -0.93% | -2.96% | | | | | | | | | |
| 1952 | 469,069 | 193,928 | 203,469 | (9,541) | -2.03% | -1.53% | -2.61% | | | | | | | | |
| 1953 | 471,325 | 201,761 | 211,768 | (10,007) | -2.12% | -2.08% | -2.12% | -2.47% | | | | | | | |
| 1954 | 546,267 | 194,142 | 227,302 | (33,160) | -6.07% | -4.24% | -3.55% | -3.00% | -3.35% | | | | | | |
| 1955 | 453,354 | 166,190 | 207,220 | (41,030) | -9.05% | -7.42% | -5.72% | -4.83% | -4.18% | -4.31% | | | | | |
| 1956 | 560,734 | 211,800 | 270,036 | (58,236) | -10.39% | -9.79% | -8.49% | -7.01% | -6.08% | -5.38% | -5.36% | | | | |
| 1957 | 665,054 | 225,191 | 321,788 | (96,597) | -14.52% | -12.63% | -11.66% | -10.29% | -8.86% | -7.85% | -7.09% | -6.91% | | | |
| 1958 | 555,324 | 184,524 | 316,709 | (132,185) | -23.76% | -18.30% | -15.65% | -14.49% | -12.85% | -11.31% | -10.15% | -9.28% | -8.95% | | |
| 1959 | 599,575 | 205,710 | 308,865 | (103,155) | -17.00% | -15.30% | -14.21% | -12.81% | -11.61% | -10.41% | -9.21% | -8.01% | -7.14% | -9.91% | |
| 1960 | 598,706 | 239,012 | 321,716 | (82,704) | -13.81% | -15.49% | -17.82% | -16.92% | -15.71% | -14.83% | -13.64% | -12.43% | -11.44% | -10.68% | |
| 1961 | 567,584 | 143,220 | 315,362 | (172,142) | -30.33% | -21.85% | -20.26% | -20.84% | -19.45% | -18.03% | -17.02% | -15.71% | -14.44% | -13.39% | |
| 1962 | 792,510 | 228,021 | 419,175 | (191,154) | -24.12% | -24.12% | -22.77% | -21.46% | -21.67% | -20.42% | -19.13% | -18.18% | -16.95% | -16.75% | |
| 1963 | 690,456 | 189,208 | 371,385 | (182,177) | -26.39% | -25.17% | -26.60% | -23.71% | -22.50% | -22.52% | -21.33% | -20.12% | -19.21% | -18.03% | |
| 1964 | 756,756 | 183,617 | 383,014 | (199,397) | -26.35% | -26.37% | -26.57% | -26.53% | -24.30% | -23.23% | -23.15% | -22.06% | -20.93% | -20.07% | |
| 1965 | 804,409 | 169,470 | 424,453 | (254,983) | -31.70% | -29.11% | -28.27% | -27.19% | -27.68% | -25.71% | -24.65% | -24.42% | -23.34% | -22.24% | |
| 1966 | 847,782 | 273,769 | 474,266 | (200,497) | -23.65% | -27.57% | -27.19% | -27.01% | -26.42% | -26.92% | -25.37% | -24.32% | -23.37% | -23.37% | |
| 1967 | 805,477 | 233,692 | 536,116 | (302,424) | -37.55% | -30.42% | -30.84% | -29.78% | -29.18% | -28.33% | -28.54% | -27.04% | -26.12% | -25.83% | |
| 1968 | 1,075,082 | 304,729 | 630,209 | (325,480) | -30.27% | -33.39% | -30.36% | -30.67% | -29.91% | -29.42% | -28.69% | -28.84% | -27.54% | -26.72% | |
| 1969 | 1,031,876 | 327,687 | 692,795 | (365,108) | -35.38% | -32.78% | -34.10% | -31.74% | -31.73% | -30.97% | -30.44% | -29.70% | -28.56% | -28.56% | |
| 1970 | 1,099,317 | 457,528 | 720,404 | (262,876) | -23.91% | -29.47% | -29.74% | -31.31% | -29.97% | -30.22% | -29.76% | -29.43% | -28.90% | -28.99% | |
| 1971 | 789,082 | 316,327 | 579,299 | (262,972) | -33.33% | -27.85% | -30.51% | -30.45% | -31.64% | -30.44% | -30.60% | -29.52% | -29.30% | -29.30% | |
| 1972 | 851,141 | 390,947 | 514,057 | (123,110) | -14.46% | -23.54% | -23.69% | -26.89% | -27.64% | -29.05% | -28.35% | -28.72% | -28.49% | -28.33% | |
| 1973 | 736,997 | 357,590 | 442,644 | (85,294) | -10.84% | -12.72% | -19.42% | -20.82% | -24.12% | -25.29% | -26.83% | -26.46% | -26.38% | -26.32% | |
| 1974 | 868,610 | 471,309 | 722,086 | (250,777) | -29.33% | -22.87% | -11.00% | -6.66% | -11.00% | -15.64% | -18.06% | -20.56% | -20.56% | -20.56% | |
| 1975 | 669,661 | 466,247 | 484,869 | (18,622) | -2.78% | 15.09% | 6.32% | 0.75% | -6.03% | -9.91% | -14.22% | -16.63% | -18.74% | -19.21% | |
| 1976 | 781,496 | 639,065 | 669,345 | (30,280) | -3.87% | -3.77% | 8.70% | 3.75% | -0.16% | -5.68% | -9.11% | -13.05% | -15.38% | -17.42% | |
| 1977 | 855,685 | 608,648 | 808,910 | (200,262) | -23.40% | -14.08% | -10.80% | 0.05% | -2.11% | -4.30% | -8.38% | -10.93% | -14.19% | -16.16% | |
| 1978 | 806,509 | 598,244 | 957,979 | (359,735) | -44.60% | -33.69% | -24.16% | -19.56% | -8.99% | -9.30% | -10.08% | -12.94% | -14.55% | -16.17% | |
| 1979 | 994,133 | 1,142,986 | 1,142,986 | (227,022) | -22.84% | -32.59% | -29.65% | -23.77% | -20.35% | -11.76% | -11.63% | -12.00% | -14.27% | -15.52% | |
| 1980 | 997,429 | 1,077,699 | 1,134,786 | (57,087) | -5.72% | -14.27% | -23.01% | -23.10% | -19.71% | -17.49% | -10.75% | -10.76% | -11.18% | -13.26% | |
| 1981 | 995,763 | 850,505 | 1,142,620 | (292,115) | -25.54% | -14.22% | -19.29% | -24.67% | -24.44% | -21.48% | -13.41% | -13.15% | -13.15% | -13.15% | |
| 1982 | 859,241 | 750,335 | 904,844 | (154,509) | -17.98% | -24.08% | -17.66% | -19.00% | -23.44% | -23.43% | -21.00% | -19.25% | -13.91% | -13.63% | |
| 1983 | 722,959 | 553,596 | 833,553 | (279,957) | -38.72% | -27.46% | -28.18% | -21.92% | -22.12% | -25.49% | -25.20% | -22.83% | -21.08% | -16.01% | |
| 1984 | 811,245 | 634,607 | 990,768 | (356,161) | -43.90% | -41.46% | -33.03% | -31.95% | -25.98% | -25.40% | -27.91% | -27.36% | -25.01% | -23.26% | |
| 1985 | 869,691 | 862,825 | 1,068,316 | (205,491) | -23.63% | -33.41% | -35.01% | -30.53% | -30.25% | -25.59% | -25.16% | -27.38% | -26.95% | -24.87% | |
| 1986 | 761,199 | 721,560 | 1,019,111 | (297,551) | -39.09% | -30.84% | -35.18% | -35.99% | -32.15% | -31.59% | -27.30% | -26.67% | -28.52% | -28.01% | |
| 1987 | 940,055 | 438,215 | 1,115,316 | (677,101) | -72.03% | -57.29% | -45.90% | -45.42% | -44.24% | -39.70% | -37.97% | -33.34% | -32.03% | -33.19% | |
| 1988 | 782,576 | 593,197 | 928,440 | (335,243) | -42.84% | -58.77% | -52.74% | -45.19% | -44.94% | -44.02% | -40.13% | -38.53% | -34.30% | -33.00% | |
| 1989 | 840,122 | 537,074 | 1,005,727 | (468,653) | -55.78% | -49.54% | -47.71% | -57.79% | -53.51% | -47.31% | -46.76% | -45.74% | -42.12% | -40.41% | |
| 1990 | 954,826 | 382,133 | 1,115,170 | (733,037) | -76.17% | -66.95% | -59.63% | -62.94% | -58.70% | -52.77% | -51.57% | -46.51% | -46.51% | -46.51% | |
| 1991 | 952,268 | 316,848 | 1,178,838 | (861,990) | -90.52% | -83.64% | -75.12% | -67.96% | -68.82% | -64.49% | -58.67% | -56.93% | -55.21% | -51.44% | |
| 1992 | 920,840 | 273,420 | 1,548,982 | (1,275,562) | -138.52% | -114.12% | -101.51% | -91.04% | -82.56% | -80.72% | -75.57% | -69.14% | -66.53% | -64.18% | |
| 1993 | 886,974 | 273,526 | 1,457,836 | (1,184,310) | -133.52% | -136.07% | -120.35% | -109.15% | -99.31% | -91.03% | -88.18% | -82.87% | -76.36% | -73.34% | |
| 1994 | 735,765 | 273,404 | 1,202,388 | (928,984) | -126.23% | -130.23% | -133.23% | -121.60% | -111.98% | -103.06% | -95.30% | -92.18% | -86.98% | -80.61% | |
| 1995 | 1,053,000 | 332,152 | 1,386,330 | (1,054,178) | -100.11% | -110.87% | -118.38% | -123.54% | -116.62% | -109.71% | -102.57% | -96.01% | -93.21% | -88.55% | |
| 1996 | 1,330,016 | 450,572 | 1,468,879 | (1,019,307) | -76.56% | -86.97% | -96.24% | -104.89% | -110.95% | -107.56% | -103.26% | -98.06% | -92.95% | -90.86% | |
| 1997 | 1,287,093 | 382,023 | 1,529,412 | (1,147,389) | -90.55% | -82.21% | -83.39% | -88.21% | -94.60% | -101.14% | -106.70% | -104.54% | -97.00% | -92.64% | |
| 1998 | 1,659,671 | 538,137 | 1,847,881 | (1,309,744) | -78.92% | -83.95% | -81.64% | -85.31% | -90.29% | -95.82% | -100.83% | -99.71% | -97.47% | -94.17% | |
| 1999 | 1,909,168 | 1,175,239 | 2,373,833 | (1,198,594) | -62.78% | -70.26% | -76.60% | -76.80% | -79.35% | -83.69% | -88.69% | -93.39% | -93.13% | -91.79% | |
| 2000 | 1,918,722 | 545,808 | 2,086,404 | (1,540,596) | -80.29% | -71.56% | -73.78% | -76.93% | -76.87% | -79.55% | -83.03% | -87.19% | -91.24% | -91.18% | |
| 2001 | 1,332,653 | 172,764 | 1,799,297 | (1,626,533) | -122.05% | -97.41% | -84.60% | -83.22% | -84.36% | -83.26% | -84.96% | -87.67% | -91.03% | -94.39% | |
| 2002 | 739,364 | 55,756.79 | 795,800 | (740,044) | -100.09% | -114.22% | -97.91% | -86.54% | -84.87% | -85.68% | -84.49% | -85.96% | -88.44% | -91.55% | |
| 2003 | 640,353 | - | 463,689 | (463,689) | -72.41% | -87.24% | -104.35% | -98.38% | -85.16% | -83.89% | -84.78% | -83.77% | -85.22% | -87.62% | |
| 2004 | 923,703 | - | 282,566 | (282,566) | -30.59% | -47.71% | -64.51% | -67.71% | -78.40% | -83.77% | -78.50% | -73.58% | -73.58% | -73.58% | |
| 2005 | 876,456 | - | 488,383 | (488,383) | -55.72% | -42.83% | -50.59% | -62.10% | -79.80% | -79.95% | -76.02% | -76.50% | -78.08% | -77.92% | |
| 2006 | 1,328,528 | 5,788.00 | 647,767 | (641,979) | -48.32% | -51.26% | -45.16% | -49.79% | -58.04% | -74.54% | -72.64% | -73.20% | -74.94% | -74.94% | |
| 2007 | 832,466 | - | 4,027,184.12 | (4,027,184) | -483.77% | -216.07% | -169.80% | -137.34% | -128.30% | -124.40% | -123.93% | -114.18% | -104.84% | -101.30% | |
| 2008 | 984,341 | - | 1,819,603.36 | (1,819,603) | -184.85% | -321.82% | -206.30% | -173.48% | -146.79% | -138.27% | -133.80% | -131.76% | -121.45% | -117.70% | |
| 2009 | 661,009 | - | 1,827,129.46 | (1,827,129) | -276.42% | -221.64% | -309.70% | -218.47% | -188.01% | -162.08% | -152.89% | -147.30% | -143.25% | -131.45% | |
| 2010 | 912,450 | - | 1,538,628.63 | (1,538,629) | -168.63% | -213.91% | -202.73% | -271.74% | -208.84% | -184.85% | -162.99% | -158.79% | -149.76% | -145.76% | |
| 2011 | 1,630,352 | - | 2,664,541.08 | (2,664,541) | -157.63% | -147.61% | -164.76% | -164.76% | -233.71% | -179.33% | -161.89% | -155.42% | -151.15% | -151.15% | |
| 2012 | 937,758 | 1,459,534 | 2,842,830 | (1,383,296) | -147.61% | -154.02% | -177.88% | -176.45% | -178.04% | -170.33% | -189.23% | -175.00% | -160.42% | -154.66% | |
| 2013 | 906,698.00 | 1,067,618 | 2,798,945 | (1,731,327) | -190.95% | -168.86% | -163.49% | -164.55% | -179.02% | -162.48% | -158.48% | -149.42% | -146.58% | -163.17% | |
| 2014 | 1,114,666.00 | 1,113,335 | 2,774,147 | (1,660,812) | -149.00% | -167.81% | -161.38% | -160.02% | -161.43% | -173.64% | -175.17% | -207.13% | -184.61% | -173.58% | |
| 2015 | 1,455,614.00 | 663,949 | 3,394,032 | (2,730,083) | -187.56% | -170.83% | -176.08% | -170.01% | -166.58% | -166.85% | -177.28% | -204.13% | -185.00% | -185.00% | |
| 2016 | 600,771.00 | 679,237 | 5,983,222 | (5,303,985) | -882.86% | -390.69% | -305.73% | -280.21% | -255.40% | -230.75% | -223.31% | -227.55% | -223.02% | -244.52% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Overhead Conductors & Devices Account 365 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|--------------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 311,231 | 188,324 | 74,502 | 113,822 | 36.57% | | | | | | | | | | |
| 1951 | 321,364 | 190,799 | 81,674 | 109,125 | 33.96% | 35.24% | | | | | | | | | |
| 1952 | 390,977 | 245,915 | 97,882 | 148,033 | 37.86% | 36.10% | 36.24% | | | | | | | | |
| 1953 | 376,791 | 295,560 | 105,941 | 189,619 | 50.32% | 43.98% | 41.02% | 40.03% | | | | | | | |
| 1954 | 396,215 | 338,733 | 110,064 | 228,669 | 57.71% | 54.11% | 48.65% | 45.47% | 43.93% | | | | | | |
| 1955 | 425,512 | 351,830 | 93,288 | 258,542 | 60.76% | 59.29% | 56.47% | 51.89% | 48.88% | 47.15% | | | | | |
| 1956 | 491,978 | 369,139 | 118,549 | 250,590 | 50.94% | 55.49% | 56.16% | 54.86% | 51.67% | | 47.84% | | | | |
| 1957 | 684,494 | 393,508 | 138,560 | 254,948 | 37.25% | 42.97% | 47.70% | 49.68% | 49.78% | 48.10% | 46.63% | 45.71% | | | |
| 1958 | 615,131 | 369,685 | 136,084 | 233,601 | 37.98% | 37.59% | 41.26% | 45.00% | 46.93% | 47.35% | 46.28% | 45.19% | 44.52% | | |
| 1959 | 563,107 | 397,873 | 137,600 | 260,273 | 47.57% | 40.22% | 40.22% | 45.25% | 46.80% | 47.18% | 46.80% | 47.18% | 46.25% | 44.73% | |
| 1960 | 605,124 | 371,815 | 150,747 | 221,068 | 36.53% | 41.20% | 40.09% | 39.30% | 41.23% | 43.69% | 45.16% | 44.63% | 44.96% | 44.23% | |
| 1961 | 612,283 | 344,925 | 155,362 | 189,563 | 30.96% | 33.73% | 37.68% | 37.67% | 37.64% | 39.47% | 41.74% | 43.18% | 43.74% | 43.30% | |
| 1962 | 913,571 | 479,590 | 221,981 | 257,609 | 28.20% | 29.31% | 31.36% | 34.46% | 35.12% | 35.48% | 37.18% | 39.22% | 40.60% | 41.25% | |
| 1963 | 777,890 | 371,578 | 195,240 | 176,338 | 22.67% | 22.67% | 27.07% | 29.03% | 31.82% | 32.75% | 33.39% | 35.03% | 36.96% | 38.31% | |
| 1964 | 790,338 | 374,700 | 205,126 | 169,574 | 21.46% | 22.06% | 24.32% | 25.63% | 27.42% | 29.90% | 30.92% | 31.70% | 33.26% | 35.07% | |
| 1965 | 1,086,062 | 442,064 | 273,496 | 168,568 | 15.51% | 18.02% | 19.38% | 21.64% | 23.00% | 24.71% | 26.98% | 28.11% | 29.05% | 30.56% | |
| 1966 | 1,181,692 | 526,799 | 229,649 | 297,150 | 25.15% | 20.53% | 20.77% | 21.69% | 22.51% | 23.48% | 24.80% | 27.62% | 27.62% | 28.46% | |
| 1967 | 1,131,512 | 462,766 | 264,397 | 198,369 | 17.53% | 21.42% | 19.53% | 19.90% | 20.33% | 21.55% | 22.44% | 23.64% | 25.30% | 26.24% | |
| 1968 | 1,364,210 | 588,198 | 306,146 | 282,052 | 20.68% | 19.25% | 21.14% | 19.86% | 20.09% | 20.41% | 21.39% | 22.13% | 23.16% | 24.60% | |
| 1969 | 1,533,663 | 608,005 | 330,668 | 277,337 | 18.08% | 19.30% | 18.81% | 20.24% | 19.43% | 19.65% | 20.81% | 21.47% | 22.38% | 23.81% | |
| 1970 | 1,540,399 | 676,390 | 344,155 | 332,235 | 21.57% | 19.83% | 20.09% | 19.57% | 20.55% | 19.85% | 20.00% | 20.22% | 20.92% | 21.49% | |
| 1971 | 1,115,794 | 432,839 | 241,627 | 191,212 | 17.14% | 19.17% | 19.11% | 19.50% | 19.16% | 20.06% | 19.51% | 19.67% | 19.89% | 20.55% | |
| 1972 | 1,148,405 | 511,359 | 277,138 | 234,221 | 20.40% | 18.79% | 19.91% | 19.39% | 19.65% | 19.34% | 20.10% | 19.81% | 19.75% | 19.94% | |
| 1973 | 1,094,044 | 551,411 | 272,272 | 278,739 | 25.48% | 22.87% | 20.97% | 21.16% | 20.42% | 20.47% | 20.10% | 20.69% | 20.19% | 20.27% | |
| 1974 | 1,186,378 | 692,553 | 396,228 | 296,325 | 27.85% | 20.82% | 20.77% | 21.69% | 21.49% | 22.51% | 23.48% | 25.41% | 24.52% | 23.79% | |
| 1975 | 1,001,179 | 727,041 | 334,658 | 392,383 | 39.19% | 49.31% | 41.37% | 35.93% | 32.15% | 29.85% | 27.76% | 26.79% | 25.85% | 25.78% | |
| 1976 | 1,139,105 | 746,008 | 404,527 | 341,481 | 29.98% | 34.29% | 42.69% | 38.43% | 34.71% | 31.78% | 29.87% | 28.01% | 27.11% | 26.23% | |
| 1977 | 1,052,882 | 727,239 | 531,781 | 195,458 | 18.56% | 24.50% | 29.10% | 36.89% | 34.61% | 32.14% | 29.98% | 28.58% | 27.09% | 26.38% | |
| 1978 | 1,036,168 | 817,860 | 529,372 | 88,488 | 8.54% | 13.59% | 19.37% | 24.07% | 31.47% | 30.46% | 28.95% | 27.45% | 26.57% | 25.47% | |
| 1979 | 1,217,414 | 1,089,903 | 581,581 | 508,322 | 41.75% | 26.48% | 23.96% | 25.50% | 28.02% | 33.35% | 32.24% | 30.71% | 29.19% | 28.17% | |
| 1980 | 1,206,570 | 1,215,879 | 812,525 | 403,354 | 33.43% | 37.61% | 28.91% | 26.49% | 27.20% | 29.00% | 33.37% | 32.40% | 31.03% | 29.65% | |
| 1981 | 1,348,144 | 1,318,255 | 1,023,266 | (210,011) | -15.98% | 7.57% | 16.80% | 16.82% | 16.82% | 19.80% | 18.96% | 18.61% | 25.11% | 25.54% | |
| 1982 | 1,184,273 | 891,439 | 861,742 | 29,697 | 2.51% | -7.12% | 5.97% | 14.76% | 13.68% | 14.41% | 16.58% | 19.04% | 23.48% | 23.67% | |
| 1983 | 983,821 | 705,168 | 719,722 | (14,554) | -1.48% | 0.70% | -5.44% | 4.41% | 12.07% | 11.54% | 12.46% | 14.64% | 17.06% | 21.32% | |
| 1984 | 1,142,514 | 1,223,869 | 923,090 | 300,779 | 26.33% | 13.66% | 9.54% | 2.27% | 8.68% | 14.37% | 13.62% | 14.19% | 15.93% | 17.99% | |
| 1985 | 1,287,338 | 1,219,214 | 1,018,726 | 200,488 | 15.57% | 20.63% | 14.26% | 11.23% | 5.15% | 9.92% | 14.55% | 13.89% | 14.36% | 15.89% | |
| 1986 | 1,006,210 | 1,104,204 | 886,423 | 217,781 | 21.64% | 18.24% | 20.93% | 15.94% | 13.10% | 7.54% | 11.37% | 15.31% | 14.64% | 15.00% | |
| 1987 | 1,271,033 | 874,009 | 991,850 | (117,841) | -9.27% | 4.39% | 8.43% | 12.77% | 10.31% | 8.96% | 4.94% | 8.59% | 12.38% | 12.04% | |
| 1988 | 1,102,260 | 1,250,157 | 893,030 | 357,127 | 32.40% | 10.08% | 13.52% | 14.08% | 16.50% | 13.89% | 12.20% | 8.19% | 11.08% | 14.26% | |
| 1989 | 1,364,652 | 814,344 | 1,001,622 | (187,278) | -13.72% | 6.89% | 1.30% | 5.69% | 7.80% | 10.75% | 9.27% | 8.42% | 5.39% | 8.23% | |
| 1990 | 1,518,591 | 763,122 | 1,068,484 | (205,362) | -13.52% | -0.89% | -2.92% | 1.03% | 3.51% | 6.51% | 5.70% | 5.35% | 3.04% | 3.04% | |
| 1991 | 1,373,240 | 516,756 | 1,100,444 | (583,688) | -42.50% | -27.29% | -22.94% | -11.55% | -11.12% | -6.80% | -3.57% | -0.18% | -0.29% | -0.02% | |
| 1992 | 2,644,759 | 478,960 | 1,670,950 | (1,191,990) | -45.07% | -44.19% | -35.78% | -31.42% | -22.63% | -20.80% | -16.65% | -13.06% | -9.52% | -8.94% | |
| 1993 | 2,405,576 | 323,269 | 1,490,514 | (1,167,245) | -48.52% | -46.71% | -45.81% | -39.64% | -35.84% | -28.61% | -26.51% | -22.69% | -19.16% | -15.73% | |
| 1994 | 1,906,308 | 382,459 | 1,138,160 | (755,701) | -39.64% | -44.60% | -44.78% | -44.40% | -39.64% | -36.49% | -30.32% | -28.35% | -24.90% | -21.62% | |
| 1995 | 1,999,112 | 736,309 | 1,327,071 | (590,762) | -29.55% | -34.48% | -39.83% | -41.38% | -41.53% | -37.94% | -35.44% | -30.21% | -28.51% | -25.46% | |
| 1996 | 2,458,589 | 603,448 | 1,311,527 | (700,079) | -28.60% | -29.14% | -32.28% | -36.74% | -38.67% | -39.08% | -36.37% | -30.01% | -28.55% | -25.54% | |
| 1997 | 2,231,917 | 560,259 | 1,303,589 | (743,330) | -33.30% | -30.94% | -30.43% | -32.59% | -36.04% | -37.79% | -35.22% | -35.95% | -34.28% | -30.39% | |
| 1998 | 2,976,280 | 751,165 | 1,692,351 | (941,186) | -31.62% | -32.34% | -31.21% | -30.86% | -32.31% | -35.10% | -36.69% | -37.13% | -35.29% | -33.88% | |
| 1999 | 3,519,349 | 1,165,780 | 2,105,564 | (939,784) | -26.70% | -28.96% | -30.07% | -29.79% | -29.75% | -31.00% | -33.41% | -34.94% | -35.43% | -33.98% | |
| 2000 | 3,583,144 | 599,171 | 1,853,315 | (1,254,144) | -35.00% | -30.89% | -31.11% | -31.50% | -31.05% | -30.88% | -31.77% | -33.68% | -34.95% | -35.36% | |
| 2001 | 2,245,747 | 186,080 | 1,521,713 | (1,335,634) | -59.47% | -44.43% | -37.76% | -36.28% | -35.82% | -34.81% | -34.25% | -34.74% | -36.17% | -37.07% | |
| 2002 | 267,023 | \$6,396.46 | 1,177,045 | (1,170,649) | -438.41% | -99.74% | -61.69% | -48.88% | -44.80% | -43.07% | -41.04% | -39.85% | -39.83% | -40.72% | |
| 2003 | 1,321,734 | \$70,481.49 | 8,623 | 61,859 | 4.68% | -69.73% | -63.57% | -48.86% | -42.41% | -40.10% | -39.18% | -37.79% | -36.99% | -37.22% | |
| 2004 | 2,180,897 | \$515,567.28 | 372,909 | 142,658 | 8.54% | -32.60% | -25.83% | -22.46% | -21.99% | -24.72% | -33.78% | -33.78% | -32.83% | -25.54% | |
| 2005 | 3,285,767 | \$490,005.10 | 1,348,786 | (858,781) | -26.14% | -13.10% | -9.64% | -25.87% | -33.98% | -34.26% | -32.64% | -32.49% | -32.57% | -32.18% | |
| 2006 | 3,588,071 | \$578,188.59 | 1,216,234 | (638,045) | -17.78% | -17.78% | -14.96% | -12.45% | -12.14% | -29.47% | -30.67% | -29.97% | -30.19% | -30.46% | |
| 2007 | 6,258,148 | 681,882.43 | 3,036,373.43 | (2,354,491) | -37.62% | -30.39% | -29.33% | -24.22% | -21.92% | -28.50% | -32.14% | -32.59% | -31.80% | -31.78% | |
| 2008 | 6,843,323 | 1,074,260.89 | 1,662,865.20 | (588,604) | -8.60% | -22.46% | -21.46% | -22.23% | -19.40% | -18.04% | -22.77% | -25.94% | -27.04% | -27.00% | |
| 2009 | 4,581,574 | 435,034.28 | 1,876,982.35 | (1,441,948) | -31.47% | -17.77% | -24.80% | -23.61% | -23.95% | -21.46% | -20.23% | -24.18% | -26.77% | -27.63% | |
| 2010 | 5,179,417 | 571,162.57 | 1,512,856.92 | (941,694) | -18.18% | -24.42% | -19.90% | -23.30% | -22.55% | -22.95% | -22.93% | -19.91% | -23.25% | -25.52% | |
| 2011 | 9,863,338 | 776,236.48 | 2,802,065.45 | (2,025,829) | -20.52% | -19.71% | -22.46% | -18.88% | -22.46% | -22.09% | -22.09% | -20.65% | -22.03% | -22.03% | |
| 2012 | 7,598,664 | 593,007 | 3,088,170 | (2,495,162) | -32.84% | -25.88% | -24.12% | -25.88% | -21.99% | -24.79% | -23.87% | -24.03% | -22.68% | -21.97% | |
| 2013 | 7,305,864.41 | 1,637,565 | 3,265,206 | (1,627,641) | -22.88% | -27.66% | -24.82% | -23.67% | -24.70% | -22.04% | -24.09% | -23.65% | -23.00% | -22.63% | |
| 2014 | 8,867,420.47 | 2,002,597 | 5,200,285 | (3,197,688) | -36.06% | -29.84% | -30.79% | -27.78% | -26.50% | -27.02% | -24.52% | -25.97% | -25.48% | -25.51% | |
| 2015 | 6,966,420.18 | 300,048 | 3,003,725 | (2,703,677) | -38.81% | -37.27% | -32.54% | -32.61% | -32.61% | -28.37% | -28.66% | -27.38% | -26.26% | -26.86% | |
| 2016 | 2,840,964.44 | 218,763 | 5,047,648 | (4,828,885) | -169.97% | -76.81% | -57.46% | -47.57% | -44.23% | -38.85% | -36.65% | -36.20% | -33.06% | -33.49% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Underground Conduit Account 366 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 12,207 | 1,647 | 1,354 | 293 | 2.40% | | | | | | | | | | |
| 1951 | 10,409 | 870 | 683 | 187 | 1.80% | 2.12% | | | | | | | | | |
| 1952 | 19,407 | 1,945 | 2,080 | (135) | -0.70% | 0.17% | 0.82% | | | | | | | | |
| 1953 | 8,226 | 3,019 | 1,514 | 1,505 | 18.30% | 4.96% | 4.09% | 3.68% | | | | | | | |
| 1954 | 5,417 | 640 | 499 | 141 | 2.60% | 12.06% | 4.57% | 3.91% | 3.58% | | | | | | |
| 1955 | 6,073 | 492 | 1,779 | (1,287) | -21.19% | -9.97% | 1.82% | 0.57% | 0.83% | 1.14% | | | | | |
| 1956 | 27,113 | 3,770 | 6,185 | (2,415) | -8.91% | -11.16% | -9.22% | -4.39% | -3.31% | -2.61% | -1.93% | | | | |
| 1957 | 22,217 | 6,215 | 4,801 | 1,414 | 6.36% | -2.03% | -4.13% | -3.53% | -0.93% | -0.88% | -0.60% | -0.27% | | | |
| 1958 | 33,073 | 3,984 | 5,085 | (1,101) | -3.33% | 0.57% | -2.55% | -3.83% | -3.46% | -1.71% | -1.55% | -1.28% | -0.97% | | |
| 1959 | 46,508 | 2,679 | 7,852 | (5,173) | -15.22% | -13.29% | -14.53% | -13.29% | -15.14% | -12.97% | -12.59% | -11.81% | -11.00% | -3.45% | |
| 1960 | 9,760 | 2,516 | 2,278 | 238 | 2.44% | -8.77% | -6.76% | -4.14% | -5.07% | -5.45% | -4.52% | -3.83% | -3.22% | -3.45% | |
| 1961 | 18,699 | 2,882 | 2,991 | (109) | -0.58% | 0.45% | -6.73% | -5.69% | -3.63% | -4.54% | -5.16% | -4.91% | -3.83% | -3.52% | |
| 1962 | 71,602 | 4,325 | 9,478 | (5,153) | -7.20% | -5.83% | -5.02% | -6.96% | -6.29% | -4.90% | -5.37% | -5.78% | -5.59% | -4.80% | |
| 1963 | 28,679 | 2,092 | 10,094 | (8,002) | -27.90% | -13.12% | -11.15% | -10.12% | -10.38% | -9.26% | -7.76% | -7.88% | -8.19% | -7.97% | |
| 1964 | 64,509 | 2,062 | 10,198 | (8,136) | -12.61% | -12.92% | -12.92% | -11.66% | -10.95% | -10.98% | -10.06% | -8.82% | -8.83% | -9.06% | |
| 1965 | 107,616 | 5,297 | 25,292 | (19,995) | -18.57% | -16.34% | -17.99% | -15.15% | -14.22% | -13.68% | -13.33% | -12.46% | -11.43% | -11.27% | |
| 1966 | 97,080 | 3,169 | 12,141 | (8,972) | -9.24% | -14.15% | -23.22% | -19.82% | -15.14% | -13.60% | -12.97% | -12.59% | -11.81% | -11.00% | |
| 1967 | 100,758 | 2,186 | 14,937 | (12,751) | -12.66% | -10.98% | -13.65% | -13.47% | -14.51% | -13.40% | -12.91% | -12.48% | -11.96% | -11.96% | |
| 1968 | 153,763 | 1,264 | 16,202 | (14,938) | -9.71% | -10.88% | -10.43% | -12.34% | -12.37% | -13.18% | -12.49% | -12.14% | -11.93% | -11.87% | |
| 1969 | 47,362 | 2,231 | 11,081 | (8,850) | -18.69% | -11.83% | -12.10% | -11.41% | -12.93% | -12.89% | -13.61% | -12.93% | -12.59% | -12.38% | |
| 1970 | 115,293 | 27,677 | 12,374 | 15,303 | 13.27% | 3.97% | -2.68% | -5.09% | -5.87% | -8.07% | -8.50% | -9.28% | -9.09% | -8.89% | |
| 1971 | 28,305 | 107,839 | 4,197 | 103,642 | 366.16% | 82.83% | 57.65% | 27.60% | 18.50% | 13.53% | 8.22% | 6.34% | 5.02% | 3.95% | |
| 1972 | 94,916 | 58,587 | 6,053 | 52,504 | 55.32% | 126.72% | 71.88% | 58.88% | 33.59% | 24.96% | 19.76% | 14.22% | 12.08% | 10.71% | |
| 1973 | 74,941 | 4,053 | 4,667 | (614) | -0.82% | 30.55% | 78.49% | 54.50% | 44.89% | 28.59% | 21.83% | 17.59% | 12.85% | 10.99% | |
| 1974 | 62,399 | 100,932 | 9,912 | 90,020 | 155.82% | 193.03% | 239.22% | 204.87% | 112.47% | 60.73% | 41.95% | 33.84% | 28.44% | 22.71% | |
| 1975 | 47,348 | 59,204 | 6,160 | 53,044 | 112.03% | 134.91% | 79.84% | 71.51% | 98.60% | 75.35% | 65.89% | 47.27% | 38.94% | 33.25% | |
| 1976 | 65,310 | 7,541 | 13,377 | (5,836) | -8.94% | 41.90% | 81.25% | 56.65% | 56.28% | 79.78% | 64.09% | 56.77% | 41.95% | 34.99% | |
| 1977 | 94,788 | (147,647) | 12,009 | (159,656) | -168.43% | -103.37% | -54.21% | -6.46% | -5.23% | 7.84% | 29.51% | 26.30% | 22.92% | 16.52% | |
| 1978 | 81,337 | 93,985 | 27,880 | 66,105 | 81.27% | -53.12% | -41.17% | -16.05% | 11.28% | 11.28% | 19.30% | 37.17% | 33.03% | 29.59% | |
| 1979 | 51,770 | 252,268 | 17,178 | 235,090 | 454.10% | 226.28% | 62.11% | 46.28% | 55.42% | 70.42% | 59.25% | 58.60% | 73.08% | 63.46% | |
| 1980 | 87,626 | 263,113 | 35,592 | 227,121 | 259.19% | 331.58% | 239.35% | 116.84% | 95.27% | 97.12% | 104.14% | 90.23% | 85.21% | 96.76% | |
| 1981 | 153,243 | 285,943 | 48,113 | 237,830 | 155.20% | 193.03% | 239.22% | 204.87% | 112.47% | 60.73% | 41.95% | 33.84% | 28.44% | 22.71% | |
| 1982 | 70,298 | 88,384 | 67,679 | 705 | 1.00% | 106.71% | 149.65% | 193.08% | 172.61% | 112.64% | 99.50% | 100.41% | 104.94% | 94.90% | |
| 1983 | 87,920 | 136,677 | 48,879 | 87,798 | 98.86% | 55.94% | 104.77% | 138.68% | 174.90% | 160.59% | 110.85% | 100.35% | 104.39% | 94.90% | |
| 1984 | 89,831 | 58,144 | 37,340 | 20,804 | 23.16% | 61.10% | 44.07% | 86.50% | 117.45% | 149.69% | 140.74% | 99.86% | 90.77% | 91.99% | |
| 1985 | 125,149 | 428,363 | 43,028 | 385,335 | 307.90% | 188.92% | 163.07% | 132.54% | 139.14% | 156.27% | 179.43% | 168.74% | 130.78% | 120.72% | |
| 1986 | 98,818 | 446,485 | 51,961 | 394,524 | 399.24% | 348.20% | 255.15% | 221.17% | 188.38% | 180.24% | 189.95% | 207.83% | 195.67% | 158.98% | |
| 1987 | 156,712 | 774,890 | 102,067 | 672,823 | 429.34% | 417.70% | 381.60% | 313.17% | 279.58% | 248.44% | 230.16% | 233.09% | 245.51% | 232.19% | |
| 1988 | 136,359 | 472,096 | 57,192 | 414,904 | 304.27% | 371.15% | 372.23% | 361.21% | 311.17% | 284.43% | 258.39% | 241.17% | 242.74% | 253.08% | |
| 1989 | 230,601 | 342,776 | 134,559 | 208,217 | 90.22% | 169.81% | 247.47% | 271.57% | 277.65% | 250.35% | 236.05% | 219.46% | 214.81% | 214.31% | |
| 1990 | 1,253,640 | 544,563 | 106,837 | 437,726 | 34.92% | 34.92% | 45.52% | 65.46% | 97.54% | 113.44% | 125.60% | 121.20% | 120.33% | 116.61% | |
| 1991 | 265,292 | 283,435 | 124,229 | 159,206 | 60.01% | 39.30% | 46.02% | 64.69% | 92.67% | 106.82% | 117.92% | 114.31% | 113.79% | 110.63% | |
| 1992 | 679,154 | 257,592 | 189,751 | 67,841 | 9.99% | 24.04% | 30.24% | 35.94% | 50.21% | 72.04% | 83.50% | 93.04% | 90.97% | 91.22% | |
| 1993 | 236,075 | 22,618 | 126,605 | (103,987) | -44.05% | -3.95% | 10.42% | 23.04% | 28.86% | 42.27% | 62.77% | 73.65% | 82.86% | 81.23% | |
| 1994 | 207,963 | 355,249 | 97,881 | 257,368 | 123.76% | 34.54% | 19.70% | 27.40% | 30.97% | 35.73% | 47.90% | 66.78% | 76.84% | 85.37% | |
| 1995 | 157,297 | 176,532 | 124,802 | 51,730 | 32.89% | 84.62% | 34.11% | 21.32% | 27.96% | 31.07% | 35.58% | 47.15% | 65.18% | 74.82% | |
| 1996 | 75,286 | 43,887 | 114,590 | (70,503) | -93.65% | -8.07% | 54.16% | 19.89% | 14.93% | 22.31% | 27.81% | 32.45% | 43.88% | 61.66% | |
| 1997 | 178,315 | 832,358 | 75,488 | 756,870 | 424.46% | 270.65% | 179.63% | 160.85% | 104.27% | 62.53% | 50.79% | 53.74% | 63.72% | 63.72% | |
| 1998 | 409,975 | 270,319 | 123,277 | 147,042 | 35.87% | 153.65% | 125.59% | 107.83% | 111.05% | 82.10% | 56.91% | 57.28% | 49.19% | 51.75% | |
| 1999 | 534,118 | 169,728 | 118,914 | 53,814 | 10.08% | 21.28% | 85.33% | 74.08% | 69.30% | 76.54% | 60.72% | 46.82% | 48.09% | 43.96% | |
| 2000 | 265,029 | 130,300 | 77,995 | 52,305 | 19.74% | 13.28% | 20.94% | 72.80% | 64.23% | 61.19% | 68.31% | 55.46% | 44.20% | 45.59% | |
| 2001 | 138,922 | 17,074 | 63,950 | (46,876) | -33.74% | 1.34% | 6.32% | 15.30% | 63.10% | 55.73% | 53.69% | 49.83% | 40.44% | 40.44% | |
| 2002 | 46,710 | 1,180 | 54,777 | (53,597) | -114.74% | -54.12% | -10.69% | 0.57% | 10.95% | 57.82% | 50.90% | 49.33% | 57.02% | 46.41% | |
| 2003 | 210,418 | - | 2,981 | (2,981) | -1.42% | -22.00% | -26.12% | -7.74% | 0.22% | 9.33% | 50.83% | 44.98% | 44.04% | 51.49% | |
| 2004 | 82,286 | - | 93,947 | (93,947) | -114.16% | -33.11% | -44.33% | -44.33% | -19.52% | -7.15% | 3.30% | 33.23% | 38.23% | 37.83% | |
| 2005 | 368,295 | - | 463,130 | (463,130) | -125.75% | -123.63% | -84.73% | -86.71% | -78.02% | -54.71% | -33.69% | -19.82% | -15.64% | -12.08% | |
| 2006 | 749,130 | - | 150,174 | (150,174) | -20.05% | -54.89% | -58.95% | -50.37% | -52.43% | -50.80% | -40.76% | -29.42% | -19.88% | -6.68% | |
| 2007 | 216,824 | 0.00 | 544,491.27 | (544,491) | -251.12% | -71.91% | -87.77% | -88.37% | -77.12% | -78.17% | -74.77% | -62.71% | -47.83% | -36.47% | |
| 2008 | 174,689 | 0.00 | 120,236.12 | (120,236) | -68.83% | -169.78% | -71.44% | -84.70% | -86.22% | -76.32% | -77.29% | -74.24% | -63.19% | -49.14% | |
| 2009 | 116,985 | 0.00 | 197,695.85 | (197,696) | -168.99% | -109.00% | -169.60% | -80.52% | -90.76% | -91.89% | -81.97% | -82.75% | -79.51% | -68.41% | |
| 2010 | 3,903,611 | 0.00 | 117,180.54 | (117,181) | -3.00% | -7.83% | -10.37% | -22.20% | -21.89% | -20.06% | -29.02% | -29.02% | -29.71% | -29.80% | |
| 2011 | 253,040 | 0.00 | 706,007.49 | (706,007) | -278.64% | -114.89% | -139.57% | -139.57% | -36.13% | -33.91% | -39.75% | -40.80% | -40.80% | -40.80% | |
| 2012 | 416,672 | 103,903 | 432,654 | (328,750) | -78.00% | -154.42% | -25.19% | -28.77% | -30.21% | -39.64% | -37.12% | -42.33% | -43.33% | -41.97% | |
| 2013 | 218,642.00 | 141,133 | 957,849 | (816,716) | -373.54% | -180.30% | -208.32% | -41.08% | -44.13% | -44.98% | -53.41% | -49.28% | -53.67% | -54.43% | |
| 2014 | 167,675.00 | 37,893 | 890,788 | (852,894) | -508.66% | -432.19% | -248.87% | -255.99% | -56.89% | -59.47% | -59.78% | -67.37% | -61.67% | -65.25% | |
| 2015 | 401,496.00 | 120,987 | 694,992 | (574,004) | -142.97% | -250.70% | -284.79% | -213.57% | -224.86% | -63.33% | -65.59% | -65.69% | -72.54% | -66.60% | |
| 2016 | 136,937.00 | 140,373 | 1,273,473 | (1,133,100) | -827.46% | -317.05% | -362.55% | -365.15% | -276.23% | -276.60% | -82.36% | -84.17% | -83.70% | -89.75% | |

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| Xcel Energy Electric Plant Distribution Underground Conductor & Devices Account 367 1950-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 93,490 | 50,082 | 15,872 | 34,210 | 36.58% | | | | | | | | | | |
| 1951 | 63,913 | 50,965 | 10,902 | 40,063 | 62.68% | 47.19% | | | | | | | | | |
| 1952 | 183,359 | 130,411 | 26,746 | 103,665 | 56.54% | 58.13% | 52.22% | | | | | | | | |
| 1953 | 142,748 | 84,917 | 15,659 | 69,258 | 48.52% | 53.03% | 54.61% | 51.13% | | | | | | | |
| 1954 | 139,539 | 109,656 | 21,235 | 88,421 | 63.37% | 55.86% | 56.13% | 56.92% | 53.87% | | | | | | |
| 1955 | 59,026 | 37,807 | 9,315 | 28,492 | 48.27% | 58.88% | 54.55% | 55.24% | 56.05% | 53.38% | | | | | |
| 1956 | 114,496 | 95,809 | 27,870 | 67,939 | 59.34% | 55.57% | 59.05% | 55.75% | 55.98% | 56.58% | 54.24% | | | | |
| 1957 | 200,828 | 130,961 | 35,067 | 95,894 | 47.75% | 51.96% | 51.38% | 54.63% | 53.30% | 54.01% | 54.62% | 52.93% | | | |
| 1958 | 163,745 | 102,672 | 30,846 | 71,826 | 43.86% | 46.00% | 49.19% | 49.09% | 52.03% | 51.42% | 52.35% | 52.57% | 51.65% | | |
| 1959 | 111,972 | 42,772 | 20,593 | 22,179 | 39.85% | 39.85% | 39.85% | 44.05% | 47.67% | 44.05% | 47.67% | 47.67% | 49.82% | 48.85% | |
| 1960 | 140,008 | 101,055 | 22,854 | 78,201 | 55.85% | 39.84% | 41.42% | 43.48% | 45.97% | 46.14% | 48.72% | 48.70% | 49.84% | 50.46% | |
| 1961 | 89,736 | 40,290 | 17,472 | 22,818 | 25.43% | 43.97% | 36.05% | 38.58% | 41.19% | 43.72% | 44.03% | 46.67% | 46.90% | 48.21% | |
| 1962 | 262,727 | 89,462 | 29,894 | 59,568 | 22.67% | 23.37% | 32.61% | 30.24% | 33.14% | 36.17% | 38.62% | 39.12% | 41.76% | 42.43% | |
| 1963 | 221,768 | 104,079 | 30,371 | 73,708 | 33.24% | 27.51% | 27.18% | 32.80% | 31.04% | 33.16% | 35.62% | 37.70% | 38.16% | 40.50% | |
| 1964 | 212,267 | 91,610 | 36,742 | 54,868 | 25.85% | 29.62% | 27.00% | 26.82% | 31.21% | 29.98% | 31.87% | 34.14% | 36.05% | 36.50% | |
| 1965 | 420,593 | 218,442 | 60,327 | 158,115 | 37.59% | 33.65% | 33.55% | 30.99% | 30.58% | 33.20% | 32.18% | 33.35% | 34.94% | 36.38% | |
| 1966 | 506,932 | 342,511 | 75,339 | 267,172 | 52.70% | 45.85% | 42.13% | 40.68% | 37.77% | 37.17% | 38.53% | 37.47% | 37.96% | 38.80% | |
| 1967 | 233,695 | 158,930 | 33,859 | 125,071 | 53.52% | 52.96% | 47.39% | 44.06% | 42.56% | 39.05% | 39.09% | 40.21% | 39.17% | 39.50% | |
| 1968 | 521,097 | 346,413 | 65,328 | 281,085 | 53.94% | 53.81% | 53.37% | 49.42% | 46.78% | 45.36% | 42.86% | 42.22% | 42.95% | 42.00% | |
| 1969 | 199,084 | 43,031 | 43,959 | (928) | -0.47% | 38.90% | 42.48% | 46.03% | 44.14% | 42.29% | 41.42% | 39.51% | 39.04% | 39.88% | |
| 1970 | 379,618 | 278,850 | 43,497 | 235,353 | 62.00% | 40.51% | 46.87% | 48.04% | 49.32% | 47.14% | 45.31% | 44.32% | 42.40% | 41.90% | |
| 1971 | 215,316 | 200,327 | 45,394 | 154,933 | 71.96% | 65.60% | 49.04% | 50.98% | 51.36% | 51.69% | 49.30% | 47.45% | 46.36% | 44.40% | |
| 1972 | 322,236 | 292,825 | 44,356 | 248,469 | 77.11% | 75.04% | 69.64% | 57.14% | 56.12% | 55.80% | 55.14% | 52.50% | 50.62% | 49.43% | |
| 1973 | 271,263 | 132,263 | 35,840 | 97,091 | 35.79% | 58.22% | 61.88% | 61.92% | 52.97% | 53.23% | 53.20% | 53.16% | 51.02% | 49.40% | |
| 1974 | 501,161 | 301,661 | 821,035 | 751,022 | 149.87% | 105.69% | 105.69% | 85.00% | 85.00% | 73.33% | 73.33% | 71.58% | 68.54% | 64.90% | |
| 1975 | 357,319 | 257,860 | 63,168 | 194,692 | 54.49% | 110.17% | 92.31% | 88.94% | 86.74% | 82.15% | 74.83% | 70.90% | 69.54% | 67.11% | |
| 1976 | 470,001 | 322,925 | 93,103 | 229,822 | 48.90% | 51.31% | 88.49% | 79.55% | 79.14% | 78.42% | 75.94% | 70.34% | 67.70% | 66.75% | |
| 1977 | 739,923 | 451,934 | 146,640 | 305,294 | 41.26% | 44.23% | 46.57% | 71.59% | 67.44% | 68.61% | 68.86% | 68.06% | 64.12% | 62.78% | |
| 1978 | 638,793 | 546,069 | 124,182 | 421,887 | 66.04% | 51.77% | 51.77% | 52.21% | 70.29% | 67.14% | 68.12% | 68.35% | 67.73% | 64.42% | |
| 1979 | 672,919 | 638,122 | 147,498 | 62,122 | 9.24% | 69.57% | 59.36% | 57.41% | 57.05% | 70.81% | 68.21% | 68.33% | 69.08% | 68.49% | |
| 1980 | 888,210 | 759,053 | 194,068 | 564,985 | 63.61% | 67.62% | 67.16% | 60.64% | 59.02% | 58.59% | 69.31% | 67.31% | 67.96% | 68.13% | |
| 1981 | 1,019,372 | 1,181,797 | 219,113 | 962,684 | 94.44% | 80.85% | 78.23% | 75.80% | 69.34% | 67.17% | 74.15% | 72.28% | 67.55% | | |
| 1982 | 757,411 | 986,943 | 202,108 | 784,835 | 103.62% | 98.35% | 86.77% | 83.98% | 81.10% | 74.85% | 72.50% | 71.34% | 77.85% | 76.04% | |
| 1983 | 835,466 | 835,706 | 185,935 | 397,771 | 47.61% | 74.24% | 82.12% | 77.43% | 76.70% | 75.28% | 69.04% | 68.23% | 74.17% | | |
| 1984 | 1,292,634 | 684,497 | 344,377 | 340,120 | 26.31% | 34.67% | 52.77% | 63.65% | 63.64% | 64.78% | 64.91% | 62.36% | 61.49% | 61.17% | |
| 1985 | 1,513,861 | 980,441 | 251,807 | 728,634 | 48.13% | 38.08% | 40.27% | 51.17% | 59.31% | 59.92% | 61.17% | 61.58% | 59.78% | 59.20% | |
| 1986 | 1,455,156 | 1,947,266 | 262,666 | 1,684,600 | 115.77% | 81.28% | 64.61% | 61.82% | 67.23% | 71.26% | 70.39% | 70.59% | 70.27% | 68.08% | |
| 1987 | 2,004,356 | 1,825,561 | 222,726 | 1,702,835 | 84.96% | 97.92% | 82.67% | 71.12% | 68.35% | 71.75% | 74.36% | 73.38% | 73.93% | 72.93% | |
| 1988 | 1,919,447 | 1,454,247 | 349,073 | 1,105,174 | 57.58% | 71.56% | 83.52% | 75.75% | 67.94% | 66.06% | 68.97% | 71.37% | 70.78% | 70.90% | |
| 1989 | 2,647,807 | 2,020,800 | 342,965 | 1,677,835 | 63.37% | 60.93% | 68.26% | 76.87% | 72.31% | 68.82% | 65.45% | 67.77% | 69.81% | 69.11% | |
| 1990 | 2,499,163 | 2,617,246 | 301,019 | 2,316,227 | 92.68% | 77.60% | 72.16% | 74.99% | 80.63% | 76.54% | 71.67% | 70.25% | 71.95% | 73.38% | |
| 1991 | 2,299,456 | 934,202 | 362,628 | 571,574 | 24.86% | 60.18% | 61.31% | 60.55% | 64.85% | 70.63% | 68.25% | 64.78% | 63.91% | 65.66% | |
| 1992 | 3,833,100 | 1,551,960 | 513,259 | 1,038,701 | 27.10% | 26.26% | 45.49% | 49.69% | 50.83% | 55.33% | 60.61% | 59.57% | 57.36% | 56.96% | |
| 1993 | 3,381,693 | 1,203,248 | 402,337 | 800,911 | 24.41% | 25.86% | 25.61% | 39.68% | 43.99% | 45.57% | 49.84% | 54.65% | 54.19% | 52.61% | |
| 1994 | 2,349,744 | 605,218 | 266,802 | 338,416 | 14.40% | 20.23% | 23.01% | 23.37% | 35.52% | 39.88% | 41.68% | 45.84% | 50.41% | 50.26% | |
| 1995 | 2,680,366 | 1,490,184 | 269,941 | 1,220,243 | 45.53% | 30.99% | 28.39% | 27.98% | 27.48% | 37.10% | 40.65% | 42.16% | 45.81% | 49.89% | |
| 1996 | 2,735,038 | 1,791,968 | 343,383 | 1,448,605 | 52.99% | 49.28% | 38.73% | 34.47% | 32.57% | 31.54% | 39.31% | 42.16% | 43.55% | 46.55% | |
| 1997 | 3,142,168 | 1,115,533 | 438,616 | 676,917 | 21.54% | 36.17% | 39.10% | 33.78% | 31.61% | 30.65% | 29.99% | 36.86% | 39.62% | 40.87% | |
| 1998 | 5,347,677 | 1,336,742 | 434,643 | 902,099 | 16.87% | 18.60% | 26.97% | 30.55% | 28.21% | 27.57% | 27.50% | 27.26% | 33.06% | 35.67% | |
| 1999 | 5,617,672 | 1,676,053 | 513,006 | 1,163,047 | 20.70% | 18.83% | 19.44% | 24.88% | 27.22% | 26.29% | 26.04% | 26.18% | 26.08% | 31.01% | |
| 2000 | 5,265,406 | 885,172 | 384,847 | 500,325 | 9.50% | 15.28% | 15.81% | 16.74% | 21.22% | 23.85% | 23.03% | 23.18% | 23.62% | 23.69% | |
| 2001 | 5,171,356 | 79,102 | 548,632 | (469,530) | -9.08% | 0.30% | 7.44% | 9.79% | 11.30% | 15.47% | 18.16% | 17.89% | 18.49% | 19.33% | |
| 2002 | 3,761,758 | 90,112 | 272,122 | (182,010) | -4.84% | -7.29% | -1.07% | 5.11% | 7.61% | 9.15% | 13.01% | 15.60% | 15.52% | 16.26% | |
| 2003 | 1,478,221 | 78,826 | 6,220 | 72,607 | 4.91% | -2.09% | -5.56% | -0.50% | 5.09% | 7.46% | 8.94% | 12.64% | 15.15% | 15.10% | |
| 2004 | 2,482,444 | 586,853 | 190,960 | 395,893 | 15.95% | 11.83% | 3.71% | -1.45% | 1.75% | 6.23% | 8.18% | 9.48% | 12.88% | 15.20% | |
| 2005 | 4,275,419 | 637,591 | 1,669,831 | (1,032,240) | -24.14% | -9.42% | -8.65% | -6.22% | -7.08% | -3.19% | 1.60% | 4.04% | 5.55% | 8.85% | |
| 2006 | 2,307,106 | 371,771 | 519,822 | (148,050) | -6.42% | -17.93% | -8.65% | -6.25% | -7.00% | -3.49% | -0.99% | 0.99% | 3.37% | 4.84% | |
| 2007 | 1,825,678 | 308,130 | 1,246,596 | (938,466) | -51.40% | -26.97% | -25.20% | -15.82% | -13.34% | -11.36% | -10.81% | -6.78% | -1.98% | 0.70% | |
| 2008 | 2,991,702 | 469,636 | 541,188 | (71,552) | -2.39% | -2.93% | -16.25% | -19.21% | -12.93% | -11.21% | -9.96% | -9.77% | -6.34% | -2.02% | |
| 2009 | 3,401,648 | 322,997 | 624,811 | (301,814) | -8.87% | -5.84% | -15.96% | -13.87% | -16.84% | -12.13% | -10.79% | -9.79% | -9.66% | -6.60% | |
| 2010 | 3,636,044 | 400,966 | 440,597 | (38,630) | -1.09% | -4.85% | -4.12% | -11.40% | -10.59% | -13.73% | -10.21% | -9.58% | -8.58% | -6.66% | |
| 2011 | 4,936,222 | 387,026 | 76,428 | 310,598 | 1.56% | -1.56% | -2.22% | -2.25% | -7.61% | -7.46% | -10.52% | -7.59% | -7.59% | -7.59% | |
| 2012 | 3,247,752 | 83,129 | 85,123 | (2,994) | -0.09% | -8.52% | -6.33% | -6.33% | -6.09% | -10.23% | -9.83% | -12.13% | -9.74% | -9.03% | |
| 2013 | 3,526,934.14 | 46,991 | 775,578 | (728,587) | -20.66% | -22.14% | -12.18% | -9.55% | -9.43% | -8.46% | -11.79% | -11.31% | -13.13% | -10.92% | |
| 2014 | 4,342,169.08 | 12,589 | 778,974 | (766,384) | -17.65% | -19.00% | -13.37% | -13.67% | -11.34% | -10.98% | -9.99% | -12.70% | -12.22% | -13.70% | |
| 2015 | 4,186,323.80 | 297,233 | 893,960 | (596,727) | -14.25% | -15.98% | -20.38% | -18.71% | -13.79% | -11.85% | -11.48% | -10.58% | -12.90% | -12.47% | |
| 2016 | 2,301,387.61 | 332,010 | 5,469,141 | (5,137,131) | -223.22% | -88.38% | -60.02% | -50.35% | -45.44% | -35.20% | -30.46% | -27.97% | -25.62% | -26.99% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
Distribution Line Transformers Amortized
Account 368
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | 3,157,312 | 463,967 | 39,476 | 424,491 | 13.44% | | | | | | | | | |
| 2001 | 29,650 | 85,129 | 14,809 | 70,320 | 23.71% | 15.53% | | | | | | | | |
| 2002 | 2,025 | - | 45 | (45) | -2.22% | 221.86% | 15.51% | | | | | | | |
| 2003 | 64,060 | - | (1,881) | 1,881 | 2.94% | 2.78% | 75.37% | 15.27% | | | | | | |
| 2004 | 331,003 | 75,526 | 238,090 | (162,564) | -49.11% | -40.67% | -40.48% | -21.19% | 9.32% | | | | | |
| 2005 | 187,211 | 142,430 | 236,717 | (94,287) | -50.36% | -49.56% | -43.79% | -43.64% | -30.08% | 6.36% | | | | |
| 2006 | 46,568,279 | 441,331 | 285,212 | 156,119 | 0.34% | 0.13% | -0.21% | -0.21% | -0.06% | | 0.79% | | | |
| 2007 | 3,215,229 | 1,057,852 | 2,444,464 | (1,386,612) | -43.13% | -2.47% | -2.65% | -2.96% | -2.95% | -2.95% | -2.81% | -1.85% | | |
| 2008 | 3,984,588 | (17,746) | 131,949 | (149,695) | -3.76% | -21.34% | -2.57% | -2.73% | -3.02% | -3.01% | -3.01% | -2.88% | -1.98% | |
| 2009 | 5,751,237 * | - | 0 | 0 | 0.00% | -1.54% | -11.86% | -2.32% | -2.47% | -2.73% | -2.72% | -2.60% | -2.60% | -1.80% |
| 2010 | 13,890,058 * | 53,848 | 1,351,824 | (1,297,977) | -9.34% | -6.61% | -6.13% | -10.56% | -3.65% | -3.77% | -3.97% | -3.96% | -3.96% | -3.87% |
| 2011 | 6,846,074 * | - | 1,297 | (1,297) | -0.02% | -4.91% | -4.76% | -4.76% | -8.42% | -3.34% | -3.45% | -3.64% | -3.63% | -3.63% |
| 2012 | | 3,161 | | 3,161 | NA | 0.03% | -6.25% | -4.89% | -4.74% | -8.41% | -3.33% | -3.44% | -3.63% | -3.63% |
| 2013 | 7,923,285.00 | 77,228 | 1,963,283 | (1,886,055) | -23.80% | -23.76% | -12.76% | -11.10% | -9.25% | -8.68% | -11.34% | -5.17% | -5.43% | -5.43% |
| 2014 | 6,044,707.00 | | 633,047 | (633,047) | -10.47% | -18.03% | -18.01% | -12.09% | -10.99% | -9.43% | -8.92% | -11.23% | -5.51% | -5.60% |
| 2015 | 6,266,381.00 | | 626,212 | (626,212) | -9.99% | -10.23% | -15.54% | -15.53% | -11.61% | -10.84% | -9.51% | -11.09% | -8.05% | -5.79% |
| 2016 | 9,847,177.00 | | 154 | (154) | 0.00% | -3.69% | -5.68% | -10.46% | -10.45% | -8.51% | -8.74% | -7.65% | -7.58% | -9.37% |

* Includes 2012 Pro Forma Ret

Xcel Energy Electric Plant
Distribution Line Capacitors Amortized
Account 368
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | 152,100 | (2,012) | 4,585 | (6,597) | -4.34% | | | | | | | | | |
| 2001 | 115,175 | 2,576 | 4,000 | (1,424) | -1.24% | -3.00% | | | | | | | | |
| 2002 | 45,274 | 584 | 15,705 | (15,121) | -33.40% | -10.31% | -7.40% | | | | | | | |
| 2003 | 97,702 | - | 143 | (143) | -0.15% | -10.68% | -6.46% | -5.68% | | | | | | |
| 2004 | 101,497 | - | 14,090 | (14,090) | -13.88% | -7.15% | -12.01% | -8.56% | -7.30% | | | | | |
| 2005 | 114,920 | - | 28,728 | (28,728) | -25.00% | -19.79% | -13.68% | -16.16% | -12.54% | -10.55% | | | | |
| 2006 | 335,227 | - | 77,590 | (77,590) | -23.15% | -23.62% | -21.83% | -18.57% | -19.53% | -16.93% | -14.94% | | | |
| 2007 | 1,659,713 | - | 120,936 | (120,936) | -7.29% | -9.95% | -10.77% | -10.91% | -10.46% | -10.46% | -10.45% | -10.09% | | |
| 2008 | 190,808 | - | 19,204 | (19,204) | -10.06% | -7.57% | -9.96% | -10.71% | -10.85% | -10.43% | -10.84% | -10.42% | -10.09% | |
| 2009 | 148,111 | 9,193 | 55,287 | (46,093) | -31.12% | -19.27% | -9.32% | -11.30% | -11.95% | -12.02% | -11.59% | -11.95% | -11.51% | -11.14% |
| 2010 | 127,405 | 33,100 | 14,377 | 18,723 | 14.70% | -9.93% | -9.99% | -7.88% | -9.96% | -10.63% | -10.75% | -10.38% | -10.75% | -10.38% |
| 2011 | 119,973 | - | 67,746 | (67,746) | -56.47% | -19.82% | -24.05% | -19.50% | -10.47% | -12.12% | -12.67% | -12.71% | -12.29% | -12.61% |
| 2012 | 142,786 | 18,107 | 25,230 | (7,123) | -4.99% | -28.49% | -13.69% | -16.99% | -16.66% | -10.15% | -11.75% | -12.28% | -12.34% | -11.95% |
| 2013 | 110,393.92 | 23 | 48,373 | (48,350) | -43.80% | -21.91% | -33.02% | -20.88% | -23.22% | -20.23% | -11.63% | -12.99% | -13.46% | -13.48% |
| 2014 | 2,489,478.16 | 41,111 | 45,088 | (3,978) | -0.16% | -2.01% | -2.17% | -4.44% | -3.63% | -5.22% | -4.93% | -5.91% | -6.99% | -7.37% |
| 2015 | 410,776.66 | -7 | 51,544 | (51,551) | -12.55% | -1.91% | -3.45% | -3.52% | -5.46% | -4.71% | -5.81% | -6.03% | -6.41% | -7.39% |
| 2016 | 71,203.39 | 158 | 24,029 | (23,870) | -33.52% | -15.65% | -2.67% | -4.15% | -4.18% | -6.06% | -5.30% | -6.35% | -6.54% | -6.77% |

* Includes 2012 Pro Forma Ret

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Services - Overhead Account 369 1955-2016 | | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1955 | 78,289 | 44,068 | 41,401 | 2,667 | 3.41% | | | | | | | | | | |
| 1956 | 96,392 | 60,182 | 52,330 | 7,852 | 5.95% | | | | | | | | | | |
| 1957 | 116,813 | 53,514 | 63,107 | (9,593) | -7.98% | | | | | | | | | | |
| 1958 | 141,761 | 39,972 | 76,539 | (36,567) | -25.79% | -8.11% | 0.32% | | | | | | | | |
| 1959 | 128,718 | 43,153 | 78,309 | (35,156) | -27.31% | -26.52% | -21.00% | -15.13% | -12.55% | | | | | | |
| 1960 | 138,190 | 50,235 | 82,908 | (32,673) | -23.64% | -25.41% | -25.55% | -21.69% | -17.01% | -14.74% | | | | | |
| 1961 | 128,003 | 44,446 | 83,535 | (39,089) | -30.54% | -26.96% | -27.07% | -26.74% | -23.42% | -19.32% | -17.17% | | | | |
| 1962 | 150,353 | 61,503 | 100,337 | (38,834) | -25.83% | -27.99% | -26.55% | -26.73% | -26.54% | -23.87% | -20.40% | -18.50% | | | |
| 1963 | 136,839 | 49,547 | 90,344 | (40,797) | -29.81% | -27.73% | -28.59% | -27.36% | -27.35% | -27.08% | -24.74% | -21.64% | -19.89% | -19.89% | |
| 1964 | 129,314 | 53,320 | 95,879 | (42,559) | -32.91% | -31.32% | -29.44% | -28.41% | -28.64% | -27.87% | -25.73% | -22.89% | -21.24% | -21.24% | |
| 1965 | 155,344 | 96,462 | 43,246 | (43,246) | -27.84% | -30.14% | -30.04% | -28.93% | -29.22% | -28.30% | -28.17% | -27.87% | -25.99% | -23.47% | |
| 1966 | 147,049 | 77,054 | 113,521 | (36,467) | -24.80% | -26.36% | -28.32% | -28.68% | -28.09% | -28.46% | -27.78% | -27.73% | -27.51% | -25.87% | |
| 1967 | 173,647 | 70,291 | 141,052 | (40,761) | -40.75% | -33.44% | -31.61% | -31.89% | -31.51% | -30.55% | -30.55% | -29.72% | -29.48% | -29.12% | |
| 1968 | 159,731 | 77,731 | 145,742 | (68,011) | -42.58% | -41.63% | -36.48% | -34.37% | -34.12% | -33.47% | -32.38% | -32.18% | -31.28% | -30.93% | |
| 1969 | 179,189 | 79,641 | 176,224 | (96,583) | -53.90% | -48.56% | -46.92% | -41.21% | -38.66% | -37.87% | -36.85% | -35.51% | -35.04% | -33.99% | |
| 1970 | 185,653 | 83,915 | 173,043 | (89,128) | -48.01% | -50.90% | -48.37% | -46.47% | -42.70% | -40.39% | -39.54% | -38.49% | -37.14% | -36.60% | |
| 1971 | 190,904 | 58,777 | 186,492 | (127,715) | -66.90% | -57.59% | -56.40% | -53.31% | -50.86% | -47.16% | -44.64% | -42.21% | -40.68% | -40.68% | |
| 1972 | 204,596 | 62,561 | 196,611 | (136,030) | -65.51% | -61.8% | -60.38% | -58.85% | -56.02% | -53.60% | -50.19% | -47.70% | -46.45% | -45.08% | |
| 1973 | 214,283 | 76,809 | 182,391 | (105,582) | -49.27% | -57.20% | -60.24% | -57.38% | -56.74% | -54.75% | -52.89% | -50.05% | -47.91% | -46.79% | |
| 1974 | 240,907 | 85,789 | 185,355 | (99,566) | -41.13% | -45.07% | -51.41% | -54.88% | -53.65% | -52.40% | -50.62% | -48.81% | -47.05% | -45.92% | |
| 1975 | 245,205 | 93,618 | 204,763 | (111,145) | -45.33% | -43.35% | -45.16% | -49.76% | -52.75% | -52.06% | -52.29% | -51.33% | -50.30% | -48.37% | |
| 1976 | 290,507 | 70,301 | 192,046 | (121,745) | -41.91% | -43.47% | -42.81% | -44.21% | -47.85% | -50.47% | -50.18% | -49.90% | -49.13% | -48.13% | |
| 1977 | 333,693 | 74,177 | 202,641 | (128,464) | -38.50% | -40.08% | -41.56% | -41.51% | -42.77% | -45.81% | -48.15% | -48.14% | -48.63% | -48.20% | |
| 1978 | 359,362 | 54,690 | 326,604 | (271,914) | -75.67% | -67.77% | -53.08% | -51.54% | -49.86% | -49.79% | -51.49% | -52.91% | -52.50% | -52.61% | |
| 1979 | 413,293 | 87,968 | 479,709 | (391,711) | -94.78% | -81.1% | -71.55% | -69.42% | -68.22% | -68.22% | -68.22% | -68.22% | -68.22% | -68.22% | |
| 1980 | 404,209 | 142,608 | 550,526 | (407,918) | -100.92% | -97.81% | -91.05% | -79.44% | -73.39% | -70.02% | -67.00% | -65.48% | -65.49% | -65.58% | |
| 1981 | 401,709 | 466,315 | 531,504 | (65,189) | -16.23% | -58.70% | -70.93% | -72.01% | -66.16% | -62.96% | -61.20% | -59.42% | -58.67% | -59.12% | |
| 1982 | 375,243 | 141,582 | 394,170 | (252,588) | -67.31% | -40.90% | -61.44% | -70.08% | -71.11% | -66.35% | -63.60% | -62.01% | -60.38% | -59.66% | |
| 1983 | 341,936 | 158,070 | 282,496 | (124,426) | -36.39% | -52.57% | -39.52% | -55.82% | -64.13% | -65.94% | -62.45% | -60.41% | -59.24% | -57.98% | |
| 1984 | 318,512 | 305,507 | 349,803 | (44,296) | -13.91% | -25.55% | -40.68% | -33.85% | -48.57% | -57.04% | -59.60% | -57.21% | -55.84% | -55.10% | |
| 1985 | 374,154 | 206,022 | 447,537 | (241,515) | -64.55% | -41.26% | -39.65% | -47.01% | -40.19% | -51.27% | -58.11% | -60.22% | -58.04% | -56.74% | |
| 1986 | 287,274 | 174,066 | 362,817 | (206,751) | -72.67% | -68.07% | -50.47% | -46.63% | -51.36% | -44.63% | -53.72% | -59.54% | -61.31% | -59.20% | |
| 1987 | 311,152 | 167,006 | 369,964 | (202,958) | -65.2% | -68.80% | -67.18% | -54.03% | -50.33% | -53.51% | -47.23% | -54.99% | -60.09% | -61.65% | |
| 1988 | 303,333 | 218,902 | 360,992 | (142,090) | -46.84% | -56.15% | -61.41% | -62.33% | -52.66% | -49.79% | -52.63% | -47.24% | -54.20% | -58.95% | |
| 1989 | 317,185 | 108,619 | 357,208 | (248,589) | -78.37% | -62.96% | -63.72% | -65.83% | -65.53% | -56.93% | -53.81% | -55.74% | -50.50% | -56.43% | |
| 1990 | 363,158 | 276,239 | 337,830 | (61,591) | -16.96% | -45.59% | -45.98% | -50.60% | -54.61% | -56.51% | -50.55% | -48.70% | -51.03% | -46.91% | |
| 1991 | 330,587 | 229,707 | 331,833 | (102,126) | -30.89% | -23.60% | -40.78% | -42.18% | -46.59% | -50.51% | -52.81% | -48.05% | -46.70% | -49.03% | |
| 1992 | 339,603 | 47,509 | 409,498 | (361,989) | -106.59% | -69.25% | -50.87% | -57.33% | -55.41% | -56.96% | -58.97% | -54.80% | -52.89% | -52.89% | |
| 1993 | 322,985 | 14,027 | 365,822 | (351,795) | -108.92% | -107.73% | -82.15% | -64.70% | -67.29% | -64.15% | -64.30% | -65.23% | -65.14% | -60.15% | |
| 1994 | 300,586 | 25,875 | 345,031 | (319,156) | -106.18% | -107.60% | -107.24% | -87.73% | -72.22% | -73.21% | -69.70% | -69.16% | -68.94% | -68.94% | |
| 1995 | 300,617 | 34,172 | 337,189 | (303,017) | -100.80% | -103.49% | -105.39% | -105.11% | -90.20% | -76.61% | -76.61% | -73.32% | -72.45% | -72.47% | |
| 1996 | 435,457 | 38,479 | 349,321 | (310,842) | -71.38% | -83.40% | -90.00% | -94.50% | -96.91% | -86.16% | -75.66% | -75.98% | -73.04% | -72.31% | |
| 1997 | 249,074 | 54,203 | 258,592 | (204,389) | -82.06% | -75.27% | -83.06% | -88.46% | -92.57% | -95.01% | -85.71% | -76.26% | -76.49% | -73.73% | |
| 1998 | 524,311 | 79,562 | 419,657 | (340,095) | -64.87% | -70.40% | -70.76% | -76.74% | -81.63% | -85.76% | -88.62% | -81.81% | -74.38% | -74.74% | |
| 1999 | 388,976 | 52,904 | 345,228 | (292,324) | -75.15% | -69.25% | -71.99% | -71.83% | -76.41% | -80.48% | -84.12% | -86.79% | -81.00% | -74.46% | |
| 2000 | 461,222 | 27,061 | 357,227 | (330,166) | -71.59% | -73.22% | -70.03% | -71.88% | -71.77% | -75.47% | -78.94% | -82.19% | -84.88% | -79.81% | |
| 2001 | 354,711 | 13,184 | 426,128 | (412,944) | -116.42% | -91.07% | -85.93% | -79.86% | -78.33% | -78.33% | -80.82% | -83.35% | -85.82% | -87.74% | |
| 2002 | 249,468 | 19,893 | 259,969 | (240,075) | -96.23% | -100.8% | -92.28% | -87.70% | -81.65% | -81.70% | -80.01% | -82.12% | -84.33% | -86.55% | |
| 2003 | - | - | 45,729 | (45,729) | NA | -114.57% | -115.65% | -96.58% | -90.85% | -83.96% | -83.75% | -81.73% | -83.66% | -85.73% | |
| 2004 | 52,804 | - | 124,165 | (124,165) | -235.14% | -321.75% | -135.63% | -125.26% | -103.12% | -95.90% | -87.89% | -87.25% | -84.71% | -86.31% | |
| 2005 | 144,545 | - | 285,411 | (285,411) | -197.46% | -207.54% | -230.71% | -155.63% | -138.28% | -113.92% | -104.79% | -95.17% | -93.82% | -90.41% | |
| 2006 | 979,421 | - | 375,647 | (375,647) | -38.35% | -58.81% | -66.73% | -70.61% | -75.09% | -83.32% | -80.91% | -80.06% | -77.53% | -77.87% | |
| 2007 | 81,302 | - | 1,336,427 | (1,336,427) | -1643.77% | -161.41% | -165.73% | -168.64% | -172.28% | -159.69% | -151.45% | -135.60% | -126.93% | -116.88% | |
| 2008 | 1,633,914 | - | 617,067 | (617,067) | -37.77% | -113.89% | -86.44% | -92.09% | -94.70% | -96.28% | -96.28% | -96.28% | -96.28% | -93.41% | |
| 2009 | 36,807 | - | 669,233 | (669,233) | -1816.20% | -76.9% | -149.70% | -109.77% | -114.16% | -116.36% | -117.32% | -116.22% | -116.08% | -116.08% | |
| 2010 | 773,153 | - | 557,916 | (557,916) | -72.16% | -151.51% | -75.46% | -125.8% | -101.47% | -105.28% | -107.13% | -108.36% | -107.60% | -108.33% | |
| 2011 | 909,949 | - | 574,424 | (574,424) | -63.13% | -67.28% | -104.75% | -72.12% | -109.31% | -93.57% | -96.86% | -98.45% | -99.44% | -99.27% | |
| 2012 | 371,600 | 3,002 | 643,882 | (640,880) | -172.47% | -94.83% | -86.30% | -116.87% | -82.13% | -115.48% | -99.70% | -102.56% | -103.97% | -104.88% | |
| 2013 | 528,693.00 | 4,172 | 604,319 | (600,147) | -113.52% | -137.85% | -100.29% | -91.87% | -116.12% | -86.03% | -115.24% | -101.07% | -103.62% | -104.88% | |
| 2014 | 142,101.00 | 8,385 | 410,583 | (402,198) | -283.04% | -149.43% | -157.64% | -113.59% | -101.84% | -124.71% | -92.39% | -120.56% | -105.81% | -108.17% | |
| 2015 | 181,650.00 | 2,958 | 669,866 | (666,908) | -367.14% | -303.22% | -195.82% | -188.73% | -135.17% | -118.41% | -139.67% | -103.30% | -130.18% | -114.23% | |
| 2016 | 598,408.00 | 2,346 | 666,118 | (663,772) | -110.92% | -170.59% | -187.92% | -160.80% | -163.18% | -129.86% | -117.14% | -134.81% | -104.18% | -127.99% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Services - Underground Account 369 1955-2016 | | | | | | | | | | | | | | | |
|---|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1955 | 15,561 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1956 | 21,535 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1957 | 33,188 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1958 | 35,437 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1959 | 39,164 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1960 | 29,921 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1961 | 37,698 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1962 | 78,921 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1963 | 63,080 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1964 | 59,551 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1965 | 38,834 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1966 | 42,790 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1967 | 32,324 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1968 | 28,758 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1969 | 36,639 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1970 | 20,722 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1971 | 51,365 | 7,629 | 9,816 | (2,187) | -4.28% | -3.03% | -2.01% | -1.59% | -1.29% | -1.03% | -0.87% | -0.70% | -0.58% | -0.48% | |
| 1972 | 21,618 | 6,241 | 4,505 | 1,736 | 8.03% | -0.62% | -0.48% | -0.35% | -0.28% | -0.24% | -0.19% | -0.14% | -0.11% | -0.09% | |
| 1973 | 12,215 | 1,842 | 5,016 | (3,174) | -25.98% | -4.25% | -4.25% | -3.42% | -2.54% | -2.12% | -1.78% | -1.47% | -1.27% | -1.05% | |
| 1974 | 59,025 | 37,755 | 10,328 | 27,427 | 46.47% | 34.04% | 27.99% | 16.50% | 14.43% | 11.81% | 10.33% | 9.06% | 7.79% | 6.91% | |
| 1975 | 37,490 | 14,128 | 6,717 | 7,411 | 19.77% | 36.10% | 29.12% | 25.62% | 17.18% | 15.42% | 13.06% | 11.65% | 10.40% | 9.10% | |
| 1976 | 36,134 | 13,424 | 9,811 | 3,613 | 10.00% | 14.97% | 28.99% | 24.35% | 15.99% | 14.60% | 12.65% | 11.46% | 10.36% | 9.10% | |
| 1977 | 42,703 | 9,697 | 9,683 | 14 | 0.03% | 4.60% | 9.49% | 21.94% | 18.82% | 17.70% | 13.37% | 12.39% | 10.96% | 10.05% | |
| 1978 | 34,048 | 18,302 | 7,475 | 10,827 | 31.80% | 14.72% | 12.80% | 14.54% | 23.54% | 20.81% | 19.67% | 15.50% | 14.48% | 12.98% | |
| 1979 | 52,347 | 12,078 | 9,332 | 2,746 | 5.25% | 10.52% | 11.84% | 10.65% | 11.84% | 19.65% | 17.62% | 16.92% | 13.78% | 13.00% | |
| 1980 | 49,478 | 15,843 | 15,337 | 506 | 1.02% | 2.60% | 9.92% | 7.56% | 7.97% | 9.72% | 16.69% | 15.08% | 14.64% | 12.19% | |
| 1981 | 98,858 | 15,858 | 18,490 | (2,632) | -2.66% | -1.43% | 0.01% | 4.62% | 3.91% | 4.62% | 6.23% | 12.02% | 10.93% | 10.78% | |
| 1982 | 43,641 | 18,004 | 15,589 | 2,415 | 5.53% | -0.15% | 0.15% | 1.00% | 4.76% | 4.13% | 4.73% | 6.16% | 11.40% | 10.42% | |
| 1983 | 65,978 | 9,466 | 18,018 | (8,552) | -12.96% | -5.60% | -4.21% | -3.20% | -1.97% | 1.37% | 1.22% | 1.97% | 3.42% | 8.31% | |
| 1984 | 37,283 | 129,166 | 15,003 | 114,163 | 306.21% | 102.28% | 73.54% | 42.88% | 35.87% | 31.08% | 31.15% | 28.02% | 26.60% | 26.09% | |
| 1985 | 65,036 | 169,810 | 21,408 | 148,402 | 228.18% | 256.61% | 159.93% | 120.99% | 81.66% | 70.59% | 62.15% | 59.84% | 54.62% | 51.55% | |
| 1986 | 100,730 | 269,003 | 27,453 | 241,550 | 239.80% | 235.24% | 248.27% | 184.21% | 159.27% | 120.37% | 107.56% | 97.01% | 92.95% | 86.23% | |
| 1987 | 38,717 | 154,076 | 19,941 | 134,135 | 346.45% | 269.41% | 256.30% | 263.99% | 204.62% | 179.89% | 139.81% | 126.07% | 114.50% | 109.70% | |
| 1988 | 74,248 | 293,910 | 20,441 | 273,469 | 368.32% | 360.82% | 303.78% | 286.14% | 288.51% | 236.44% | 212.76% | 172.16% | 157.41% | 144.59% | |
| 1989 | 169,392 | 59,375 | 21,720 | 37,655 | 22.23% | 127.70% | 157.69% | 179.28% | 186.38% | 195.58% | 170.63% | 158.52% | 135.56% | 126.60% | |
| 1990 | 120,584 | 310,179 | 12,478 | 297,701 | 246.88% | 115.65% | 167.16% | 184.38% | 195.47% | 199.21% | 205.79% | 184.31% | 173.41% | 152.04% | |
| 1991 | 131,823 | 271,154 | 8,896 | 262,258 | 198.95% | 221.85% | 141.68% | 175.60% | 187.97% | 196.19% | 199.16% | 204.57% | 186.71% | 177.38% | |
| 1992 | 499,644 | 159,773 | 21,882 | 137,891 | 27.60% | 63.37% | 92.79% | 79.82% | 101.33% | 110.51% | 127.74% | 121.98% | 133.11% | 125.72% | |
| 1993 | 255,702 | 127,189 | 13,467 | 113,722 | 44.47% | 33.31% | 57.92% | 80.53% | 72.14% | 89.72% | 97.42% | 107.73% | 113.11% | 117.93% | |
| 1994 | 36,913 | 138,817 | 8,874 | 129,943 | 352.03% | 83.27% | 48.16% | 69.67% | 90.13% | 80.65% | 97.23% | 104.50% | 114.05% | 119.02% | |
| 1995 | 83,862 | 168,189 | 15,740 | 152,449 | 181.79% | 233.82% | 105.22% | 60.95% | 79.00% | 96.94% | 87.19% | 102.40% | 109.10% | 117.81% | |
| 1996 | 104,526 | 223,492 | 21,081 | 202,411 | 193.65% | 188.37% | 215.18% | 124.43% | 75.09% | 89.77% | 105.14% | 95.12% | 108.86% | 114.93% | |
| 1997 | 79,911 | 333,743 | 25,611 | 308,132 | 385.59% | 276.81% | 247.11% | 259.80% | 161.64% | 98.49% | 109.60% | 122.20% | 110.78% | 102.06% | |
| 1998 | 71,191 | 37,307 | 9,144 | 28,163 | 39.56% | 222.56% | 210.74% | 203.59% | 218.14% | 147.89% | 94.78% | 105.65% | 117.95% | 107.52% | |
| 1999 | 90,394 | 81,695 | 13,289 | 68,406 | 75.68% | 59.76% | 176.58% | 175.45% | 176.69% | 190.55% | 138.86% | 93.37% | 103.65% | 115.36% | |
| 2000 | 24,903 | 82,666 | 7,259 | 75,407 | 302.80% | 124.73% | 92.22% | 180.22% | 184.00% | 183.60% | 196.24% | 144.32% | 97.55% | 107.25% | |
| 2001 | 43,576 | 567 | 6,891 | (6,324) | -14.51% | 100.88% | 86.54% | 72.00% | 152.85% | 163.13% | 166.27% | 178.08% | 135.57% | 93.77% | |
| 2002 | 250,811 | 0 | 2,994 | (2,993) | -1.19% | -3.16% | 20.70% | 32.83% | 33.83% | 33.83% | 101.19% | 110.21% | 121.56% | 102.64% | |
| 2003 | - | - | 397 | (397) | NA | -1.35% | -3.30% | 20.57% | 32.73% | 33.74% | 83.88% | 101.13% | 110.16% | 121.51% | |
| 2004 | 19,082 | - | 29,045 | (29,045) | -152.21% | -152.29% | -12.02% | -12.36% | -10.83% | 24.50% | 26.65% | 76.11% | 94.06% | 103.64% | |
| 2005 | 26,575 | - | 20,900 | (20,900) | -78.64% | -109.39% | -110.26% | -17.99% | -17.54% | 4.32% | 18.48% | 21.33% | 69.33% | 87.61% | |
| 2006 | 441,544 | - | 29,724 | (29,724) | -6.73% | -16.31% | -10.81% | -16.43% | -16.43% | -11.44% | -1.73% | 6.07% | 8.53% | 37.28% | |
| 2007 | 47,883 | - | (16,799) | 16,799 | 35.08% | -2.64% | -6.56% | -11.75% | -11.82% | -8.43% | -8.75% | 0.33% | 7.54% | 9.78% | |
| 2008 | 192,597 | - | 50,960 | (50,960) | -26.46% | -14.21% | -9.37% | -11.97% | -15.64% | -15.70% | -11.98% | -12.09% | -4.60% | 1.78% | |
| 2009 | 94,303 | - | 22,993 | (22,993) | -24.38% | -25.78% | -17.07% | -11.19% | -13.42% | -16.65% | -16.69% | -13.13% | -6.23% | 0.22% | |
| 2010 | 681,237 | - | 26,478 | (26,478) | -3.89% | -6.38% | -10.37% | -8.23% | -7.78% | -9.05% | -10.86% | -10.89% | -9.50% | -9.62% | |
| 2011 | 2,711,802 | - | 40,934 | (40,934) | -1.51% | -1.99% | -2.59% | -3.84% | -3.34% | -4.11% | -4.18% | -4.85% | -4.85% | -4.65% | |
| 2012 | 14,872 | 549 | 29,850 | (29,301) | -197.02% | -2.58% | -2.84% | -3.42% | -4.62% | -4.11% | -4.39% | -4.86% | -5.52% | -5.53% | |
| 2013 | 52,766.00 | 6,274 | 32,865 | (26,591) | -50.39% | -82.63% | -3.48% | -3.56% | -4.12% | -5.26% | -4.75% | -4.96% | -5.42% | -6.07% | |
| 2014 | 24,955.00 | 8,985 | 27,479 | (18,494) | -74.11% | -58.01% | -80.34% | -4.11% | -4.07% | -4.60% | -5.72% | -5.21% | -5.37% | -5.82% | |
| 2015 | 39,837.00 | 1,352 | 26,438 | (25,086) | -62.97% | -67.26% | -59.69% | -75.11% | -4.94% | -4.73% | -5.25% | -6.32% | -5.80% | -5.90% | |
| 2016 | 253,785.00 | 2,868 | 96,575 | (93,707) | -36.92% | -40.46% | -43.09% | -44.13% | -50.02% | -7.56% | -6.90% | -7.32% | -8.23% | -7.72% | |

NA - Not applicable

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
Distribution Meters
Account 370 Amortized
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | 10,592,788 | 42,596 | (30,318) | 72,914 | 0.69% | | | | | | | | | |
| 2001 | 3,182 | 85,129 | 14,809 | 70,320 | 2209.92% | 1.35% | | | | | | | | |
| 2002 | | 75,526 | 45 | 75,481 | NA | 4582.04% | 2.06% | | | | | | | |
| 2003 | | 142,430 | (1,881) | 144,310 | NA | NA | 9117.24% | 3.43% | | | | | | |
| 2004 | | 441,331 | 238,090 | 203,240 | NA | NA | NA | 15504.41% | 5.34% | | | | | |
| 2005 | | | 236,717 | (236,717) | NA | NA | NA | NA | 8065.18% | 3.11% | | | | |
| 2006 | 22,937,302 | | 285,212 | (285,212) | -1.24% | -2.28% | -1.39% | -0.76% | -0.43% | | 0.13% | | | |
| 2007 | 2,666,205 | | 789,129 | (789,129) | -29.60% | -4.20% | -5.12% | -4.33% | -3.76% | | -3.19% | | -2.06% | |
| 2008 | 3,503,616 | | - | 0 | 0.00% | -12.79% | -3.69% | -4.50% | -3.81% | | -3.31% | | -3.05% | -1.88% |
| 2009 | | | - | 0 | NA | 0.00% | -12.79% | -3.69% | -4.50% | | -3.81% | | -3.05% | -2.81% |
| 2010 | | 2,583 | 493,066 | (490,483) | NA | NA | -14.00% | -20.74% | -5.38% | | -6.19% | | -5.00% | -4.74% |
| 2011 | | | - | 0 | NA | NA | NA | -14.00% | -20.74% | | -5.38% | | -5.00% | -4.74% |
| 2012 | | | - | 0 | NA | NA | NA | NA | -14.00% | | -5.38% | | -5.00% | -4.74% |
| 2013 | 0.00 | 18,007 | 587,691 | (569,684) | NA | NA | NA | NA | NA | | -30.26% | | -29.97% | -7.33% |
| 2014 | 5,067,823.04 | | 7,983 | (249,747) | -4.77% | -16.01% | -16.01% | -16.01% | -25.69% | | -25.69% | | -15.19% | -18.61% |
| 2015 | 4,471,117.39 | | 24,493 | (359,190) | -8.03% | -6.30% | -12.27% | -12.27% | -12.27% | | -17.41% | | -17.41% | -15.60% |
| 2016 | 5,082,204.03 | | 2,373 | 2,373 | 0.05% | -3.74% | -4.05% | -7.99% | -7.99% | | -7.99% | | -11.34% | -11.34% |

Xcel Energy Electric Plant
Distribution Meters - Old
Account 370 Amortized
2009-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | | | | | | | |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|-------|-------|-------|-------|-------|--|--|
| 2009 | 4,990,401 * | | | 0 | 0.00% | | | | | | | | | |
| 2010 | 6,616,114 * | | | 0 | 0.00% | 0.00% | | | | | | | | |
| 2011 | 3,451,141 * | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2012 | | | | 0 | NA | 0.00% | 0.00% | 0.00% | | | | | | |
| 2013 | 1,949,431.00 | 0 | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2014 | 0.00 | 0 | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2015 | 0.00 | 0 | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2016 | | 0 | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |

* Includes Pro Forma 2012 Ret

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant Distribution Street Lighting & Signal Systems Account 373 1955-2016 | | | | | | | | | | | | | | | |
|---|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1955 | 46,282 | 13,024 | 8,558 | 4,466 | 9.86% | | | | | | | | | | |
| 1956 | 98,064 | 19,123 | 12,940 | 6,183 | 6.31% | | | | | | | | | | |
| 1957 | 113,535 | 32,939 | 21,055 | 11,884 | 10.47% | | | | | | | | | | |
| 1958 | 97,968 | 28,008 | 19,741 | 8,267 | 8.44% | | | | | | | | | | |
| 1959 | 104,720 | 15,232 | 19,566 | (4,334) | -4.14% | | | | | | | | | | |
| 1960 | 112,863 | 21,037 | 26,653 | (5,616) | -4.98% | | | | | | | | | | |
| 1961 | 84,664 | 15,472 | 18,249 | (2,777) | -3.28% | | | | | | | | | | |
| 1962 | 108,867 | 18,231 | 24,511 | (6,280) | -5.77% | | | | | | | | | | |
| 1963 | 135,027 | 18,581 | 32,482 | (13,901) | -10.29% | | | | | | | | | | |
| 1964 | 147,858 | 23,380 | 33,157 | (9,777) | -6.61% | | | | | | | | | | |
| 1965 | 198,411 | 24,400 | 40,946 | (16,546) | -8.34% | | | | | | | | | | |
| 1966 | 390,977 | 33,420 | 29,982 | 3,438 | 0.88% | | | | | | | | | | |
| 1967 | 781,062 | 29,859 | 36,922 | (7,063) | -0.90% | | | | | | | | | | |
| 1968 | 832,357 | 36,970 | 39,968 | (2,998) | -0.36% | | | | | | | | | | |
| 1969 | 649,596 | 38,158 | 46,613 | (8,455) | -1.30% | | | | | | | | | | |
| 1970 | 582,796 | 39,239 | 48,774 | (9,535) | -1.64% | | | | | | | | | | |
| 1971 | 191,907 | 26,443 | 29,395 | (2,952) | -1.54% | | | | | | | | | | |
| 1972 | 153,187 | 29,621 | 27,405 | 2,216 | 1.45% | | | | | | | | | | |
| 1973 | 139,929 | 30,069 | 24,328 | 5,741 | 4.10% | | | | | | | | | | |
| 1974 | 210,094 | 97,205 | 33,006 | 64,199 | 30.56% | | | | | | | | | | |
| 1975 | 182,139 | 37,490 | 33,513 | 3,977 | 2.18% | | | | | | | | | | |
| 1976 | 234,657 | 55,269 | 48,488 | 6,781 | 2.89% | | | | | | | | | | |
| 1977 | 178,395 | 42,481 | 50,131 | (7,650) | -4.29% | | | | | | | | | | |
| 1978 | 196,377 | 61,339 | 58,076 | 3,263 | 1.64% | | | | | | | | | | |
| 1979 | 177,221 | 65,899 | (8,889) | (72,788) | -8.18% | | | | | | | | | | |
| 1980 | 176,462 | 58,673 | 68,525 | (9,852) | -5.58% | | | | | | | | | | |
| 1981 | 148,300 | 53,533 | 77,910 | (24,377) | -16.44% | | | | | | | | | | |
| 1982 | 136,777 | 40,811 | 60,339 | (19,528) | -14.28% | | | | | | | | | | |
| 1983 | 118,008 | 31,606 | 52,320 | (20,714) | -17.55% | | | | | | | | | | |
| 1984 | 716,245 | 50,749 | 159,086 | (108,337) | -15.13% | | | | | | | | | | |
| 1985 | 1,387,873 | 34,400 | 259,605 | (225,205) | -16.23% | | | | | | | | | | |
| 1986 | 1,035,741 | 33,923 | 200,721 | (166,798) | -16.10% | | | | | | | | | | |
| 1987 | 1,333,674 | 25,766 | 199,503 | (173,747) | -13.03% | | | | | | | | | | |
| 1988 | 683,151 | 19,557 | 112,551 | (92,994) | -13.61% | | | | | | | | | | |
| 1989 | 275,407 | 30,142 | 61,300 | (31,158) | -11.31% | | | | | | | | | | |
| 1990 | 137,365 | 25,917 | 42,208 | (16,291) | -11.86% | | | | | | | | | | |
| 1991 | 148,600 | 17,776 | 48,019 | (30,243) | -20.35% | | | | | | | | | | |
| 1992 | 133,996 | 34,465 | 49,760 | (15,295) | -11.41% | | | | | | | | | | |
| 1993 | 128,840 | 27,467 | 59,703 | (32,236) | -25.02% | | | | | | | | | | |
| 1994 | 165,798 | 71,286 | 53,578 | 17,708 | 10.68% | | | | | | | | | | |
| 1995 | 138,413 | (24,541) | 53,423 | (77,964) | -56.33% | | | | | | | | | | |
| 1996 | 110,953 | 28,296 | 55,590 | (27,294) | -24.60% | | | | | | | | | | |
| 1997 | 97,668 | 53,905 | 70,996 | (17,091) | -17.50% | | | | | | | | | | |
| 1998 | 176,142 | 34,429 | 92,376 | (57,947) | -32.90% | | | | | | | | | | |
| 1999 | 200,837 | 6,915 | 13,148 | (6,233) | -3.10% | | | | | | | | | | |
| 2000 | 258,392 | 17,517 | 13,006 | 4,511 | 1.75% | | | | | | | | | | |
| 2001 | 327,424 | 19,419 | 136,277 | (116,858) | -36.30% | | | | | | | | | | |
| 2002 | 364,343 | - | 257,437 | (257,437) | -70.66% | | | | | | | | | | |
| 2003 | 133,071 | - | (845) | 845 | 0.64% | | | | | | | | | | |
| 2004 | 370,266 | - | 24,804 | (24,804) | -6.70% | | | | | | | | | | |
| 2005 | 234,515 | - | 58,178 | (58,178) | -24.81% | | | | | | | | | | |
| 2006 | 4,732,477 | - | 296,301 | (296,301) | -6.26% | | | | | | | | | | |
| 2007 | 454,489 | - | 969,243 | (969,243) | -213.26% | | | | | | | | | | |
| 2008 | 495,677 | - | 258,771 | (258,771) | -52.21% | | | | | | | | | | |
| 2009 | 577,607 | - | 363,620 | (363,620) | -62.95% | | | | | | | | | | |
| 2010 | 611,057 | - | 397,877 | (397,877) | -65.11% | | | | | | | | | | |
| 2011 | 600,195 | - | 570,644 | (570,644) | -95.08% | | | | | | | | | | |
| 2012 | 550,748 | 359,943 | 834,043 | (474,100) | -86.08% | | | | | | | | | | |
| 2013 | 807,528.00 | 218,771 | 617,051 | (398,280) | -49.32% | | | | | | | | | | |
| 2014 | 376,866.00 | 89,037 | 587,748 | (498,711) | -132.33% | | | | | | | | | | |
| 2015 | 652,821.00 | 114,164 | 350,716 | (236,552) | -36.24% | | | | | | | | | | |
| 2016 | 293,379.00 | 88,302 | 901,658 | (813,356) | -277.24% | | | | | | | | | | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Electric Plant General Structures & Improvements Account 390 1950-2016 | | | | | | | | | | | | | | | |
|---|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|---------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % | |
| 1950 | 8,368 | 562 | 4,542 | (3,980) | -47.56% | | | | | | | | | | |
| 1951 | 17,051 | 21 | 7,873 | (7,852) | -46.05% | -46.55% | | | | | | | | | |
| 1952 | 48,689 | 1,703 | 19,553 | (17,850) | -36.66% | -39.10% | -40.05% | | | | | | | | |
| 1953 | 39,826 | 1,725 | 4,665 | 7,060 | 17.73% | -17.66% | -19.86% | | | | | | | | |
| 1954 | 170,321 | 21,151 | 16,302 | 4,849 | 2.85% | 5.67% | -2.30% | -5.00% | -6.25% | | | | | | |
| 1955 | 15,097 | 1,360 | 20,247 | (18,887) | -125.10% | -7.57% | -3.10% | -9.06% | -11.23% | -12.25% | | | | | |
| 1956 | 19,329 | 2,974 | 2,005 | 969 | 5.01% | -52.05% | -6.38% | -2.46% | -8.14% | -10.22% | -11.20% | | | | |
| 1957 | 27,144 | 198 | 6,831 | (6,633) | -24.44% | -12.19% | -39.87% | -8.50% | -4.65% | -9.52% | -11.36% | -12.24% | | | |
| 1958 | 14,118 | 330 | 4,361 | (4,031) | -28.55% | -25.84% | -16.00% | -37.76% | -9.65% | -5.83% | -10.32% | -12.05% | | | |
| 1959 | 184,559 | 13,742 | 92,612 | (78,870) | -42.73% | -47.23% | -39.53% | -37.19% | -41.23% | -23.85% | -20.31% | -21.84% | -12.88% | -22.61% | -23.00% |
| 1960 | 38,326 | 5,016 | 4,632 | 384 | 1.00% | -35.21% | -34.82% | -33.75% | -31.11% | -35.86% | -31.11% | -18.71% | -20.27% | -21.04% | |
| 1961 | 3,018,865 | 801,784 | 239 | 801,545 | 26.55% | 26.23% | 22.30% | 22.08% | 21.70% | 21.60% | 20.93% | 20.05% | 20.02% | 19.25% | |
| 1962 | 4,983 | - | 2,969 | (2,969) | -59.58% | 26.41% | 26.00% | 22.18% | 21.96% | 21.58% | 21.48% | 20.81% | 19.94% | 19.91% | |
| 1963 | 16,456 | 2,115 | 6,274 | (4,159) | -25.27% | -33.25% | 26.13% | 25.82% | 21.94% | 21.72% | 21.34% | 21.25% | 20.59% | 19.73% | |
| 1964 | 58,623 | 1,219 | 5,201 | (3,982) | -6.79% | -10.84% | -13.88% | 25.51% | 25.21% | 21.43% | 21.22% | 20.85% | 20.76% | 20.11% | |
| 1965 | 138,600 | 10 | 840 | (830) | -0.60% | -2.44% | -4.20% | -5.46% | 24.39% | 24.12% | 20.55% | 20.35% | 20.00% | 19.92% | |
| 1966 | 9,482 | 57 | 1,297 | (1,240) | -13.08% | -1.40% | -2.93% | -4.59% | -5.78% | 24.28% | 24.01% | 20.46% | 20.26% | 19.91% | |
| 1967 | 3,590 | 42 | 507 | (465) | -12.95% | -13.04% | -1.67% | -3.10% | -4.71% | -5.89% | 24.24% | 23.97% | 20.42% | 20.23% | |
| 1968 | 38,389 | - | 16,611 | (16,611) | -43.27% | -40.68% | -35.59% | -10.07% | -9.30% | -10.28% | -11.20% | 23.45% | 23.19% | 19.73% | |
| 1969 | 4,894 | 28 | 10,469 | (10,441) | -213.34% | -62.50% | -58.71% | -51.03% | -15.18% | -13.24% | -13.97% | -14.80% | 23.10% | 22.84% | |
| 1970 | 80,081 | 4 | 2,009 | (2,005) | -2.50% | -14.65% | -23.55% | -23.25% | -22.55% | -11.49% | -10.66% | -11.35% | -12.03% | 22.49% | |
| 1971 | 223,260 | 1,190 | 14,412 | (13,222) | -5.92% | -5.02% | -8.33% | -12.20% | -12.20% | -8.99% | -8.99% | -8.76% | -9.24% | -6.71% | |
| 1972 | 9,972 | 92,338 | 2,730 | 89,608 | 898.60% | 32.75% | 23.74% | 20.09% | 13.27% | 13.01% | 12.34% | 8.81% | 7.20% | 6.28% | |
| 1973 | 182,754 | 91,086 | 87,807 | 48,056 | 48.05% | 92.06% | 39.47% | 32.65% | 30.29% | 25.06% | 24.80% | 24.15% | 19.09% | 17.16% | |
| 1974 | 19,416 | (250) | 2,019 | (2,669) | -13.68% | -47.23% | -32.55% | -37.02% | 31.02% | 28.72% | 23.78% | 23.54% | 22.34% | 18.35% | |
| 1975 | 48,158 | 1,141 | 4,161 | (3,020) | -6.27% | -7.83% | 32.96% | 66.13% | 32.86% | 27.84% | 25.76% | 21.39% | 21.19% | 20.67% | |
| 1976 | 69,932 | - | 10,371 | (10,371) | -14.83% | -11.34% | -11.39% | 22.53% | 48.98% | 26.84% | 23.13% | 21.31% | 17.65% | 17.49% | |
| 1977 | 42,429 | 14,997 | 17,385 | (2,388) | -5.63% | -11.36% | -9.83% | -10.03% | 19.23% | 42.76% | 24.52% | 21.32% | 19.64% | 16.28% | |
| 1978 | 186,485 | 75,155 | 3,055 | 72,100 | 38.66% | 30.45% | 19.86% | 16.23% | 14.75% | 25.83% | 41.40% | 27.89% | 25.07% | 23.73% | |
| 1979 | 29,138 | 1,986 | 2,767 | (781) | -2.68% | 33.08% | 26.71% | 17.85% | 14.77% | 13.47% | 24.39% | 39.21% | 26.80% | 24.16% | |
| 1980 | 6,370 | - | 7,709 | (7,709) | -121.02% | -23.91% | 28.65% | 23.15% | 15.21% | 12.50% | 11.34% | 22.81% | 37.50% | 25.65% | |
| 1981 | 173,834 | 111,604 | 18,817 | 92,817 | 53.38% | 47.21% | 40.27% | 35.14% | 28.26% | 25.12% | 24.03% | 23.82% | 41.09% | 29.82% | |
| 1982 | 14,412 | 761 | 42,927 | (42,166) | -292.58% | 26.89% | 22.65% | 18.83% | 27.84% | 24.71% | 19.42% | 17.25% | 16.30% | 23.80% | |
| 1983 | 98,647 | 84,795 | 18,951 | 65,844 | 66.75% | 20.94% | 40.60% | 37.08% | 33.49% | 35.39% | 32.23% | 26.93% | 24.54% | 23.52% | |
| 1984 | 54,190 | - | 156,565 | (156,565) | -288.92% | -59.36% | -79.45% | -11.76% | -13.76% | -12.90% | 4.18% | 3.49% | 1.59% | 1.07% | |
| 1985 | 57,917 | 29,112 | 31,629 | (2,517) | -4.35% | -141.90% | -44.24% | -60.14% | -10.68% | -12.41% | -11.76% | 3.38% | 2.80% | 1.12% | |
| 1986 | 52,461 | 175 | 51,635 | (51,460) | -98.09% | -48.90% | -127.94% | -54.97% | -67.31% | -20.84% | -22.23% | -21.06% | -4.52% | -4.59% | |
| 1987 | 143,639 | 19 | 24,340 | (24,321) | -16.93% | -38.64% | -30.82% | -76.20% | -41.54% | -50.13% | -19.90% | -20.97% | -20.12% | -6.71% | |
| 1988 | 56,321 | 3,758 | 19,941 | (16,183) | -28.73% | -20.26% | -36.43% | -30.44% | -68.87% | -39.99% | -47.61% | -20.68% | -21.63% | -20.83% | |
| 1989 | 88,645 | - | 8,541 | (8,541) | -9.64% | -17.06% | -16.99% | -29.47% | -25.82% | -57.28% | -35.11% | -41.66% | -19.24% | -20.21% | |
| 1990 | 380,465 | 341,363 | 49,050 | 292,313 | 76.83% | 60.49% | 50.93% | 36.36% | 26.58% | 24.29% | 3.93% | 3.93% | 10.57% | 13.31% | |
| 1991 | 97,856 | (1,666) | 27,014 | (28,680) | -29.31% | 55.12% | 44.99% | 38.33% | 27.98% | 19.91% | 18.31% | 0.43% | 6.78% | 2.65% | |
| 1992 | 28,292 | 8,252 | 562 | 7,690 | 27.18% | -16.64% | 53.55% | 44.15% | 37.85% | 27.95% | 20.15% | 18.58% | 1.22% | 7.33% | |
| 1993 | 3,657 | 500 | 139,211 | (138,711) | -3793.03% | -410.09% | -123.03% | 25.99% | 20.72% | 16.47% | 10.46% | 3.77% | 3.25% | -13.18% | |
| 1994 | 27,352 | (140) | 1,474 | (1,614) | -5.90% | -452.53% | -223.66% | -102.65% | -24.37% | 19.55% | 15.57% | 9.92% | 3.47% | 2.99% | |
| 1995 | 2,121,264 | 181,208 | 118,450 | 62,758 | 2.96% | 3.85% | -3.60% | -3.20% | -4.33% | 7.29% | 6.74% | 6.03% | 4.91% | 3.11% | |
| 1996 | 100,321 | 1,353,834 | - | 1,353,834 | 1341.48% | 63.75% | 62.90% | 56.64% | 56.28% | 52.76% | 56.08% | 54.03% | 52.43% | 49.16% | |
| 1997 | 47,802 | - | - | 0 | 0.00% | 910.31% | 62.41% | 61.59% | 55.47% | 55.12% | 51.72% | 55.12% | 53.14% | 51.58% | |
| 1998 | 436,461 | (33,522) | - | (33,522) | -7.68% | -6.92% | 225.62% | 51.10% | 50.53% | 45.40% | 45.21% | 42.66% | 46.67% | 45.17% | |
| 1999 | 11,020 | (5,000) | - | (5,000) | -45.37% | -8.61% | -7.78% | 220.61% | 50.71% | 45.03% | 45.03% | 42.33% | 44.86% | 46.36% | |
| 2000 | 183,259 | (89,376) | - | (89,376) | -48.77% | -48.58% | -20.28% | -18.85% | 157.28% | 44.43% | 43.96% | 39.17% | 39.06% | 36.87% | |
| 2001 | 7,625 | - | 19,756 | (19,756) | -259.09% | -57.17% | -56.53% | -23.13% | -21.52% | 153.25% | 43.63% | 43.17% | 38.40% | 38.29% | |
| 2002 | - | - | - | 0 | NA | -259.09% | -57.17% | -56.53% | -23.13% | -21.52% | 153.25% | 43.63% | 43.17% | 38.40% | |
| 2003 | - | - | - | 0 | NA | NA | -259.09% | -57.17% | -56.53% | -23.13% | -21.52% | 153.25% | 43.63% | 43.17% | |
| 2004 | - | - | - | 0 | NA | NA | NA | -259.09% | -57.17% | -56.53% | -23.13% | -21.52% | 153.25% | 43.63% | |
| 2005 | 13,252 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -94.63% | -53.46% | -53.05% | -22.66% | -21.11% | 150.71% | |
| 2006 | 75,451 | - | 37,835 | (37,835) | -50.15% | -42.65% | -42.65% | -42.65% | -42.65% | -59.79% | -52.57% | -52.29% | -25.51% | -22.94% | |
| 2007 | 370,702 | - | 101,088 | (101,088) | -27.27% | -31.14% | -30.24% | -30.24% | -30.24% | -30.24% | -33.98% | -38.15% | -38.27% | -26.11% | |
| 2008 | 108,034 | - | 14,085 | (14,085) | -13.04% | -24.06% | -27.61% | -26.96% | -26.96% | -26.96% | -26.96% | -30.04% | -34.57% | -34.72% | |
| 2009 | - | - | - | 0 | NA | -13.04% | -24.06% | -27.61% | -26.96% | -26.96% | -26.96% | -26.96% | -30.04% | -34.57% | |
| 2010 | 60,021 | 9,266 | 101 | 9,166 | 15.27% | 15.27% | -2.93% | -19.68% | -23.42% | -22.92% | -22.92% | -22.92% | -22.92% | -25.76% | |
| 2011 | 226,373 | - | 276,688 | (276,288) | -122.04% | -93.26% | -83.26% | -71.23% | -49.96% | -49.96% | -49.20% | -49.20% | -49.20% | -49.20% | |
| 2012 | 730,840 | - | 401,976 | (401,976) | -50.83% | -66.68% | -62.41% | -62.41% | -57.64% | -50.40% | -50.39% | -49.98% | -49.98% | -49.98% | |
| 2013 | 3,173,978 | - | 275,876 | (275,876) | -8.69% | -17.10% | -22.76% | -22.23% | -22.23% | -22.00% | -22.41% | -22.85% | -22.79% | -22.79% | |
| 2014 | 649,654 | - | 160,606 | (160,606) | -24.72% | -11.42% | -18.17% | -23.03% | -22.56% | -22.56% | -22.35% | -22.69% | -23.07% | -23.02% | |
| 2015 | 1,474,613 | 127,990 | 160,947 | (32,957) | -2.23% | -9.11% | -8.86% | -14.31% | -18.17% | -17.86% | -17.86% | -18.29% | -18.29% | -18.64% | |
| 2016 | 373,209 | - | 142,899 | (142,899) | -38.29% | -5.25% | -13.47% | -10.80% | -15.70% | -19.30% | -18.99% | -18.99% | -18.99% | -19.32% | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Office Furniture & Equipment
 Account 391
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | 102,809 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2004 | 173,148 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 878,542 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 6,886 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 44,975 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 2,279,663 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 318,903 | - | 44,017 | (44,017) | -13.80% | -1.69% | -1.69% | -1.67% | -1.67% | -1.66% | -1.66% | -1.25% | -1.19% | -1.16% |
| 2013 | 69,718 | - | 448 | (448) | -0.64% | -11.44% | -1.67% | -1.67% | -1.67% | -1.64% | -1.63% | -1.63% | -1.24% | -1.18% |
| 2014 | - | - | 4,528 | (4,528) | NA | -7.14% | -12.61% | -1.84% | -1.84% | -1.84% | -1.81% | -1.81% | -1.80% | -1.36% |
| 2015 | 527,953 | - | - | 0 | 0.00% | -0.86% | -0.83% | -5.35% | -1.53% | -1.53% | -1.53% | -1.51% | -1.51% | -1.51% |
| 2016 | 167,132 | - | - | 0 | 0.00% | 0.00% | -0.65% | -0.65% | -4.52% | -1.46% | -1.46% | -1.46% | -1.44% | -1.43% |

Xcel Energy Electric Plant
 General Network Equipment
 Account 391
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | 16,391,725 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 3,665,195 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 3,406,259 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 1,371,227 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 2,157,135 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 317,956 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 141,404 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 5,220,532 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 5,676,931 | | 2,012 | (2,012) | -0.03% | -0.02% | -0.02% | -0.02% | -0.02% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% |
| 2013 | 1,096,352 | | 500 | (500) | -0.05% | -0.04% | -0.02% | -0.02% | -0.02% | -0.02% | -0.02% | -0.02% | -0.01% | -0.01% |
| 2014 | 2,792,103 | | - | 0 | 0.00% | -0.01% | -0.03% | -0.02% | -0.02% | -0.02% | -0.02% | -0.02% | -0.01% | -0.01% |
| 2015 | 174,104 | | 54,922 | (54,922) | -31.55% | -1.85% | -1.36% | -0.58% | -0.38% | -0.38% | -0.38% | -0.37% | -0.32% | -0.30% |
| 2016 | 2,576,703 | | - | 0 | 0.00% | -2.00% | -0.99% | -0.83% | -0.46% | -0.32% | -0.32% | -0.32% | -0.32% | -0.28% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Transportation Equipment - Automobiles
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | | | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | - | | | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | | | |
| 2007 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 2008 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | 8,718 | - | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | 55,724 | | 55,724 | NA | 639.18% | 639.18% | 639.18% | 639.18% | 639.18% | 639.18% | 639.18% | 639.18% | 639.18% |

Xcel Energy Electric Plant
 General Transportation Equipment - Light Trucks
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | 288,226 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 37,508 | | (5,114) | 5,114 | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% | 1.57% | 1.57% | | | |
| 2007 | - | | | 0 | NA | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% | 1.57% | | | |
| 2008 | - | | | 0 | NA | NA | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% | 1.57% | | |
| 2009 | - | | | 0 | NA | NA | NA | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% | 1.57% | 1.57% |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% | 1.57% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | 13.63% | 13.63% | 1.57% | 1.57% | 1.57% |
| 2012 | - | | | 0 | NA | NA | NA | NA | NA | NA | 13.63% | 13.63% | 1.57% | 1.57% |
| 2013 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | 13.63% | 13.63% | 1.57% |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 13.63% | 13.63% |
| 2015 | 57,114 | 16,243 | (12,529) | 28,772 | 50.38% | 50.38% | 50.38% | 50.38% | 50.38% | 50.38% | 50.38% | 50.38% | 50.38% | 35.81% |
| 2016 | 653,030 | 387,136 | - | 387,136 | 59.28% | 58.57% | 58.57% | 58.57% | 58.57% | 58.57% | 58.57% | 58.57% | 58.57% | 58.57% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Transportation Equipment - Trailers
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | - | | | 0 | NA | | | | | | | | | |
| 2004 | 795,516 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2005 | 10,448 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 17,000 | | (2,948) | 2,948 | 17.34% | 10.74% | 0.36% | 0.36% | 0.36% | 0.36% | 0.36% | | | |
| 2007 | - | | | 0 | NA | 17.34% | 10.74% | 0.36% | 0.36% | 0.36% | 0.36% | 0.36% | | |
| 2008 | - | | | 0 | NA | 17.34% | 10.74% | 0.36% | 0.36% | 0.36% | 0.36% | 0.36% | 0.36% | |
| 2009 | 347,741 | | 50 | (50) | -0.01% | -0.01% | -0.01% | 0.79% | 0.77% | 0.25% | 0.25% | 0.25% | 0.25% | 0.25% |
| 2010 | - | | | 0 | NA | -0.01% | -0.01% | -0.01% | 0.79% | 0.77% | 0.25% | 0.25% | 0.25% | 0.25% |
| 2011 | - | | | 0 | NA | NA | -0.01% | -0.01% | -0.01% | 0.79% | 0.77% | 0.25% | 0.25% | 0.25% |
| 2012 | - | | | 0 | NA | NA | NA | -0.01% | -0.01% | 0.79% | 0.77% | 0.25% | 0.25% | 0.25% |
| 2013 | - | | | 0 | NA | NA | NA | NA | -0.01% | -0.01% | -0.01% | 0.79% | 0.77% | 0.25% |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | -0.01% | -0.01% | -0.01% | 0.79% | 0.77% |
| 2015 | 38,497 | 17,009 | (25,923) | 42,932 | 111.52% | 111.52% | 111.52% | 111.52% | 111.52% | 111.52% | 11.10% | 11.10% | 11.10% | 11.37% |
| 2016 | 30,514 | 407,078 | - | 407,078 | 1334.07% | 652.08% | 652.08% | 652.08% | 652.08% | 652.08% | 652.08% | 107.97% | 107.97% | 107.97% |

Xcel Energy Electric Plant
 General Transportation Equipment - Heavy Trucks
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | - | | | 0 | NA | | | | | | | | | |
| 2004 | 11,702,759 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2006 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2007 | - | | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | | | | |
| 2008 | - | | | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | | | 0 | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | | 1,396 | (1,396) | NA | NA | NA | NA | NA | NA | -0.01% | -0.01% | -0.01% | -0.01% |
| 2011 | - | | 1,318 | (1,318) | NA | NA | NA | NA | NA | NA | NA | -0.02% | -0.02% | -0.02% |
| 2012 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | -0.02% | -0.02% |
| 2013 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | -0.02% |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | - | 45,063 | (35,336) | 80,399 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | - | 1,589,313 | - | 1,589,313 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Stores Equipment
 Account 393
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | 2,370 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 262,619 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 122,766 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 312,985 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 707,060 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 261,474 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | 66,914 | - | (2,508) | 2,508 | 3.75% | 0.76% | 0.76% | 0.24% | 0.24% | 0.24% | 0.24% | 0.19% | 0.19% | 0.19% |
| 2015 | 57,769 | - | - | 0 | 0.00% | 2.01% | 0.65% | 0.65% | 0.23% | 0.23% | 0.23% | 0.23% | 0.18% | 0.18% |
| 2016 | 75,371 | - | - | 0 | 0.00% | 0.00% | 1.25% | 0.54% | 0.54% | 0.21% | 0.21% | 0.21% | 0.21% | 0.17% |

Xcel Energy Electric Plant
 General Tools, Shop & Garage Equipment
 Account 394
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | 959,246 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 592,001 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 1,441,978 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 1,768,422 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 20,819 | | (5) | 5 | 0.02% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 7,705,069 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 2,283,581 | | 1,050 | (1,050) | -0.05% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | 0.00% | -0.01% | -0.01% |
| 2009 | 5,215,159 | | (0) | 0 | 0.00% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% |
| 2010 | - | - | - | 0 | NA | 0.00% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% |
| 2011 | 2,914,764 | - | 11,284 | (11,284) | -0.39% | -0.39% | -0.14% | -0.12% | -0.07% | -0.07% | -0.06% | -0.06% | -0.06% | -0.05% |
| 2012 | 1,019,225 | 384 | (5,648) | 6,032 | 0.59% | -0.13% | -0.13% | -0.06% | -0.06% | -0.03% | -0.03% | -0.03% | -0.03% | -0.03% |
| 2013 | 1,884,820 | | 12,921 | (12,921) | -0.69% | -0.24% | -0.31% | -0.31% | -0.16% | -0.14% | -0.09% | -0.09% | -0.08% | -0.08% |
| 2014 | 919,705 | | 18,037 | (18,037) | -1.96% | -1.10% | -0.65% | -0.54% | -0.30% | -0.28% | -0.17% | -0.17% | -0.17% | -0.16% |
| 2015 | 3,325,572 | | | 0 | 0.00% | -0.42% | -0.51% | -0.35% | -0.36% | -0.24% | -0.24% | -0.21% | -0.15% | -0.15% |
| 2016 | 2,209,131 | | | 0 | 0.00% | 0.00% | -0.28% | -0.37% | -0.27% | -0.30% | -0.30% | -0.21% | -0.19% | -0.14% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Laboratory Equipment
 Account 395
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | 2,490,202 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 1,818,219 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 1,449,240 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 236,767 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 637,170 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 566,020 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 601,436 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 372,410 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 1,341,983 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 157,716 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 308,567 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | 892,983 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 283,177 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 474,723 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Xcel Energy Electric Plant
 General Power Operated Equipment
 Account 396
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | 1,757,950 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | - | | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 3,419 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | 6,805 | (6,805) | NA | NA | NA | NA | -199.02% | -199.02% | -199.02% | -199.02% | -199.02% | -0.39% |
| 2013 | - | | | 0 | NA | NA | NA | NA | NA | -199.02% | -199.02% | -199.02% | -199.02% | -0.39% |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | -199.02% | -199.02% | -199.02% | -199.02% | -199.02% |
| 2015 | 52,719 | 65,252 | (35,816) | 101,068 | 191.71% | 191.71% | 191.71% | 178.80% | 178.80% | 178.80% | 178.80% | 178.80% | 178.80% | 167.91% |
| 2016 | 828,369 | 2,414,653 | | 2,414,653 | 291.49% | 285.52% | 285.52% | 285.52% | 284.75% | 284.75% | 284.75% | 284.75% | 283.65% | 283.65% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Communication Equipment
 Account 397
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | 1,725 | | | 0 | 0.00% | 0.00% | | | | | | | | |
| 2002 | 3,048,699 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 4,493,608 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 1,250,459 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 1,034,055 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 154,493 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 307,626 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 268,137 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 1,333 | | 6,635 | (6,635) | -497.63% | -497.63% | -2.46% | -1.15% | -0.91% | -0.38% | -0.22% | -0.22% | -0.09% | -0.06% |
| 2012 | 337,112 | | 3,561 | (3,561) | -1.06% | -3.01% | -3.01% | -1.68% | -1.12% | -0.95% | -0.48% | -0.30% | -0.30% | -0.13% |
| 2013 | 119,530 | | 455 | (455) | -0.38% | -0.88% | -2.33% | -2.33% | -1.47% | -1.03% | -0.90% | -0.48% | -0.31% | -0.31% |
| 2014 | 512,066 | | | 0 | 0.00% | -0.07% | -0.41% | -1.10% | -1.10% | -0.86% | -0.69% | -0.63% | -0.39% | -0.27% |
| 2015 | 128,665 | | | 0 | 0.00% | 0.00% | -0.06% | -0.37% | -0.97% | -0.97% | -0.78% | -0.64% | -0.58% | -0.37% |
| 2016 | 59,926 | | | 0 | 0.00% | 0.00% | 0.00% | -0.06% | -0.35% | -0.92% | -0.92% | -0.75% | -0.61% | -0.56% |

Xcel Energy Electric Plant
 General Communication Equipment - AES
 Account 397
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | 495,151 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 135,108 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 192,849 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 466,761 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 16,505 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 98,210 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 193,513 | | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 19,682 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | | (35,336) | 35,336 | NA | NA | 179.53% | 179.53% | 16.57% | 16.57% | 11.35% | 11.35% | 10.78% | 4.45% |
| 2016 | 147,907 | | - | 0 | 0.00% | 23.89% | 23.89% | 21.08% | 21.08% | 9.79% | 9.79% | 7.69% | 7.69% | 7.43% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Electric Plant
 General Communication Equipment - EMS
 Account 397
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2001 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2002 | 495,151 | - | - | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 135,108 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 192,849 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 466,761 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 16,505 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 98,210 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 193,513 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 19,682 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 147,907 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Xcel Energy Electric Plant
 General Miscellaneous Equipment
 Account 398
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2001 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2002 | 265,784 | - | - | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 5,643 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 27,038 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 22,629 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 4,327 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | 84,227 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 58,129 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | - | 9,876 | (9,876) | 0.00% | NA | NA | NA | -16.99% | -6.94% | -6.73% | -5.83% | -4.89% | -4.89% |
| 2013 | 13,712 | - | - | 0 | 0.00% | -72.02% | -72.02% | -72.02% | -13.75% | -8.33% | -8.16% | -5.40% | -4.70% | -4.58% |
| 2014 | - | - | - | 0 | NA | 0.00% | -72.02% | -72.02% | -13.75% | -6.33% | -6.16% | -5.40% | -4.70% | -4.58% |
| 2015 | 11,893 | - | (1) | 1 | 0.01% | 0.01% | 0.00% | -38.57% | -38.57% | -38.57% | -11.79% | -5.86% | -5.73% | -5.07% |
| 2016 | 142,970 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -5.86% | -5.86% | -5.86% | -4.36% | -3.18% | -3.13% |
| | | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | -5.86% | -5.86% | -5.86% | -4.36% | -3.18% |

NA - Not applicable

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 Transmission Structures & Improvements
 Account 366
 1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1972 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1973 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1975 | 1,659 | 180 | 21 | 159 | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% |
| 1976 | - | - | - | 0 | NA | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% |
| 1977 | - | - | - | 0 | NA | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% | 9.58% |
| 1978 | 6,622 | - | - | 0 | 0.00% | 0.00% | 0.00% | 1.92% | 1.92% | 1.92% | 1.92% | 1.92% | 1.92% | 1.92% |
| 1979 | 19,847 | 2,375 | 10,784 | (8,409) | -42.37% | -31.77% | -31.77% | -31.77% | -29.33% | -29.33% | -29.33% | -29.33% | -29.33% | -29.33% |
| 1980 | 149 | - | 2,010 | (2,010) | -1348.99% | -52.11% | -39.14% | -39.14% | -39.14% | -36.28% | -36.28% | -36.28% | -36.28% | -36.28% |
| 1981 | - | - | - | 0 | NA | -1348.99% | -52.11% | -39.14% | -39.14% | -39.14% | -39.14% | -36.28% | -36.28% | -36.28% |
| 1982 | - | - | - | 0 | NA | NA | -1348.99% | -52.11% | -39.14% | -39.14% | -39.14% | -36.28% | -36.28% | -36.28% |
| 1983 | - | - | - | 0 | NA | NA | NA | -1348.99% | -52.11% | -39.14% | -39.14% | -39.14% | -36.28% | -36.28% |
| 1984 | - | - | - | 0 | NA | NA | NA | NA | -1348.99% | -52.11% | -39.14% | -39.14% | -36.28% | -36.28% |
| 1985 | - | - | 73 | (73) | NA | NA | NA | NA | NA | -1397.99% | -52.47% | -39.42% | -39.42% | -39.42% |
| 1986 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -1397.99% | -52.47% | -39.42% | -39.42% |
| 1987 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -1397.99% | -52.47% | -39.42% |
| 1988 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | -1397.99% | -52.47% |
| 1989 | 20,340 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -0.36% | -0.36% | -0.36% | -0.36% | -0.36% | -10.17% |
| 1990 | - | 13,140 | - | 13,140 | NA | 64.60% | 64.60% | 64.60% | 64.60% | 64.24% | 64.24% | 64.24% | 64.24% | 64.24% |
| 1991 | - | - | - | 0 | NA | NA | NA | NA | 64.60% | 64.24% | 64.24% | 64.24% | 64.24% | 64.24% |
| 1992 | 2,145 | - | 2,101 | (2,101) | -97.95% | -97.95% | 514.64% | 49.09% | 49.09% | 49.09% | 49.09% | 48.77% | 48.77% | 48.77% |
| 1993 | - | - | - | 0 | NA | -97.95% | -97.95% | 514.64% | 49.09% | 49.09% | 49.09% | 49.09% | 48.77% | 48.77% |
| 1994 | - | - | - | 0 | NA | NA | -97.95% | -97.95% | 514.64% | 49.09% | 49.09% | 49.09% | 48.77% | 48.77% |
| 1995 | 560 | - | - | 0 | 0.00% | 0.00% | 0.00% | -77.67% | 408.10% | 47.90% | 47.90% | 47.90% | 47.90% | 47.90% |
| 1996 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | -77.67% | 408.10% | 47.90% | 47.90% | 47.90% | 47.90% |
| 1997 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | -77.67% | 408.10% | 47.90% | 47.90% | 47.90% | 47.90% |
| 1998 | 5,402 | - | 264 | (264) | -4.89% | -4.89% | -4.43% | -4.43% | -29.17% | -29.17% | 132.91% | 37.88% | 37.88% | 37.88% |
| 1999 | - | - | - | 0 | NA | -4.89% | -4.89% | -4.43% | -4.43% | -4.43% | -29.17% | -29.17% | 132.91% | 37.88% |
| 2000 | - | (3,674) | - | (3,674) | NA | NA | -72.90% | -72.90% | -66.05% | -66.05% | -74.49% | -74.49% | -74.49% | -74.49% |
| 2001 | - | - | - | 0 | NA | NA | NA | -72.90% | -72.90% | -72.90% | -66.05% | -66.05% | -66.05% | -74.49% |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | -72.90% | -72.90% | -72.90% | -66.05% | -66.05% | -66.05% |
| 2003 | 1,757 | - | - | 0 | 0.00% | 0.00% | 0.00% | -209.16% | -209.16% | -55.01% | -55.01% | -55.01% | -51.02% | -51.02% |
| 2004 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | -209.16% | -209.16% | -55.01% | -55.01% | -55.01% | -51.02% |
| 2005 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | -209.16% | -209.16% | -55.01% | -55.01% | -55.01% | -51.02% |
| 2006 | 22,284 | - | 3,885 | (3,885) | -17.43% | -17.43% | -17.43% | -16.16% | -16.16% | -16.16% | -31.44% | -31.44% | -26.57% | -26.57% |
| 2007 | 11,909 | - | - | 0 | 0.00% | -11.36% | -11.36% | -11.36% | -10.81% | -10.81% | -21.03% | -21.03% | -18.92% | -18.92% |
| 2008 | - | - | - | 0 | NA | 0.00% | -11.36% | -11.36% | -11.36% | -10.81% | -10.81% | -21.03% | -21.03% | -21.03% |
| 2009 | - | - | - | 0 | NA | NA | 0.00% | -11.36% | -11.36% | -11.36% | -10.81% | -10.81% | -10.81% | -21.03% |
| 2010 | - | - | - | 0 | NA | NA | 0.00% | -11.36% | -11.36% | -11.36% | -10.81% | -10.81% | -10.81% | -10.81% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | -11.36% | -11.36% | -10.81% | -10.81% | -10.81% |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | -11.36% | -11.36% | -10.81% | -10.81% | -10.81% |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | 0.00% | -11.36% | -11.36% | -11.36% |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | 0.00% | -11.36% | -11.36% |
| 2015 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 0.00% | -11.36% |
| 2016 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Gas Plant Transmission Mains Account 367 1950-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
| 1950 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1972 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1973 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1975 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1976 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1977 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1978 | 2,200 | - | 2,379 | (2,379) | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% | -108.14% |
| 1979 | 9,171 | 6,759 | - | 6,759 | 73.70% | 38.52% | 38.52% | 38.52% | 38.52% | 38.52% | 38.52% | 38.52% | 38.52% | 38.52% |
| 1980 | 19,112 | - | - | 0 | 0.00% | 23.90% | 14.37% | 14.37% | 14.37% | 14.37% | 14.37% | 14.37% | 14.37% | 14.37% |
| 1981 | 95,035 | 540,123 | - | 540,123 | 568.34% | 473.18% | 443.47% | 433.80% | 433.80% | 433.80% | 433.80% | 433.80% | 433.80% | 433.80% |
| 1982 | 1,774 | - | 3,875 | (3,875) | -218.43% | 553.92% | 462.60% | 424.09% | 424.71% | 424.71% | 424.71% | 424.71% | 424.71% | 424.71% |
| 1983 | - | 62,960 | - | 62,960 | NA | 3330.61% | 618.96% | 516.91% | 484.42% | 474.18% | 474.18% | 474.18% | 474.18% | 474.18% |
| 1984 | - | 232,019 | 3,852 | 228,167 | NA | NA | 16192.33% | 854.65% | 713.74% | 666.82% | 653.42% | 653.42% | 653.42% | 653.42% |
| 1985 | 44,484 | 149,522 | 8,449 | 141,073 | 317.13% | 830.05% | 971.59% | 925.95% | 685.42% | 603.75% | 575.09% | 566.34% | 566.34% | 566.34% |
| 1986 | - | 21,041 | 7,139 | 13,902 | NA | 348.38% | 861.30% | 1002.84% | 956.00% | 695.26% | 612.42% | 583.28% | 574.43% | 574.43% |
| 1987 | 2,488 | 309,491 | 1,243 | 308,248 | 12389.39% | 12948.15% | 986.17% | 1471.92% | 1605.96% | 1539.56% | 897.61% | 792.30% | 754.00% | 743.11% |
| 1988 | - | 570 | - | 570 | NA | 12412.30% | 12971.06% | 987.38% | 1473.13% | 1607.17% | 1540.73% | 898.01% | 792.65% | 754.33% |
| 1989 | - | - | - | 0 | NA | NA | 12412.30% | 987.38% | 1473.13% | 1607.17% | 1540.73% | 898.01% | 792.65% | 754.33% |
| 1990 | - | - | 3,799 | (3,799) | NA | NA | NA | 12291.06% | 987.38% | 1473.13% | 1607.17% | 1540.73% | 898.01% | 792.65% |
| 1991 | 182,624 | 192,281 | 40,932 | 151,349 | 82.87% | 80.79% | 80.79% | 81.11% | 246.54% | 254.05% | 266.27% | 365.65% | 393.07% | 388.38% |
| 1992 | 292,293 | - | - | 29,780 | -10.19% | 25.60% | 24.80% | 24.80% | 24.92% | 24.92% | 24.92% | 111.43% | 111.43% | 111.43% |
| 1993 | - | 155,991 | 204 | 155,787 | NA | 43.11% | 58.40% | 57.60% | 57.60% | 57.72% | 121.99% | 124.90% | 141.28% | 185.00% |
| 1994 | 425,292 | - | 36,927 | (36,927) | -8.68% | 27.95% | 26.29% | 26.29% | 26.29% | 26.29% | 26.35% | 60.42% | 61.96% | 73.95% |
| 1995 | - | (155,991) | 3,540 | (159,531) | NA | -46.19% | -9.56% | -9.82% | 8.99% | 8.56% | 8.56% | 8.63% | 44.29% | 44.29% |
| 1996 | - | 347,925 | 12,909 | 335,016 | NA | NA | 32.58% | 69.21% | 86.87% | 46.20% | 45.78% | 45.78% | 45.84% | 79.86% |
| 1997 | 20,566 | 83,015 | - | 83,015 | 403.65% | 2032.63% | 1256.93% | 49.70% | 84.64% | 47.09% | 54.19% | 53.77% | 53.77% | 53.84% |
| 1998 | - | - | - | 0 | NA | 403.65% | 2032.63% | 1256.93% | 49.70% | 84.64% | 47.09% | 54.19% | 53.77% | 53.77% |
| 1999 | - | - | - | 0 | NA | 403.65% | 2032.63% | 1256.93% | 49.70% | 84.64% | 47.09% | 54.19% | 53.77% | 53.77% |
| 2000 | 9,809 | (22,780) | (81,140) | 58,360 | 594.96% | 594.96% | 594.96% | 465.43% | 1568.37% | 1043.16% | 61.43% | 95.62% | 54.27% | 59.89% |
| 2001 | 24,255 | - | 15,956 | (15,956) | -65.78% | 124.48% | 124.48% | 124.48% | 229.58% | 842.82% | 550.80% | 55.00% | 87.47% | 50.50% |
| 2002 | - | - | - | 0 | NA | -65.78% | 124.48% | 124.48% | 229.58% | 842.82% | 550.80% | 55.00% | 87.47% | 50.50% |
| 2003 | 37,754 | - | - | 0 | 0.00% | 0.00% | -25.73% | 59.04% | 59.04% | 59.04% | 135.76% | 498.40% | 325.71% | 50.99% |
| 2004 | - | - | - | 0 | 0.00% | 0.00% | 0.00% | -25.73% | 59.04% | 59.04% | 135.76% | 498.40% | 325.71% | 50.99% |
| 2005 | 346,129 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -3.91% | 10.15% | 10.15% | 28.60% | 105.00% | 105.00% |
| 2006 | 30,760 | 13,106 | 22,402 | (9,296) | -30.22% | -2.47% | -2.47% | -2.24% | -2.24% | -7.38% | 7.38% | 7.38% | 7.38% | 24.75% |
| 2007 | 116,421 | 52,698 | 7,628 | 45,070 | 38.06% | 23.98% | 7.22% | 7.22% | 6.71% | 6.71% | 3.56% | 13.78% | 13.78% | 13.78% |
| 2008 | - | - | - | 0 | NA | 38.06% | 23.98% | 7.22% | 7.22% | 6.71% | 6.71% | 3.56% | 13.78% | 13.78% |
| 2009 | - | - | - | 0 | NA | 38.06% | 23.98% | 7.22% | 7.22% | 6.71% | 6.71% | 3.56% | 13.78% | 13.78% |
| 2010 | - | - | - | 0 | NA | 38.06% | 23.98% | 7.22% | 7.22% | 6.71% | 6.71% | 3.56% | 13.78% | 13.78% |
| 2011 | 670,110 | - | 228,915 | (228,915) | -34.16% | -34.16% | -34.16% | -34.16% | -23.31% | -23.57% | -16.57% | -16.05% | -16.05% | -16.05% |
| 2012 | 698 | - | - | 0 | 0.00% | -34.13% | -34.13% | -34.13% | -34.13% | -23.29% | -23.55% | -16.56% | -16.04% | -16.04% |
| 2013 | 1,612 | - | - | 0 | 0.00% | 0.00% | -34.04% | -34.04% | -34.04% | -23.51% | -23.51% | -16.54% | -16.54% | -16.54% |
| 2014 | 1,523,206 | - | 1,420,195 | (1,420,195) | -93.24% | -93.14% | -93.10% | -75.11% | -75.11% | -69.32% | -68.80% | -68.80% | -68.80% | -68.80% |
| 2015 | 1,276 | - | 56,357 | (56,357) | -4416.69% | -96.86% | -96.75% | -96.71% | -77.63% | -77.63% | -77.63% | -77.63% | -77.63% | -77.63% |
| 2016 | 816,534 | - | 55,751 | (55,751) | -6.83% | -13.71% | -13.71% | -65.45% | -65.39% | -58.45% | -58.45% | -58.45% | -58.45% | -58.45% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
Transmission Measure and Regulating Station Equipment
Account 369
1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1972 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1973 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1975 | 5,418 | 635 | 73 | 562 | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% | 10.37% |
| 1976 | - | - | 505 | (505) | NA | 1.05% | 1.05% | 1.05% | 1.05% | 1.05% | 1.05% | 1.05% | 1.05% | 1.05% |
| 1977 | 3,885 | - | - | 0 | 0.00% | -13.00% | 0.61% | 0.61% | 0.61% | 0.61% | 0.61% | 0.61% | 0.61% | 0.61% |
| 1978 | 33,212 | 674 | 352 | 322 | 0.97% | 0.97% | 0.87% | 0.89% | 0.89% | 0.89% | 0.89% | 0.89% | 0.89% | 0.89% |
| 1979 | 101,335 | 17,943 | 20,118 | (2,175) | -2.15% | -1.38% | -1.34% | -1.70% | -1.25% | -1.25% | -1.25% | -1.25% | -1.25% | -1.25% |
| 1980 | 111,297 | 2,427 | 1,062 | 1,365 | 1.23% | -0.38% | -0.20% | -0.20% | -0.40% | -0.17% | -0.17% | -0.17% | -0.17% | -0.17% |
| 1981 | 180,953 | 24,666 | 7,336 | 17,330 | 9.58% | 6.40% | 4.20% | 3.91% | 3.91% | 3.79% | 3.88% | 3.88% | 3.88% | 3.88% |
| 1982 | 31,495 | - | 1,486 | (1,486) | -4.72% | 7.46% | 5.32% | 3.54% | 3.35% | 3.32% | 3.21% | 3.30% | 3.30% | 3.30% |
| 1983 | 3,775 | (38) | 1,670 | (1,708) | -45.25% | -9.06% | 6.54% | 3.11% | 2.95% | 2.93% | 2.82% | 2.91% | 2.91% | 2.91% |
| 1984 | 52,154 | - | 1,533 | (1,533) | -2.94% | -5.79% | -5.41% | 4.70% | 3.68% | 2.45% | 2.36% | 2.34% | 2.24% | 2.33% |
| 1985 | - | - | 513 | (513) | NA | -3.92% | -6.71% | -5.99% | 4.50% | 3.54% | 2.35% | 2.25% | 2.24% | 2.14% |
| 1986 | - | - | - | 0 | NA | NA | -3.92% | -6.71% | -5.99% | 4.50% | 3.54% | 2.35% | 2.25% | 2.24% |
| 1987 | - | - | - | 0 | NA | NA | -3.92% | -6.71% | -5.99% | 4.50% | 3.54% | 2.35% | 2.25% | 2.24% |
| 1988 | 5,170 | - | - | 0 | 0.00% | 0.00% | 0.00% | -9.92% | -3.57% | -6.14% | -5.66% | 4.42% | 3.50% | 3.23% |
| 1989 | 107,274 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -0.46% | -1.24% | -2.23% | -2.62% | 3.17% | 2.73% |
| 1990 | 3,574 | 69,016 | - | 69,016 | 1931.06% | 62.26% | 59.49% | 59.49% | 59.49% | 59.05% | 39.82% | 37.95% | 31.35% | 21.10% |
| 1991 | 9,712 | - | 1,855 | (1,855) | -19.10% | 505.50% | 55.71% | 53.42% | 53.42% | 53.01% | 36.61% | 34.90% | 29.05% | 29.05% |
| 1992 | 9,661 | - | (580) | 580 | 6.00% | -6.58% | 295.21% | 52.02% | 50.03% | 50.03% | 50.03% | 49.65% | 35.03% | 33.45% |
| 1993 | 8,740 | - | - | 0 | 0.00% | 3.15% | -4.54% | 213.78% | 48.75% | 47.00% | 47.00% | 46.64% | 33.47% | 33.47% |
| 1994 | 421,740 | 3,512 | - | 3,512 | 0.83% | 0.82% | 0.93% | 0.50% | 15.71% | 12.71% | 12.59% | 12.59% | 12.59% | 12.50% |
| 1995 | 14,488 | - | 1,266 | (1,266) | -8.74% | 0.51% | 0.50% | 0.62% | 0.21% | 14.96% | 12.17% | 12.06% | 12.06% | 12.06% |
| 1996 | 1,829 | - | - | 0 | 0.00% | -7.76% | 0.51% | 0.50% | 0.62% | 0.21% | 14.90% | 12.13% | 12.02% | 12.02% |
| 1997 | 129,294 | 5,260 | - | 5,260 | 4.07% | 4.01% | 2.74% | 1.32% | 1.30% | 1.38% | 1.05% | 1.256% | 10.65% | 10.58% |
| 1998 | 159,608 | - | 5,403 | (5,403) | -3.39% | -0.05% | -0.05% | -0.46% | 0.29% | 0.29% | 0.36% | 0.11% | 9.21% | 8.07% |
| 1999 | 13,276 | - | 3,147 | (3,147) | -23.70% | -4.95% | -1.09% | -1.08% | -1.43% | -0.14% | -0.14% | -0.06% | -0.30% | 8.64% |
| 2000 | 10,740 | (17,609) | 34,025 | (51,634) | -480.76% | -228.10% | -32.78% | -17.45% | -17.55% | -17.07% | -7.01% | -6.93% | -6.77% | -6.93% |
| 2001 | - | - | - | 0 | NA | -480.76% | -228.10% | -32.78% | -17.55% | -17.45% | -17.07% | -7.01% | -6.93% | -6.77% |
| 2002 | - | - | - | 0 | NA | NA | -480.76% | -228.10% | -32.78% | -17.55% | -17.45% | -17.07% | -7.01% | -6.93% |
| 2003 | 2,275 | - | - | 0 | 0.00% | 0.00% | 0.00% | -396.72% | -208.96% | -32.37% | -17.43% | -17.32% | -16.95% | -6.99% |
| 2004 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | -396.72% | -208.96% | -32.37% | -17.43% | -17.32% | -16.95% |
| 2005 | 1,361 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -359.16% | -198.11% | -32.14% | -17.35% | -17.25% | -16.95% |
| 2006 | 130,031 | - | 71,892 | (71,892) | -55.29% | -54.72% | -54.72% | -53.78% | -53.78% | -53.78% | -85.54% | -80.33% | -41.63% | -28.40% |
| 2007 | 23,421 | - | 34,658 | (34,658) | -147.98% | -69.44% | -68.82% | -68.82% | -67.83% | -67.83% | -67.83% | -94.25% | -89.08% | -48.94% |
| 2008 | - | - | - | 0 | NA | -147.98% | -69.44% | -68.82% | -68.82% | -67.83% | -67.83% | -94.25% | -89.08% | -48.94% |
| 2009 | 131,357 | - | 3,056 | (3,056) | -2.33% | -2.33% | -24.37% | -38.48% | -38.30% | -38.30% | -38.00% | -38.00% | -38.00% | -53.89% |
| 2010 | 12,800 | - | - | 0 | 0.00% | -2.12% | -2.12% | -36.83% | -36.66% | -36.66% | -36.38% | -36.38% | -36.38% | -34.90% |
| 2011 | 56,895 | - | 49,228 | (49,228) | -86.52% | -70.63% | -26.01% | -26.01% | -38.73% | -44.80% | -44.63% | -44.63% | -44.35% | -44.35% |
| 2012 | 96,990 | - | - | 0 | 0.00% | -31.99% | -29.53% | -17.54% | -17.54% | -27.05% | -35.18% | -35.07% | -35.07% | -35.07% |
| 2013 | 28,111 | - | 155,827 | (155,827) | -554.33% | -124.56% | -112.67% | -105.27% | -63.81% | -63.81% | -69.45% | -65.61% | -65.42% | -65.42% |
| 2014 | 79,135 | - | 39,033 | (39,033) | -49.32% | -181.63% | -95.41% | -95.41% | -99.11% | -60.98% | -60.98% | -63.30% | -63.30% | -63.15% |
| 2015 | 8,377 | - | - | 0 | 0.00% | -44.60% | -168.53% | -91.65% | -90.57% | -86.46% | -59.74% | -59.74% | -64.47% | -62.37% |
| 2016 | 47,153 | - | - | 0 | 0.00% | 0.00% | -28.99% | -119.71% | -75.01% | -77.08% | -74.09% | -53.63% | -53.63% | -58.19% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 Distribution Structures & Improvements
 Account 375
 1950-2016

| Transaction Year | Transactional History Retirements | Removal Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | 100 | 2,048 | (1,948) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | 100 | (100) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | 21 | (21) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | 1 | 2 | (1) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | 184 | 683 | (499) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | 43 | (43) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | 325 | 860 | (535) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | 74 | 151 | (77) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | 250 | 147 | 103 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | 10 | 115 | (105) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | - | 10 | (10) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | - | 315 | (315) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | - | 5 | (5) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | - | - | 165 | (165) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1972 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1973 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1975 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1976 | - | 250 | - | 250 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1977 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1978 | - | 400 | - | 400 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1979 | - | 3,947 | 2,686 | 1,261 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1980 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1981 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1982 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1983 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1984 | 918 | - | - | 919 | (919) | -100.11% | -100.11% | -100.11% | -100.11% | 37.25% | 80.83% | 80.83% | 108.06% | 108.06% |
| 1985 | 106 | 436 | - | 436 | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | 139.45% |
| 1986 | - | - | - | 0 | NA | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | 115.04% |
| 1987 | - | - | - | 0 | NA | NA | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | 115.04% |
| 1988 | - | - | - | 0 | NA | NA | NA | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% | 75.98% |
| 1989 | - | - | - | 0 | NA | NA | NA | NA | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% | -47.17% |
| 1990 | - | - | - | 0 | NA | NA | NA | NA | NA | 411.32% | -47.17% | -47.17% | -47.17% | -47.17% |
| 1991 | 435 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 80.59% | -33.10% | -33.10% | -33.10% |
| 1992 | 8,491 | - | 117 | (117) | -1.38% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -6.03% |
| 1993 | - | - | - | 0 | NA | -1.38% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -1.31% | -6.03% |
| 1994 | 3,680 | - | 365 | (365) | -9.92% | -3.96% | -3.96% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% |
| 1995 | - | - | - | 0 | NA | -9.92% | -3.96% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% | -3.82% |
| 1996 | 411 | - | - | 0 | 0.00% | 0.00% | -8.92% | -8.92% | -3.85% | -3.70% | -3.70% | -3.70% | -3.70% | -3.70% |
| 1997 | - | - | - | 0 | NA | 0.00% | 0.00% | -8.92% | -8.92% | -3.83% | -3.70% | -3.70% | -3.70% | -3.70% |
| 1998 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | -8.92% | -8.92% | -3.83% | -3.70% | -3.70% | -3.70% |
| 1999 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | -8.92% | -8.92% | -3.83% | -3.70% | -3.70% | -3.70% |
| 2000 | 1,187 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -6.92% | -6.92% | -3.50% | -3.39% |
| 2001 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -6.92% | -6.92% | -3.50% |
| 2002 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -6.92% | -6.92% |
| 2003 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -6.92% |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2006 | 4,392 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2007 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 4,534 | - | 2,878 | (2,878) | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -32.24% | -32.24% | -32.24% | -32.24% |
| 2013 | - | - | - | 0 | NA | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -32.24% | -32.24% | -32.24% | -32.24% |
| 2014 | - | - | - | 0 | NA | NA | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% |
| 2015 | - | - | - | 0 | NA | NA | NA | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -32.24% |
| 2016 | - | - | - | 0 | NA | NA | NA | NA | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% | -63.47% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Distribution Mains - Metallic Account 376 1950-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
| 1950 | 6,143 | 752 | 2,320 | (1,568) | -25.52% | | | | | | | | | |
| 1951 | 3,621 | 372 | 1,165 | (793) | -21.90% | -24.18% | | | | | | | | |
| 1952 | 10,066 | 1,230 | 3,142 | (1,912) | -18.99% | -19.76% | -21.55% | | | | | | | |
| 1953 | 18,739 | 501 | 2,747 | (2,246) | -11.99% | -14.43% | -15.27% | -16.90% | | | | | | |
| 1954 | 13,390 | 247 | 2,407 | (2,160) | -16.13% | -13.71% | -14.97% | -15.52% | -16.70% | | | | | |
| 1955 | 25,668 | 680 | 2,375 | (1,695) | -6.60% | -9.87% | -10.56% | -11.81% | -12.32% | -13.36% | | | | |
| 1956 | 50,983 | 1,768 | 6,963 | (5,195) | -10.19% | -8.99% | -10.05% | -10.38% | -11.11% | -11.43% | -12.11% | | | |
| 1957 | 53,651 | 3,866 | 8,554 | (4,668) | -8.70% | -9.43% | -8.87% | -9.55% | -9.83% | -10.36% | -10.60% | -11.10% | | |
| 1958 | 94,547 | 6,326 | 12,086 | (5,760) | -6.09% | -7.04% | -7.84% | -7.70% | -8.45% | -8.85% | -9.03% | -9.39% | | |
| 1959 | 119,005 | 9,154 | 13,232 | (4,078) | -3.43% | -4.61% | -5.43% | -6.19% | -6.22% | -6.59% | -6.86% | -7.18% | -7.32% | -7.60% |
| 1960 | 146,641 | 25,310 | 22,017 | 3,293 | 2.26% | -1.30% | -1.82% | -2.71% | -3.53% | -3.69% | -4.02% | -4.31% | -4.58% | -4.70% |
| 1961 | 59,014 | 3,215 | 16,481 | (13,266) | -22.48% | -4.85% | -4.33% | -5.66% | -5.18% | -5.66% | -5.71% | -5.96% | -6.15% | -6.37% |
| 1962 | 105,314 | 1,012 | 34,265 | (33,253) | -31.58% | -28.31% | -13.90% | -11.00% | -10.12% | -9.99% | -10.00% | -9.87% | -9.99% | -10.05% |
| 1963 | 165,355 | 1,133 | 31,716 | (30,583) | -18.50% | -23.58% | -23.39% | -15.50% | -12.12% | -11.77% | -11.88% | -11.77% | -11.61% | -11.68% |
| 1964 | 199,865 | 2,248 | 36,039 | (33,791) | -16.91% | -17.63% | -20.75% | -20.94% | -15.91% | -14.04% | -13.20% | -12.94% | -12.80% | -12.65% |
| 1965 | 188,804 | 1,696 | 39,089 | (37,393) | -19.81% | -18.31% | -18.37% | -20.48% | -20.64% | -16.76% | -15.15% | -14.36% | -14.09% | -13.92% |
| 1966 | 307,979 | 2,759 | 39,904 | (37,145) | -12.06% | -15.00% | -15.55% | -16.12% | -17.80% | -18.07% | -15.53% | -14.41% | -13.85% | -13.65% |
| 1967 | 136,986 | 2,133 | 31,927 | (29,794) | -21.75% | -15.04% | -16.46% | -16.57% | -16.89% | -18.29% | -18.50% | -16.18% | -15.12% | -14.56% |
| 1968 | 140,499 | 2,963 | 33,968 | (31,005) | -22.07% | -21.91% | -17.48% | -17.36% | -17.36% | -17.36% | -18.71% | -18.89% | -16.75% | -15.74% |
| 1969 | 162,072 | 2,962 | 44,867 | (41,905) | -25.86% | -24.10% | -23.37% | -18.71% | -18.93% | -18.57% | -18.56% | -19.54% | -19.66% | -17.66% |
| 1970 | 127,243 | 59,620 | 34,220 | 25,400 | 19.96% | -5.70% | -11.05% | -13.64% | -13.08% | -14.28% | -14.69% | -15.13% | -16.26% | -16.49% |
| 1971 | 96,432 | 33,937 | 40,958 | (7,021) | -7.28% | 6.22% | -30.17% | -10.36% | -12.71% | -12.51% | -13.69% | -14.17% | -14.64% | -15.73% |
| 1972 | 165,664 | 110,552 | 168,888 | (44,811) | -26.94% | -44.81% | -36.44% | -23.87% | 9.29% | 2.94% | -4.09% | -6.33% | -8.77% | -9.71% |
| 1973 | 149,071 | 29,344 | 39,507 | (10,163) | -6.82% | -20.47% | 13.98% | 15.39% | 5.87% | -2.00% | -6.38% | -4.41% | -6.38% | -7.61% |
| 1974 | 124,281 | 156,025 | 32,548 | 123,477 | 99.35% | 41.45% | 42.73% | 33.74% | 31.10% | 19.93% | 13.83% | 9.41% | 4.73% | 1.83% |
| 1975 | 155,197 | 8,125 | 69,338 | (61,213) | -39.44% | 12.16% | 22.28% | 17.33% | 17.33% | 10.54% | 6.46% | 3.39% | 3.99% | 0.35% |
| 1976 | 204,890 | 106,656 | 126,346 | (19,690) | -9.61% | -22.47% | 8.79% | 5.12% | 13.40% | 11.18% | 12.27% | 7.06% | 3.98% | 1.57% |
| 1977 | 260,298 | 16,405 | 122,659 | (106,254) | -40.82% | -27.07% | -30.17% | -8.55% | -8.26% | 0.10% | -0.52% | -1.51% | -1.55% | -3.37% |
| 1978 | 324,781 | 72,133 | 233,654 | (163,521) | -49.32% | -46.44% | -36.93% | -21.07% | -36.93% | -11.58% | -11.30% | -11.30% | -10.39% | -10.39% |
| 1979 | 318,817 | 3,804 | 212,401 | (208,597) | -65.43% | -57.62% | -52.77% | -44.79% | -44.13% | -31.27% | -28.90% | -21.66% | -20.89% | -18.19% |
| 1980 | 387,831 | 79,920 | 458,132 | (378,212) | -97.52% | -83.04% | -66.22% | -58.47% | -58.47% | -45.75% | -42.73% | -34.73% | -34.48% | -31.21% |
| 1981 | 825,609 | 580 | 367,691 | (367,111) | -44.47% | -61.42% | -62.26% | -60.11% | -57.73% | -53.48% | -52.60% | -45.34% | -43.25% | -38.21% |
| 1982 | 605,121 | 7,109 | 329,477 | (322,368) | -53.27% | -48.19% | -58.71% | -59.71% | -58.43% | -56.74% | -53.44% | -52.74% | -46.84% | -45.06% |
| 1983 | 336,003 | 164,775 | 178,171 | (13,396) | -3.95% | -35.56% | -39.72% | -50.11% | -52.08% | -51.63% | -50.89% | -48.30% | -47.90% | -42.70% |
| 1984 | 258,818 | 2,846 | 141,735 | (138,889) | -53.66% | -25.47% | -39.46% | -41.50% | -50.49% | -52.23% | -51.98% | -51.11% | -48.70% | -48.31% |
| 1985 | 183,413 | 6,428 | 137,198 | (130,770) | -71.30% | -60.98% | -36.23% | -43.67% | -43.97% | -51.96% | -53.43% | -52.17% | -49.81% | -48.11% |
| 1986 | 163,111 | 526,716 | 230,624 | 296,092 | 181.53% | 47.71% | 4.37% | 1.38% | -19.96% | -28.48% | -38.17% | -40.99% | -41.84% | -41.77% |
| 1987 | 411,428 | (241,164) | 237,676 | (478,840) | -116.38% | -31.81% | -41.36% | -44.49% | -34.36% | -40.19% | -41.46% | -49.87% | -49.88% | -49.88% |
| 1988 | 356,277 | 58,599 | 180,326 | (121,727) | -34.17% | -78.23% | -32.71% | -39.06% | -41.81% | -34.32% | -39.27% | -40.63% | -46.88% | -48.42% |
| 1989 | 397,725 | 40,142 | 197,681 | (157,539) | -39.61% | -37.04% | -65.05% | -34.78% | -39.21% | -41.32% | -39.32% | -38.32% | -40.52% | -46.15% |
| 1990 | 605,322 | 42,383 | 293,405 | (251,022) | -41.47% | -40.73% | -39.01% | -56.99% | -36.87% | -41.36% | -41.36% | -38.69% | -40.66% | -40.66% |
| 1991 | 698,098 | 49,050 | 332,740 | (283,690) | -41.35% | -41.40% | -40.98% | -39.80% | -52.62% | -38.04% | -40.22% | -41.36% | -37.63% | -39.99% |
| 1992 | 1,286,023 | 4,254 | 522,481 | (518,227) | -40.30% | -40.66% | -39.99% | -40.69% | -39.99% | -48.39% | -38.79% | -40.24% | -41.04% | -38.36% |
| 1993 | 539,039 | (763) | 302,029 | (302,792) | -56.17% | -44.99% | -43.99% | -43.50% | -43.06% | -42.24% | -49.37% | -40.89% | -42.10% | -42.71% |
| 1994 | 637,351 | 1,785 | 276,351 | (274,566) | -43.08% | -49.08% | -44.49% | -43.81% | -43.06% | -43.06% | -42.36% | -48.55% | -41.17% | -42.22% |
| 1995 | 1,164,725 | (5,100) | 217,282 | (222,382) | -19.09% | -27.58% | -34.16% | -36.34% | -37.13% | -37.67% | -37.81% | -37.59% | -42.91% | -37.05% |
| 1996 | 316,021 | 3,653 | 187,948 | (184,295) | -58.32% | -27.46% | -32.16% | -37.03% | -38.10% | -38.58% | -38.91% | -38.96% | -38.68% | -43.67% |
| 1997 | 379,795 | 2,859 | 178,040 | (175,181) | -46.13% | -51.66% | -31.27% | -34.29% | -38.17% | -38.80% | -39.15% | -39.40% | -39.42% | -39.12% |
| 1998 | 1,161,767 | 96,612 | 311,185 | (214,573) | -18.47% | -25.28% | -30.90% | -26.35% | -29.26% | -32.72% | -34.50% | -35.26% | -35.81% | -36.02% |
| 1999 | 1,064,354 | 57,589 | 35,771 | 21,818 | 2.05% | -8.66% | -14.12% | -18.90% | -18.95% | -22.21% | -25.69% | -28.56% | -29.77% | -30.26% |
| 2000 | 944,891 | 158,394 | 94,517 | 63,877 | 6.76% | 4.27% | -4.06% | -8.56% | -12.63% | -14.13% | -17.38% | -20.75% | -24.10% | -25.55% |
| 2001 | 644,735 | (6) | 46,542 | (46,548) | -7.22% | 1.05% | 1.48% | -4.60% | -8.36% | -11.86% | -13.34% | -16.34% | -19.48% | -22.77% |
| 2002 | 423,962 | (2,932) | (189,519) | 186,587 | 44.01% | 13.10% | 10.13% | 7.33% | 0.26% | -3.55% | -7.06% | -9.36% | -12.55% | -15.78% |
| 2003 | 348,764 | - | 13,959 | (13,959) | -4.00% | 22.34% | 8.89% | 8.04% | 6.18% | 0.06% | -3.58% | -6.86% | -9.07% | -12.13% |
| 2004 | 444,145 | - | 82,638 | (82,638) | -18.61% | -12.18% | 7.40% | 3.82% | 3.82% | -1.70% | -4.82% | -7.77% | -9.68% | -11.61% |
| 2005 | 864,678 | - | 71,486 | (71,486) | -8.27% | -11.78% | 0.89% | -10.14% | -1.03% | -0.98% | 1.22% | -2.66% | -5.29% | -7.83% |
| 2006 | 567,306 | - | 148,722 | (148,722) | -26.22% | -15.38% | -16.14% | -14.24% | -4.92% | -5.37% | -2.66% | -1.72% | -4.73% | -7.03% |
| 2007 | 283,204 | - | 130,105 | (130,105) | -45.94% | -32.78% | -20.42% | -20.42% | -20.05% | -17.82% | -16.34% | -8.58% | -6.46% | -6.46% |
| 2008 | 382,030 | - | 90,419 | (90,419) | -23.67% | -33.15% | -29.96% | -21.02% | -20.59% | -18.59% | -10.58% | -10.04% | -8.80% | -5.22% |
| 2009 | 324,145 | - | 51,003 | (51,003) | -15.73% | -20.03% | -27.44% | -27.00% | -20.31% | -20.04% | -18.30% | -11.04% | -11.47% | -7.35% |
| 2010 | 986,972 | - | 140,357 | (140,357) | -14.22% | -14.60% | -16.64% | -20.84% | -22.04% | -18.55% | -18.55% | -17.34% | -11.72% | -11.17% |
| 2011 | 650,594 | - | 366,488 | (366,488) | -56.33% | -30.95% | -28.44% | -27.66% | -29.63% | -29.02% | -24.60% | -24.01% | -22.57% | -20.02% |
| 2012 | 734,484 | 75,511 | 126,580 | (51,069) | -6.95% | -30.15% | -23.52% | -22.58% | -22.72% | -24.68% | -24.90% | -21.90% | -21.62% | -20.52% |
| 2013 | 810,655 | 74,293 | 165,990 | (81,697) | -10.07% | -9.68% | -19.73% | -22.18% | -22.18% | -19.83% | -21.93% | -22.11% | -20.01% | -19.91% |
| 2014 | 656,011 | 248 | 479,239 | (478,991) | -73.02% | -36.43% | -27.02% | -33.48% | -28.65% | -27.67% | -27.34% | -28.14% | -25.48% | -25.48% |
| 2015 | 1,126,614 | - | 353,277 | (353,277) | -31.36% | -46.69% | -34.31% | -28.45% | -32.89% | -29.26% | -28.44% | -28.13% | -28.96% | -28.72% |
| 2016 | 167,127 | - | 808,052 | (808,052) | -483.50% | -89.77% | -84.13% | -60.55% | -49.60% | -50.63% | -43.76% | -42.13% | -40.94% | -41.17% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
Distribution Mains - Plastic
Account 376
1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | (4) | 218 | (222) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | 22,033 | 64 | 833 | (769) | -3.49% | -4.50% | -4.50% | -4.50% | -4.50% | -4.50% | -4.50% | -4.50% | -4.50% | -4.50% |
| 1971 | 14,194 | 1,905 | 1,559 | 346 | 2.44% | -1.17% | -1.76% | -1.76% | -1.76% | -1.76% | -1.76% | -1.76% | -1.76% | -1.76% |
| 1972 | 14,684 | (35) | 10,072 | (1,107) | -7.49% | -2.62% | -2.99% | -3.43% | -3.43% | -3.43% | -3.43% | -3.43% | -3.43% | -3.43% |
| 1973 | 24,279 | 15,117 | 7,687 | 17,430 | 30.60% | 16.15% | 12.50% | 7.83% | 7.53% | 7.53% | 7.53% | 7.53% | 7.53% | 7.53% |
| 1974 | 15,204 | 45,717 | 3,461 | 42,256 | 277.93% | 125.84% | 89.35% | 71.36% | 53.16% | 52.91% | 52.91% | 52.91% | 52.91% | 52.91% |
| 1975 | 20,556 | 5,660 | 10,552 | (4,892) | -23.80% | 104.49% | 74.61% | 58.31% | 38.92% | 38.72% | 38.72% | 38.72% | 38.72% | 38.72% |
| 1976 | 8,993 | 21,213 | 6,258 | 14,955 | 166.30% | 34.06% | 116.91% | 86.55% | 69.88% | 60.12% | 48.46% | 48.27% | 48.27% | 48.27% |
| 1977 | 23,480 | (21,232) | 11,067 | (32,299) | -137.56% | -53.41% | -41.93% | -29.34% | -29.67% | -24.53% | -21.95% | -17.89% | -17.89% | -17.89% |
| 1978 | 83,853 | 22,383 | 14,028 | 7,267 | 8.23% | -8.73% | -11.05% | -18.26% | -11.05% | 18.26% | 17.98% | 16.88% | 14.88% | 14.78% |
| 1979 | 50,967 | 6,921 | 21,584 | (14,663) | -28.77% | -5.47% | -25.45% | -14.95% | -15.94% | 6.41% | 9.03% | 8.00% | 7.69% | 6.80% |
| 1980 | 35,605 | 22,108 | 57,784 | (35,676) | -100.20% | -58.15% | -25.63% | -39.40% | -30.14% | -29.55% | -9.71% | -5.94% | -6.02% | -5.60% |
| 1981 | 101,087 | 72,317 | 26,159 | 46,158 | 45.66% | 7.67% | -2.23% | 1.22% | -9.94% | -4.68% | 6.92% | 8.51% | 7.88% | 7.88% |
| 1982 | 67,171 | 36,173 | 33,419 | 2,754 | 4.10% | 29.07% | 6.49% | 0.56% | 1.80% | -7.32% | -3.07% | 6.45% | 7.82% | 6.45% |
| 1983 | 73,148 | 85,054 | 30,023 | 55,031 | 75.23% | 41.18% | 43.06% | 24.64% | 16.34% | 14.94% | 6.65% | 9.91% | 6.41% | 17.00% |
| 1984 | 70,630 | 17,137 | 21,494 | (4,357) | -6.17% | 35.24% | 25.33% | 31.91% | 18.38% | 12.35% | 11.83% | 4.85% | 7.69% | 6.47% |
| 1985 | 82,520 | 106,421 | 16,770 | 89,651 | 108.64% | 55.69% | 62.01% | 48.75% | 47.96% | 35.70% | 28.87% | 26.05% | 19.48% | 21.71% |
| 1986 | 26,360 | 104,119 | 17,643 | 86,476 | 328.06% | 161.76% | 95.69% | 89.77% | 71.77% | 65.50% | 52.58% | 44.41% | 39.58% | 32.78% |
| 1987 | 176,931 | 305,993 | 25,515 | 280,478 | 158.52% | 180.51% | 159.76% | 126.88% | 118.08% | 102.67% | 93.03% | 82.17% | 73.91% | 67.08% |
| 1988 | 71,981 | 84,716 | 27,728 | 56,988 | 79.17% | 135.58% | 154.01% | 143.55% | 118.86% | 112.50% | 99.70% | 91.54% | 81.87% | 74.41% |
| 1989 | 87,195 | 50,357 | 17,237 | 33,120 | 37.98% | 56.61% | 110.26% | 126.10% | 122.86% | 105.19% | 101.46% | 91.49% | 85.37% | 77.04% |
| 1990 | 179,821 | 132,120 | 82,928 | 46,129 | 43.46% | 51.04% | 87.90% | 87.90% | 99.58% | 100.77% | 89.91% | 88.52% | 81.73% | 77.84% |
| 1991 | 199,509 | 102,292 | 40,741 | 61,551 | 30.85% | 38.09% | 38.07% | 43.56% | 71.99% | 81.09% | 83.85% | 76.75% | 76.63% | 71.93% |
| 1992 | 412,064 | 3,526 | 69,671 | (66,145) | -16.05% | -0.75% | 9.90% | 12.69% | 17.72% | 39.82% | 46.40% | 50.55% | 47.49% | 48.96% |
| 1993 | 212,635 | 18,927 | 51,695 | (32,768) | -15.41% | -15.83% | -4.53% | 4.54% | 7.21% | 11.66% | 31.05% | 36.78% | 40.87% | 38.69% |
| 1994 | 377,917 | 2,738 | 44,330 | (41,592) | -11.01% | -12.59% | -14.01% | 0.29% | 2.52% | 2.52% | 6.10% | 21.80% | 26.43% | 30.14% |
| 1995 | 679,959 | (31,276) | 71,879 | (103,155) | -15.17% | -13.68% | -13.97% | -14.46% | -9.68% | -4.81% | -3.07% | -0.41% | 11.32% | 14.76% |
| 1996 | 122,055 | 74,816 | 67,252 | 7,564 | 6.20% | -11.92% | -11.83% | -12.20% | -13.08% | -8.71% | -4.19% | -2.58% | -0.06% | 11.07% |
| 1997 | 410,820 | 50,651 | 60,089 | (9,438) | -2.30% | -0.35% | -8.66% | -9.95% | -11.08% | -7.62% | -3.89% | -2.53% | -0.40% | -0.40% |
| 1998 | 718,480 | 24,132 | 91,963 | (67,831) | -9.44% | -6.84% | -5.77% | -8.95% | -9.29% | -9.80% | -10.68% | -8.04% | -5.10% | -3.99% |
| 1999 | 1,047,583 | 12,955 | 75,413 | (62,458) | -5.96% | -7.38% | -6.42% | -5.75% | -7.90% | -8.25% | -6.88% | -9.44% | -7.52% | -5.31% |
| 2000 | 722,555 | 17,415 | 51,491 | (34,076) | -4.72% | -5.45% | -6.60% | -5.99% | -5.50% | -7.28% | -6.62% | -8.01% | -6.71% | -7.10% |
| 2001 | 574,391 | (8) | 30,747 | (30,753) | -5.35% | -5.00% | -5.43% | -6.37% | -5.89% | -5.48% | -7.02% | -7.34% | -7.70% | -8.35% |
| 2002 | 799,169 | (426) | 52,732 | (53,158) | -6.65% | -6.11% | -5.63% | -5.74% | -6.43% | -5.69% | -7.24% | -7.55% | -7.24% | -7.55% |
| 2003 | 691,219 | - | 123 | (123) | -0.02% | -3.57% | -4.07% | -4.24% | -4.71% | -5.46% | -5.19% | -4.92% | -6.13% | -6.43% |
| 2004 | 400,630 | - | 13,816 | (13,816) | -3.45% | -1.28% | -3.55% | -3.97% | -4.14% | -4.59% | -5.29% | -5.06% | -4.31% | -5.96% |
| 2005 | 874,539 | 83,379 | 74,903 | 8,476 | 0.97% | -0.42% | -0.28% | -2.12% | -2.68% | -3.04% | -3.64% | -4.35% | -4.22% | -4.02% |
| 2006 | 658,489 | - | 98,788 | (98,788) | -15.00% | -5.89% | -3.97% | -4.60% | -4.71% | -4.71% | -4.71% | -4.94% | -5.43% | -5.25% |
| 2007 | 1,668,721 | (8) | 152,404 | (152,404) | -9.13% | -10.75% | -7.58% | -7.12% | -5.98% | -6.08% | -6.01% | -5.88% | -6.19% | -6.19% |
| 2008 | 1,772,781 | - | 306,435 | (306,435) | -17.29% | -13.33% | -13.60% | -11.04% | -10.47% | -9.28% | -8.98% | -8.70% | -8.34% | -8.07% |
| 2009 | 1,073,526 | - | 243,617 | (243,617) | -22.69% | -19.33% | -15.56% | -15.49% | -13.11% | -12.51% | -11.30% | -10.83% | -10.46% | -10.01% |
| 2010 | 1,606,639 | - | 239,095 | (239,095) | -14.88% | -18.01% | -17.72% | -15.38% | -15.34% | -13.48% | -12.98% | -11.96% | -11.51% | -11.16% |
| 2011 | 624,914 | - | 338,991 | (338,991) | -54.25% | -25.91% | -24.86% | -22.22% | -18.98% | -17.72% | -16.56% | -15.95% | -14.78% | -14.14% |
| 2012 | 575,885 | 28,892 | 129,955 | (100,063) | -17.38% | -36.56% | -24.16% | -23.75% | -21.72% | -18.85% | -18.54% | -16.61% | -16.04% | -14.93% |
| 2013 | 498,094 | - | 207,708 | (194,735) | -39.11% | -27.45% | -37.31% | -26.41% | -25.50% | -23.13% | -20.14% | -19.71% | -17.81% | -17.22% |
| 2014 | 709,130 | 526 | 169,519 | (168,993) | -23.83% | -30.13% | -26.01% | -33.34% | -25.95% | -25.27% | -23.20% | -20.45% | -20.06% | -18.23% |
| 2015 | 939,214 | 7,063 | 182,689 | (175,626) | -18.70% | -20.91% | -25.13% | -23.49% | -29.23% | -24.58% | -24.24% | -22.66% | -20.28% | -19.93% |
| 2016 | 596,095 | - | 3,793,004 | (3,793,004) | -636.31% | -258.49% | -184.35% | -157.97% | -133.57% | -121.00% | -90.28% | -66.23% | -56.76% | -56.76% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
Distribution Measure & Regulating Station Equipment - General
Account 378
1950-2016

| Transaction Year | Transactional History Retirements | Removal Salvage | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|-----------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | 70 | 58 | 12 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | 211 | 43 | 168 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | 1,464 | 2,474 | (1,010) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | (235) | 1,000 | (1,235) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | 242 | 135 | 107 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | 690 | 97 | 593 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | 3,965 | 601 | 3,364 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | 5,073 | 2,388 | 2,685 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | 1,573 | 510 | 1,063 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | 2,483 | 2,045 | 438 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | 5,753 | 2,369 | 3,384 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | 5,412 | 1,827 | 3,585 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | 828 | 2,311 | (1,483) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | 4,398 | 2,126 | 2,272 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | 746 | 528 | 218 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | 831 | 2,442 | (1,611) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | 2,805 | 1,257 | 1,548 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | - | 962 | 494 | 468 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1968 | - | 2,020 | 5,436 | (3,416) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1969 | - | 3,286 | 1,476 | 1,810 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | - | 16,395 | 9,504 | 6,891 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | - | 7,019 | 2,502 | 4,517 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1972 | - | 4,668 | 3,624 | 1,042 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1973 | - | 3,442 | 2,002 | 1,440 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1974 | - | 2,989 | 1,725 | 1,264 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1975 | - | (188) | 8,082 | (8,270) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1976 | - | 4,636 | 16,426 | (11,790) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1977 | - | 2,572 | 89 | 2,483 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1978 | - | 3,146 | 19,089 | (15,943) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1979 | - | 9,160 | 7,835 | 1,325 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1980 | - | 1,196 | 10,892 | (9,696) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1981 | - | 592 | 11,794 | (11,202) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1982 | - | 12,783 | 9,841 | 2,942 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1983 | - | 44,873 | 11,598 | 33,275 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1984 | - | 14,488 | 8,070 | 6,418 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1985 | - | 107 | 327 | (220) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1986 | - | (18,487) | - | (18,487) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1987 | - | (9,061) | - | (9,061) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1988 | - | 39 | 14,752 | (14,713) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1989 | - | 730 | 5,490 | (4,760) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1990 | - | (115) | 11,898 | (12,013) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1991 | - | (33) | 10,486 | (10,519) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1992 | - | - | 18,741 | (18,741) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1993 | - | (1,260) | 16,928 | (18,188) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1994 | - | (626) | 23,307 | (23,933) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1995 | - | - | 24,383 | (24,383) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1996 | - | - | 32,297 | (32,297) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1997 | - | (33) | 60,207 | (60,240) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1998 | - | (18) | 64,663 | (64,681) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1999 | - | (333) | 43,594 | (43,927) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2000 | - | 152 | 45,895 | (45,743) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | 8,815 | - | 407 | (407) | -4.62% | -4.62% | -523.54% | -1021.86% | -1755.61% | -2438.98% | -3081.97% | -3353.47% | -3559.80% |
| 2003 | 9,566 | - | 460 | (460) | -4.80% | -4.72% | -4.72% | -253.58% | -492.57% | -844.47% | -1172.20% | -1347.92% | -1480.57% |
| 2004 | 474 | - | 48,720 | (48,720) | -10267.97% | -489.84% | -262.99% | -262.99% | -505.60% | -738.57% | -1081.61% | -1572.39% | -1701.71% |
| 2005 | 20,557 | - | 7,962 | (7,962) | -38.73% | -289.51% | -186.76% | -146.02% | -146.02% | -262.08% | -373.54% | -537.65% | -690.50% |
| 2006 | 49,209 | - | 23,213 | (23,213) | -47.17% | -44.69% | -113.75% | -100.69% | -91.13% | -142.75% | -192.32% | -265.30% | -333.28% |
| 2007 | 85,150 | - | 43,100 | (43,100) | -50.62% | -49.36% | -47.95% | -79.15% | -74.84% | -71.28% | -71.28% | -97.60% | -122.88% |
| 2008 | 1,306 | - | 0 | 0 | 0.00% | -49.85% | -48.88% | -47.55% | -78.49% | -74.25% | -70.75% | -70.75% | -96.88% |
| 2009 | 16,993 | - | 12,543 | (12,543) | -73.81% | -68.55% | -53.79% | -51.66% | -50.12% | -78.04% | -74.21% | -71.02% | -94.84% |
| 2010 | 2,203 | - | 0 | 0 | 0.00% | -65.34% | -61.18% | -52.67% | -50.92% | -49.49% | -77.06% | -73.33% | -70.21% |
| 2011 | 2,119 | - | 15,709 | (15,709) | -741.39% | -363.47% | -132.55% | -124.89% | -66.21% | -60.24% | -57.75% | -84.97% | -80.88% |
| 2012 | 93,682 | 128,388 | 138,538 | (10,150) | -10.63% | -26.99% | -26.39% | -33.39% | -33.02% | -40.46% | -41.78% | -41.55% | -59.41% |
| 2013 | 27,399 | - | 4,028 | (4,028) | -14.70% | -11.71% | -24.26% | -23.83% | -29.80% | -29.53% | -37.37% | -39.11% | -55.31% |
| 2014 | 1,228 | 113,620 | 116,144 | (2,525) | -205.66% | -22.89% | -13.66% | -26.05% | -25.60% | -31.02% | -38.27% | -39.76% | -39.76% |
| 2015 | 293,236 | - | 74,629 | (74,629) | -25.45% | -26.20% | -25.22% | -21.98% | -25.63% | -25.49% | -27.37% | -27.29% | -31.09% |
| 2016 | 60,115 | - | 3,919 | (3,919) | -6.52% | -22.23% | -22.86% | -22.28% | -20.03% | -23.22% | -23.12% | -24.85% | -28.56% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 Distribution Measure & Regulating Station Equipment - City Gate
 Account 379
 1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | 793 | - | - | 0 | 0.00% | | | | | | | | | |
| 1951 | 341 | - | - | 0 | 0.00% | 0.00% | | | | | | | | |
| 1952 | 21,476 | - | - | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 1953 | 5,715 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 1954 | 3,166 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 1955 | 860 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 1956 | 9,293 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 1957 | 40,475 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 1958 | 751 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 1959 | 19,837 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1960 | 46,004 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1961 | 15,591 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1962 | 22,040 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1963 | 61,100 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1964 | 8,807 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1965 | 16,512 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1966 | 15,499 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1967 | 9,737 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1968 | 32,546 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1969 | 17,565 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1970 | 18,101 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1971 | 10,939 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1972 | 19,911 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1973 | 23,660 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1974 | 6,786 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1975 | 21,180 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1976 | 34,435 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1977 | 3,530 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1978 | 98,545 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1979 | 84,055 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1980 | 28,236 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1981 | 107,307 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1982 | 111,108 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1983 | 58,306 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1984 | 110,686 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1985 | 5,649 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1986 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1987 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1988 | 160,011 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1989 | 76,757 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1990 | 53,406 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1991 | 86,250 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1992 | 171,373 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1993 | 245,739 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1994 | 287,322 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1995 | 131,413 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1996 | 288,836 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1997 | 136,515 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1998 | 194,779 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1999 | 260,094 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2000 | 52,736 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2001 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2002 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2003 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2005 | 12,025 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2006 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2007 | 3,000 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | - | 310 | (310) | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% | -2.06% | -2.06% | -2.06% | -2.06% |
| 2010 | - | - | - | 0 | NA | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% | -2.06% | -2.06% | -2.06% |
| 2011 | - | - | - | 0 | NA | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% | -2.06% | -2.06% | -2.06% |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% | -2.06% |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% | -2.06% |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -10.34% | -10.34% | -2.06% | -2.06% |
| 2015 | 6,424 | - | 73,058 | (73,058) | -1137.27% | -1137.27% | -1137.27% | -1137.27% | -1137.27% | -1137.27% | -1142.09% | -1142.09% | -778.55% | -778.55% |
| 2016 | 94,420 | - | 920 | (920) | -0.97% | -73.36% | -73.36% | -73.36% | -73.36% | -73.36% | -73.36% | -73.67% | -73.67% | -71.54% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
Distribution Services - Metallic
Account 380
1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | 6,197 | 3 | 5,236 | (5,233) | -84.44% | | | | | | | | | |
| 1951 | 5,205 | 127 | 4,856 | (4,729) | -90.85% | -87.37% | | | | | | | | |
| 1952 | 17,277 | 36 | 9,454 | (9,418) | -54.51% | -62.93% | -67.58% | | | | | | | |
| 1953 | 15,269 | 38 | 8,072 | (8,034) | -52.62% | -59.62% | -58.76% | -62.39% | | | | | | |
| 1954 | 21,309 | 140 | 13,024 | (12,884) | -60.46% | -57.19% | -56.33% | -59.37% | | | | | | |
| 1955 | 16,255 | 41 | 9,654 | (9,613) | -59.14% | -59.89% | -57.79% | -56.98% | -59.32% | -61.23% | | | | |
| 1956 | 45,687 | 363 | 10,010 | (9,647) | -21.12% | -31.09% | -38.61% | -40.78% | -42.83% | -44.90% | -46.82% | | | |
| 1957 | 31,602 | 82 | 12,500 | (12,418) | -39.29% | -28.55% | -33.86% | -38.80% | -40.42% | -42.07% | -43.74% | -45.32% | | |
| 1958 | 29,525 | (88) | 13,244 | (13,332) | -45.15% | -42.13% | -33.14% | -36.57% | -41.30% | -43.97% | -45.30% | | | |
| 1959 | 35,628 | 2,497 | 22,108 | (19,811) | -55.05% | -50.56% | -46.88% | -46.88% | -40.72% | -43.06% | -44.68% | -45.78% | -46.85% | |
| 1960 | 49,007 | 3,004 | 43,930 | (40,926) | -85.51% | -81.51% | -71.53% | -64.71% | -59.20% | -50.82% | -51.71% | -51.77% | -51.95% | -52.71% |
| 1961 | 24,930 | 518 | 37,704 | (37,186) | -149.16% | -105.65% | -89.19% | -79.85% | -72.34% | -61.52% | -61.28% | -60.79% | -60.41% | |
| 1962 | 40,373 | 3,098 | 49,880 | (46,782) | -115.87% | -128.58% | -109.26% | -96.38% | -87.95% | -80.67% | -70.07% | -69.42% | -68.77% | -67.97% |
| 1963 | 37,209 | 860 | 48,458 | (47,598) | -127.92% | -121.65% | -128.34% | -113.84% | -102.65% | -94.81% | -87.75% | -77.39% | -75.41% | |
| 1964 | 55,921 | 53 | 95,052 | (94,999) | -169.88% | -153.12% | -141.85% | -143.00% | -128.95% | -118.12% | -110.21% | -102.85% | -92.17% | -90.71% |
| 1965 | 57,529 | 80 | 68,093 | (68,013) | -118.22% | -143.69% | -139.79% | -139.79% | -134.74% | -126.62% | -118.14% | -111.61% | -105.29% | -95.85% |
| 1966 | 49,230 | 192 | 63,443 | (63,251) | -126.48% | -122.95% | -137.01% | -137.01% | -133.46% | -134.93% | -126.91% | -119.59% | -113.80% | -108.07% |
| 1967 | 53,495 | 6 | 68,249 | (68,243) | -127.57% | -128.01% | -124.49% | -136.23% | -135.01% | -132.38% | -133.70% | -127.01% | -120.65% | -115.50% |
| 1968 | 60,123 | 266 | 72,934 | (72,668) | -120.87% | -124.02% | -125.37% | -132.50% | -132.89% | -130.43% | -130.43% | -131.66% | -126.14% | -120.68% |
| 1969 | 56,841 | 4 | 88,300 | (88,296) | -155.34% | -137.62% | -134.46% | -133.12% | -130.03% | -136.72% | -135.84% | -133.87% | -134.75% | -129.57% |
| 1970 | 46,719 | 7,168 | 79,589 | (72,421) | -148.65% | -152.25% | -140.86% | -137.62% | -135.94% | -132.81% | -137.33% | -135.44% | -130.15% | -126.15% |
| 1971 | 65,848 | 9,095 | 115,641 | (109,546) | -166.36% | -158.83% | -157.67% | -148.11% | -144.26% | -141.93% | -138.45% | -142.38% | -141.27% | -139.32% |
| 1972 | 107,529 | 10,290 | 107,579 | (107,579) | -94.34% | -122.41% | -138.88% | -133.88% | -131.00% | -130.91% | -130.91% | -132.81% | -136.14% | -137.29% |
| 1973 | 71,461 | 13,397 | 166,605 | (153,208) | -214.39% | -143.48% | -149.75% | -149.56% | -150.51% | -146.12% | -143.96% | -142.47% | -140.00% | -142.69% |
| 1974 | 108,303 | 94,646 | 174,606 | (79,960) | -73.83% | -129.71% | -116.82% | -126.17% | -128.93% | -132.23% | -130.90% | -130.59% | -130.42% | -129.38% |
| 1975 | 93,629 | 5,341 | 171,786 | (166,445) | -177.77% | -122.02% | -146.17% | -131.97% | -137.09% | -138.24% | -140.01% | -138.12% | -137.27% | -136.66% |
| 1976 | 135,413 | 8,655 | 210,172 | (201,517) | -148.82% | -160.65% | -132.78% | -147.05% | -136.43% | -139.84% | -140.52% | -141.76% | -140.07% | -139.23% |
| 1977 | 117,142 | 821 | 126,658 | (126,658) | -107.42% | -129.62% | -142.64% | -126.24% | -138.22% | -141.03% | -134.38% | -135.31% | -136.73% | -135.62% |
| 1978 | 159,241 | 9,092 | 219,945 | (210,853) | -140.25% | -145.81% | -133.58% | -133.58% | -131.72% | -138.67% | -141.32% | -138.42% | -136.14% | -137.29% |
| 1979 | 152,141 | 8,712 | 226,018 | (217,306) | -142.83% | -141.55% | -132.02% | -136.12% | -142.13% | -132.36% | -139.44% | -134.44% | -136.55% | -137.11% |
| 1980 | 277,354 | 9,085 | 311,143 | (302,058) | -108.91% | -120.92% | -125.94% | -122.82% | -127.05% | -131.78% | -126.07% | -128.58% | -130.54% | -127.77% |
| 1981 | 384,302 | 9,613 | 411,144 | (401,531) | -104.48% | -106.34% | -113.16% | -117.38% | -116.31% | -119.92% | -124.06% | -120.22% | -124.74% | -122.04% |
| 1982 | 314,996 | (78) | 308,064 | (308,162) | -97.83% | -101.49% | -103.59% | -108.88% | -112.57% | -112.14% | -115.38% | -118.97% | -116.15% | -120.04% |
| 1983 | 170,800 | 228 | 128,131 | (127,903) | -74.88% | -89.76% | -96.26% | -99.32% | -104.41% | -108.13% | -108.08% | -111.32% | -114.78% | -112.45% |
| 1984 | 154,357 | 1,135 | 136,495 | (136,380) | -87.69% | -80.86% | -89.26% | -94.37% | -97.94% | -102.64% | -108.16% | -108.25% | -109.95% | -112.64% |
| 1985 | 321,721 | 833 | 120,889 | (120,056) | -37.32% | -53.65% | -59.26% | -71.89% | -81.19% | -85.93% | -90.80% | -94.66% | -95.39% | -98.72% |
| 1986 | 213,032 | 5,331 | 164,712 | (159,381) | -74.82% | -52.26% | -60.19% | -63.11% | -72.42% | -80.32% | -84.64% | -89.09% | -92.69% | -93.45% |
| 1987 | 203,059 | 12 | 164,404 | (164,392) | -80.96% | -77.81% | -80.15% | -64.92% | -66.52% | -80.32% | -84.27% | -88.34% | -91.67% | |
| 1988 | 263,412 | 3,142 | 136,838 | (133,696) | -50.76% | -63.90% | -67.32% | -57.68% | -61.69% | -63.99% | -70.00% | -76.54% | -80.44% | -84.31% |
| 1989 | 457,349 | 2,146 | 233,570 | (231,424) | -50.60% | -50.66% | -57.32% | -60.60% | -55.46% | -58.55% | -60.11% | -65.77% | -71.76% | -75.50% |
| 1990 | 785,528 | 736 | 261,198 | (260,462) | -33.03% | -39.48% | -41.45% | -46.13% | -49.31% | -47.59% | -50.17% | -51.81% | -56.83% | -62.43% |
| 1991 | 769,364 | 3,176 | 356,511 | (353,335) | -45.93% | -39.40% | -41.94% | -42.96% | -46.07% | -48.34% | -47.17% | -49.14% | -50.45% | -54.54% |
| 1992 | 981,414 | 133 | 358,621 | (358,488) | -36.53% | -40.66% | -38.29% | -41.02% | -43.37% | -43.37% | -45.19% | -44.55% | -46.16% | -47.29% |
| 1993 | 384,230 | 5,641 | 221,147 | (215,506) | -56.09% | -42.03% | -43.43% | -40.63% | -41.98% | -42.61% | -44.64% | -46.22% | -45.57% | -47.00% |
| 1994 | 764,226 | 3,172 | 219,899 | (216,727) | -28.36% | -37.64% | -37.13% | -39.46% | -38.09% | -39.47% | -40.14% | -41.94% | -43.39% | -43.01% |
| 1995 | 993,608 | 2,207 | 261,141 | (256,934) | -26.06% | -27.06% | -32.27% | -32.27% | -36.04% | -35.53% | -37.55% | -39.12% | -40.43% | -40.43% |
| 1996 | 282,088 | 1,968 | 183,025 | (181,057) | -64.18% | -34.49% | -32.19% | -35.89% | -36.14% | -37.94% | -37.16% | -38.30% | -38.87% | -40.32% |
| 1997 | 78,224 | 838 | 155,036 | (154,198) | -197.12% | -93.05% | -43.89% | -38.28% | -41.02% | -39.75% | -40.87% | -39.64% | -40.55% | -41.02% |
| 1998 | 1,097,883 | 2,977 | 174,357 | (171,380) | -15.61% | -27.68% | -34.74% | -31.22% | -30.54% | -33.27% | -33.97% | -35.69% | -35.35% | -36.40% |
| 1999 | 862,107 | 5,293 | 106,935 | (101,642) | -11.79% | -13.93% | -20.96% | -26.22% | -26.58% | -29.12% | -30.46% | -32.37% | -32.45% | |
| 2000 | 758,051 | 10,864 | 127,418 | (116,554) | -15.38% | -13.47% | -14.33% | -19.45% | -23.55% | -24.16% | -24.82% | -27.12% | -28.61% | -30.52% |
| 2001 | 419,823 | (669) | 69,516 | (70,185) | -16.72% | -15.85% | -14.14% | -14.65% | -19.09% | -22.73% | -23.46% | -24.18% | -26.35% | -27.86% |
| 2002 | 119,335 | (433) | 73,631 | (74,064) | -62.06% | -26.75% | -20.10% | -16.79% | -20.63% | -20.63% | -24.02% | -24.46% | -25.02% | -27.09% |
| 2003 | 194,028 | - | 65,576 | (65,576) | -33.80% | -44.56% | -28.62% | -21.89% | -18.19% | -17.37% | -21.35% | -24.52% | -24.84% | -25.32% |
| 2004 | - | - | 103 | (103) | NA | -33.85% | -44.59% | -28.63% | -21.89% | -17.37% | -21.35% | -24.52% | -24.84% | -25.32% |
| 2005 | 537 | - | 6,722 | (6,722) | -1251.68% | -1270.82% | -37.21% | -46.66% | -29.53% | -22.34% | -18.47% | -17.56% | -21.54% | -24.70% |
| 2006 | 7,297 | - | 6,902 | (6,902) | -94.60% | -173.92% | -175.23% | -39.29% | -47.75% | -30.17% | -22.69% | -17.73% | -21.69% | -21.69% |
| 2007 | 747,051 | 301 | 320,072 | (318,771) | -42.80% | -43.31% | -44.17% | -44.17% | -42.06% | -44.29% | -44.29% | -42.35% | -42.18% | -42.18% |
| 2008 | 325,115 | - | 260,296 | (260,296) | -80.06% | -54.10% | -54.38% | -54.97% | -54.98% | -51.75% | -52.64% | -44.32% | -35.79% | -29.76% |
| 2009 | 152,343 | - | 205,883 | (205,883) | -135.14% | -97.64% | -64.18% | -64.37% | -64.89% | -60.66% | -60.77% | -51.36% | -41.34% | -41.34% |
| 2010 | 542,203 | - | 277,790 | (277,790) | -51.23% | -69.64% | -72.96% | -60.21% | -60.35% | -60.71% | -60.72% | -58.06% | -58.29% | -51.33% |
| 2011 | 502,649 | - | 21,671 | (21,671) | -4.31% | -28.66% | -42.21% | -50.29% | -47.83% | -47.98% | -48.27% | -47.13% | -47.13% | |
| 2012 | 456,043 | - | 151,664 | (151,664) | -33.26% | -18.08% | -30.06% | -39.74% | -46.37% | -45.39% | -45.52% | -45.76% | -45.76% | -44.97% |
| 2013 | 265,225 | - | 253,371 | (253,371) | -94.46% | -55.92% | -47.38% | -34.78% | -47.38% | -52.11% | -49.79% | -49.90% | -50.11% | -50.11% |
| 2014 | 106,689 | - | 65,872 | (65,872) | -61.74% | -85.15% | -56.67% | -36.94% | -41.07% | -48.14% | -52.55% | -50.20% | -50.30% | -50.51% |
| 2015 | 370,867 | - | 121,849 | (121,849) | -32.86% | -39.31% | -59.14% | -49.32% | -36.05% | -39.71% | -45.77% | -49.87% | -48.35% | -48.44% |
| 2016 | 362,402 | - | 38,040 | (38,040) | -10.50% | -21.80% | -26.88% | -43.24% | -40.33% | -31.57% | -35.85% | -41.14% | -45.24% | -44.77% |

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Distribution Services - Plastic
Account 380
1970-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1970 | 8,822 | 106 | 2,488 | (2,382) | -27.00% | | | | | | | | | |
| 1971 | 8,573 | (115) | 2,563 | (2,678) | -31.24% | -29.09% | | | | | | | | |
| 1972 | 17,781 | 1,590 | 5,244 | (3,654) | -20.55% | -24.03% | -24.77% | | | | | | | |
| 1973 | 40,040 | 454 | 14,296 | (13,842) | -34.57% | -30.26% | -30.39% | -29.99% | | | | | | |
| 1974 | 51,456 | 17,467 | 21,140 | (3,673) | -7.14% | -19.14% | -19.37% | -20.24% | -20.71% | | | | | |
| 1975 | 25,235 | 1,762 | 17,817 | (16,055) | -63.62% | -25.72% | -28.76% | -27.67% | -27.89% | -27.84% | | | | |
| 1976 | 42,762 | 3,480 | 17,478 | (13,998) | -32.73% | -44.20% | -28.23% | -29.82% | -28.89% | -29.00% | -28.91% | | | |
| 1977 | 132,564 | 1,733 | 22,929 | (21,196) | -15.99% | -20.07% | -25.55% | -21.79% | -23.54% | -23.37% | -23.58% | -23.68% | | |
| 1978 | 55,089 | 13,057 | 33,166 | (20,109) | -36.50% | -22.01% | -24.00% | -27.91% | -24.43% | -25.60% | -25.35% | -25.49% | -25.52% | |
| 1979 | 197,247 | 9,776 | 45,751 | (35,975) | -18.24% | -22.23% | -20.08% | -21.34% | -23.70% | -22.01% | -22.93% | -22.86% | -22.98% | -23.05% |
| 1980 | 132,930 | 13,543 | 69,596 | (56,053) | -42.17% | -27.87% | -29.11% | -25.75% | -26.28% | -27.89% | -26.21% | -26.71% | -26.55% | -26.61% |
| 1981 | 210,468 | 39,260 | 93,176 | (53,916) | -25.62% | -32.02% | -26.99% | -27.87% | -26.99% | -26.10% | -27.29% | -26.07% | -26.45% | -26.33% |
| 1982 | 254,407 | 8,266 | 63,104 | (54,838) | -21.56% | -23.39% | -27.57% | -25.25% | -25.98% | -24.63% | -24.97% | -25.90% | -25.02% | -25.36% |
| 1983 | 143,208 | 1,693 | 51,619 | (49,926) | -34.86% | -26.35% | -26.10% | -28.98% | -26.72% | -26.26% | -25.94% | -26.18% | -26.98% | -26.16% |
| 1984 | 133,589 | 2,604 | 60,332 | (57,728) | -43.21% | -38.89% | -30.59% | -29.18% | -31.15% | -28.78% | -29.15% | -27.77% | -27.93% | -28.61% |
| 1985 | 142,963 | 11,550 | 39,776 | (28,226) | -19.74% | -31.08% | -32.37% | -28.29% | -27.65% | -29.55% | -27.71% | -28.09% | -26.95% | -27.12% |
| 1986 | 95,770 | 22,810 | 62,022 | (30,192) | -40.92% | -28.24% | -33.61% | -33.96% | -29.86% | -28.95% | -30.53% | -28.68% | -28.99% | -27.84% |
| 1987 | 168,822 | 64,299 | 75,014 | (10,715) | -6.42% | -19.01% | -19.27% | -25.20% | -27.23% | -25.69% | -25.67% | -27.39% | -26.17% | -26.54% |
| 1988 | 137,917 | 46,472 | 72,044 | (25,572) | -18.54% | -11.91% | -18.85% | -19.08% | -23.84% | -25.77% | -24.77% | -24.91% | -26.53% | -25.51% |
| 1989 | 140,084 | 12,402 | 77,618 | (65,216) | -46.55% | -32.66% | -22.82% | -26.03% | -24.71% | -27.74% | -28.80% | -27.28% | -27.04% | -28.33% |
| 1990 | 349,291 | 4,096 | 110,758 | (106,662) | -30.54% | -35.12% | -31.48% | -26.21% | -27.80% | -26.68% | -28.58% | -29.26% | -28.01% | -27.73% |
| 1991 | 254,831 | 20,544 | 182,530 | (162,396) | -63.72% | -44.54% | -44.92% | -40.79% | -35.33% | -35.79% | -34.01% | -34.88% | -34.88% | -33.01% |
| 1992 | 451,363 | 6,116 | 208,587 | (202,471) | -44.86% | -51.67% | -44.67% | -44.89% | -42.17% | -38.19% | -38.36% | -37.28% | -37.28% | -37.11% |
| 1993 | 610,266 | 31,910 | 276,052 | (244,142) | -40.01% | -42.07% | -46.26% | -42.96% | -43.24% | -41.49% | -38.72% | -37.65% | -37.95% | -37.95% |
| 1994 | 705,761 | 21,928 | 314,158 | (292,230) | -41.41% | -40.76% | -41.80% | -44.57% | -42.50% | -42.73% | -41.47% | -39.39% | -39.44% | -38.52% |
| 1995 | 739,770 | 51,941 | 377,392 | (325,451) | -43.99% | -42.73% | -41.92% | -42.45% | -44.41% | -42.86% | -43.01% | -42.02% | -40.35% | -40.36% |
| 1996 | 255,077 | 78,334 | 376,198 | (297,864) | -116.77% | -62.65% | -53.84% | -50.18% | -49.31% | -50.53% | -48.46% | -48.38% | -47.25% | -45.46% |
| 1997 | 123,681 | 93,960 | 304,165 | (210,205) | -169.96% | -134.14% | -74.52% | -61.71% | -56.27% | -54.48% | -55.23% | -52.70% | -52.52% | -51.28% |
| 1998 | 1,213,825 | 72,118 | 327,413 | (255,295) | -21.03% | -34.80% | -47.93% | -46.68% | -45.46% | -44.55% | -44.58% | -45.70% | -44.53% | -44.63% |
| 1999 | 1,955,088 | 110,770 | 285,652 | (174,882) | -8.94% | -13.57% | -19.45% | -26.45% | -29.47% | -31.16% | -32.12% | -33.07% | -34.31% | -34.11% |
| 2000 | 870,778 | 96,624 | 271,789 | (175,165) | -20.11% | -12.39% | -14.98% | -19.59% | -25.20% | -27.89% | -29.52% | -30.51% | -31.44% | -32.51% |
| 2001 | 1,038,157 | 443 | 165,476 | (165,033) | -15.90% | -17.82% | -13.33% | -15.17% | -18.85% | -23.43% | -25.88% | -27.47% | -28.49% | -29.42% |
| 2002 | 210,674 | (1,780) | 158,565 | (160,345) | -76.11% | -26.05% | -23.61% | -16.58% | -17.60% | -21.08% | -25.39% | -27.54% | -28.91% | -29.79% |
| 2003 | 778,902 | - | 127,486 | (127,486) | -16.37% | -29.09% | -22.33% | -21.67% | -16.54% | -17.44% | -20.49% | -24.30% | -26.32% | -27.67% |
| 2004 | - | - | 2,855 | (2,855) | NA | -16.73% | -29.37% | -22.47% | -21.76% | -16.60% | -17.49% | -20.53% | -24.34% | -26.36% |
| 2005 | 88,767 | - | 18,592 | (18,592) | -20.95% | -24.16% | -17.16% | -28.68% | -22.41% | -21.74% | -16.68% | -17.54% | -20.54% | -24.30% |
| 2006 | - | - | 1,791 | (1,791) | NA | -22.96% | -26.18% | -17.37% | -28.85% | -22.49% | -21.80% | -16.71% | -17.57% | -20.57% |
| 2007 | 1,663,428 | 126,255 | 776,287 | (650,032) | -39.08% | -39.19% | -38.26% | -38.42% | -31.64% | -35.05% | -29.79% | -27.98% | -22.35% | -22.14% |
| 2008 | 757,228 | - | 371,772 | (371,772) | -49.10% | -42.21% | -42.29% | -41.53% | -41.64% | -35.66% | -38.09% | -33.01% | -30.94% | -25.10% |
| 2009 | 1,756,656 | - | 809,071 | (809,071) | -46.06% | -46.97% | -43.83% | -43.87% | -43.39% | -43.46% | -39.28% | -40.76% | -36.65% | -34.64% |
| 2010 | 7,637,094 | 2,209 | 812,372 | (810,163) | -10.61% | -17.24% | -19.61% | -22.35% | -22.37% | -22.36% | -22.38% | -22.01% | -22.90% | -22.38% |
| 2011 | 1,426,795 | - | 1,368,203 | (1,368,203) | -95.89% | -24.03% | -27.61% | -29.01% | -30.26% | -30.29% | -30.23% | -30.25% | -29.48% | -30.17% |
| 2012 | 7,931,702 | - | 521,755 | (521,755) | -6.58% | -20.20% | -15.89% | -18.71% | -19.89% | -18.71% | -21.41% | -21.41% | -21.42% | -21.24% |
| 2013 | 658,086 | - | 527,795 | (527,795) | -80.20% | -12.22% | -24.14% | -18.28% | -20.80% | -21.86% | -23.17% | -23.18% | -23.17% | -23.18% |
| 2014 | 283,813 | - | 695,038 | (695,038) | -244.89% | -129.83% | -19.66% | -30.22% | -21.87% | -24.03% | -26.02% | -26.03% | -26.03% | -26.01% |
| 2015 | 2,072,789 | - | 641,933 | (641,933) | -30.97% | -56.73% | -61.86% | -21.80% | -30.35% | -22.81% | -24.69% | -25.51% | -26.44% | -26.45% |
| 2016 | 13,090,836 | - | 405,413 | (405,413) | -3.10% | -6.91% | -11.28% | -14.10% | -11.62% | -16.34% | -15.02% | -16.58% | -17.27% | -18.24% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Gas Plant Distribution Meters Account 381 1950-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
| 1950 | 26,646 | 2,144 | 940 | 1,204 | 4.52% | | | | | | | | | |
| 1951 | 37,990 | 4,059 | 2,821 | 1,238 | 3.26% | | | | | | | | | |
| 1952 | 63,040 | 7,423 | 2,639 | 4,784 | 7.59% | | | | | | | | | |
| 1953 | 60,652 | 7,433 | 4,097 | 3,336 | 5.50% | | | | | | | | | |
| 1954 | 85,796 | 10,084 | 4,330 | 5,754 | 6.71% | | | | | | | | | |
| 1955 | 74,520 | 8,700 | 3,891 | 4,809 | 6.45% | | | | | | | | | |
| 1956 | 62,426 | 3,707 | 3,637 | 70 | 0.11% | | | | | | | | | |
| 1957 | 36,346 | 3,616 | 3,140 | 476 | 1.31% | | | | | | | | | |
| 1958 | 37,469 | 3,238 | 2,461 | 777 | 2.07% | | | | | | | | | |
| 1959 | 39,312 | 3,672 | 3,020 | 652 | 1.66% | | | | | | | | | |
| 1960 | 42,518 | 12,226 | 1,941 | 10,285 | 24.19% | | | | | | | | | |
| 1961 | 51,352 | 5,335 | 2,843 | 2,492 | 4.85% | | | | | | | | | |
| 1962 | 81,735 | 9,611 | 3,146 | 6,465 | 7.91% | | | | | | | | | |
| 1963 | 100,878 | 8,395 | 2,560 | 5,835 | 5.78% | | | | | | | | | |
| 1964 | 66,968 | 10,296 | 3,100 | 7,196 | 10.75% | | | | | | | | | |
| 1965 | 54,775 | 10,575 | 3,501 | 7,074 | 12.91% | | | | | | | | | |
| 1966 | 60,906 | 6,822 | 3,066 | 3,756 | 6.17% | | | | | | | | | |
| 1967 | 47,219 | 9,175 | 2,954 | 6,221 | 13.17% | | | | | | | | | |
| 1968 | 38,275 | 3,315 | 3,244 | 71 | 0.19% | | | | | | | | | |
| 1969 | 48,642 | 7,257 | 3,241 | 4,016 | 8.26% | | | | | | | | | |
| 1970 | 23,708 | 3,401 | | (18,828) | -79.42% | | | | | | | | | |
| 1971 | 68,330 | 16,142 | 70 | 16,072 | 23.52% | | | | | | | | | |
| 1972 | 105,572 | 64,409 | 939 | 63,470 | 60.12% | | | | | | | | | |
| 1973 | 113,124 | 9,753 | 534 | 9,219 | 8.15% | | | | | | | | | |
| 1974 | 88,323 | 19,378 | 989 | 18,389 | 20.82% | | | | | | | | | |
| 1975 | 114,262 | 8,783 | 747 | 8,036 | 7.03% | | | | | | | | | |
| 1976 | 114,583 | 10,423 | 1,062 | 9,361 | 8.17% | | | | | | | | | |
| 1977 | 169,671 | 666 | 1,055 | (389) | -0.23% | | | | | | | | | |
| 1978 | 177,839 | 17,998 | 181 | 17,817 | 10.02% | | | | | | | | | |
| 1979 | 174,838 | 41,213 | 4,965 | 36,248 | 20.73% | | | | | | | | | |
| 1980 | 266,193 | 60,676 | | 60,676 | 22.79% | | | | | | | | | |
| 1981 | 316,320 | 41,757 | | 41,757 | 13.20% | | | | | | | | | |
| 1982 | 345,536 | 40,902 | 693 | 40,209 | 11.64% | | | | | | | | | |
| 1983 | 264,175 | 4,128 | 14,608 | (10,480) | -3.97% | | | | | | | | | |
| 1984 | 338,570 | 1,831 | 3,181 | (1,350) | -0.40% | | | | | | | | | |
| 1985 | 272,779 | 49 | 2,332 | (2,283) | -0.84% | | | | | | | | | |
| 1986 | 286,699 | 1,386 | 740 | 646 | 0.23% | | | | | | | | | |
| 1987 | 358,589 | 6,879 | 220 | 6,659 | 1.86% | | | | | | | | | |
| 1988 | 383,673 | | 461 | (461) | -0.12% | | | | | | | | | |
| 1989 | 450,133 | 37 | 394 | (347) | -0.08% | | | | | | | | | |
| 1990 | 363,083 | 1,210 | 6,588 | (5,378) | -1.48% | | | | | | | | | |
| 1991 | 440,704 | 2 | 1,950 | (1,948) | -0.44% | | | | | | | | | |
| 1992 | 588,449 | 259 | 1,448 | (1,189) | -0.20% | | | | | | | | | |
| 1993 | 383,383 | 2,680 | 15,953 | (13,273) | -3.46% | | | | | | | | | |
| 1994 | 719,429 | 600 | 411 | 189 | 0.03% | | | | | | | | | |
| 1995 | 585,626 | 101 | 2,287 | (2,186) | -0.41% | | | | | | | | | |
| 1996 | 1,141,639 | 94,452 | | 94,452 | 8.27% | | | | | | | | | |
| 1997 | 675,696 | 60,670 | | 60,670 | 6.93% | | | | | | | | | |
| 1998 | 1,517,478 | 127,900 | | 127,900 | 8.43% | | | | | | | | | |
| 1999 | 1,844,190 | 53,435 | | 53,435 | 2.90% | | | | | | | | | |
| 2000 | 2,353,706 | 8,590 | | 8,590 | 0.36% | | | | | | | | | |
| 2001 | 104 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2002 | | | 0 | 0 | NA | | | | | | | | | |
| 2003 | | | 0 | 0 | NA | | | | | | | | | |
| 2004 | | | 0 | 0 | NA | | | | | | | | | |
| 2005 | 1,723,375 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2006 | 10,653,105 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2007 | 1,201,950 | | 260,415 | (260,415) | -21.67% | | | | | | | | | |
| 2008 | 1,602,503 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2009 | 1,182,564 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2010 | 1,622,257 | | 352,882 | (352,882) | -21.75% | | | | | | | | | |
| 2011 | 1,963,880 | | 0 | 0 | 0.00% | | | | | | | | | |
| 2012 | 2,160,792 | 879 | 245,637 | (244,758) | -11.33% | | | | | | | | | |
| 2013 | 2,472,223 | 17,003 | | 98,719 | -3.31% | | | | | | | | | |
| 2014 | 2,916,824 | 34,053 | 133,579 | (99,526) | -3.41% | | | | | | | | | |
| 2015 | 2,916,824 | 12,018 | | 12,018 | 0.48% | | | | | | | | | |
| 2016 | 2,520,819 | | | | | | | | | | | | | |

* Pro forma Ret

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Xcel Energy Gas Plant
 Distribution Meters - Telemetering
 Account 381
 2009-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2009 | 601,146 | - | - | 0 | 0.00% | | | | | | | | | |
| 2010 | | - | - | 0 | NA | 0.00% | | | | | | | | |
| 2011 | | - | - | 0 | NA | NA | 0.00% | | | | | | | |
| 2012 | | - | - | 0 | NA | NA | NA | 0.00% | | | | | | |
| 2013 | | - | - | 0 | NA | NA | NA | NA | 0.00% | | | | | |
| 2014 | | - | - | 0 | NA | NA | NA | NA | NA | 0.00% | | | | |
| 2015 | | - | - | 0 | NA | NA | NA | NA | NA | NA | 0.00% | | | |
| 2016 | | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | 0.00% | | |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
Distribution House Regulators
Account 383
1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|----------|--------------|-------------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | 1,070 | 145 | 53 | 92 | 8.60% | | | | | | | | | |
| 1951 | 301 | 98 | 60 | 38 | 12.62% | 9.48% | | | | | | | | |
| 1952 | 299 | 74 | 75 | (1) | -0.33% | 6.17% | 7.72% | | | | | | | |
| 1953 | 558 | 61 | 95 | (34) | -6.09% | -4.08% | 0.26% | 4.26% | | | | | | |
| 1954 | 2,121 | 182 | 180 | 2 | 0.09% | -1.19% | -1.11% | 0.15% | 2.23% | | | | | |
| 1955 | 6,116 | 1,638 | 169 | 1,469 | 24.02% | 17.86% | 16.34% | 15.79% | 15.69% | 14.96% | | | | |
| 1956 | 13,364 | 61 | 234 | (173) | -1.29% | 6.65% | 6.01% | 5.70% | 5.62% | 5.72% | 5.85% | | | |
| 1957 | 843 | 60 | 201 | (141) | -16.73% | -2.21% | 5.68% | 5.16% | 4.88% | 4.82% | 4.91% | 5.07% | | |
| 1958 | 2,713 | 80 | 544 | (464) | -17.10% | -17.01% | -4.60% | 3.00% | 2.75% | 2.56% | 2.53% | 2.64% | 2.88% | |
| 1959 | 2,036 | 516 | 393 | 123 | 6.04% | -7.18% | -8.62% | -3.46% | 3.25% | 3.00% | 2.82% | 2.78% | 2.89% | 3.10% |
| 1960 | 11,596 | 2,540 | 507 | 2,033 | 17.53% | 15.82% | 10.35% | 9.02% | 4.51% | 7.76% | 7.34% | 7.15% | 7.10% | 7.14% |
| 1961 | 9,620 | 1,085 | 1,341 | (256) | -2.66% | 8.38% | 8.17% | 5.53% | 4.83% | 2.79% | 5.60% | 5.36% | 5.23% | 5.19% |
| 1962 | 6,013 | 2,076 | 1,119 | 957 | 15.92% | 4.48% | 10.04% | 9.76% | 7.48% | 6.86% | 4.50% | 6.78% | 6.52% | 6.40% |
| 1963 | 9,762 | 4,111 | 1,100 | 3,011 | 30.84% | 25.15% | 14.62% | 15.53% | 15.04% | 10.24% | 11.90% | 12.36% | 10.27% | 12.29% |
| 1964 | 10,151 | 2,557 | 786 | 1,771 | 17.45% | 24.01% | 22.14% | 15.43% | 15.94% | 15.38% | 13.83% | 13.34% | 10.38% | 11.54% |
| 1965 | 2,188 | 716 | 643 | 73 | 3.34% | 14.94% | 21.97% | 20.67% | 14.72% | 15.38% | 15.01% | 13.40% | 12.94% | 10.15% |
| 1966 | 1,733 | 226 | 1,733 | (1,507) | -84.05% | -36.02% | -2.38% | 14.01% | 14.39% | 10.24% | 11.90% | 11.67% | 10.23% | 9.87% |
| 1967 | 4,161 | 866 | 1,905 | (1,039) | -24.97% | -42.76% | -30.37% | -3.84% | 8.23% | 9.59% | 6.89% | 9.12% | 9.01% | 7.83% |
| 1968 | 13,826 | 1,310 | 1,224 | 86 | 0.62% | -5.30% | -12.44% | -10.87% | -1.92% | 5.72% | 7.00% | 5.38% | 7.42% | 7.38% |
| 1969 | 16,243 | 4,883 | 1,243 | 3,640 | 22.41% | 12.39% | 7.85% | 3.28% | 3.28% | 6.25% | 10.38% | 10.90% | 9.13% | 10.27% |
| 1970 | 4,116 | 513 | 1,858 | (1,345) | -32.68% | 11.27% | 6.97% | 3.50% | -0.41% | -0.22% | 3.20% | 7.54% | 6.27% | 6.92% |
| 1971 | 4,454 | 943 | 2,728 | (1,785) | -40.08% | -36.52% | -19.74% | 2.06% | 1.54% | -1.04% | -4.37% | -0.19% | 4.36% | 5.31% |
| 1972 | 18,911 | 2,242 | 1,452 | 790 | 4.15% | -2.55% | -30.19% | -2.98% | 2.98% | 0.58% | -1.83% | -1.68% | 0.90% | 4.32% |
| 1973 | 812 | 635 | 2,638 | (2,003) | -246.67% | -6.19% | -12.46% | -15.42% | -1.58% | -1.06% | -2.65% | -4.65% | -1.72% | -1.72% |
| 1974 | 27 | 23 | 2,383 | (2,360) | -8740.74% | -520.02% | -18.20% | -22.25% | -23.77% | -6.89% | -5.11% | -6.43% | -8.60% | -8.21% |
| 1975 | 11,025 | 33 | 4,469 | (4,436) | -40.24% | -61.49% | -74.17% | -26.13% | -27.90% | -13.52% | -10.70% | -23.40% | -11.51% | -13.23% |
| 1976 | 4,020 | 1 | 1,563 | (1,562) | -38.86% | -39.87% | -55.45% | -65.23% | -27.60% | -29.02% | -29.37% | -15.23% | -12.24% | -12.93% |
| 1977 | 6,656 | 3,658 | 1,943 | 1,715 | 25.77% | 1.43% | -19.74% | -30.57% | -38.36% | -19.01% | -21.06% | -22.02% | -11.11% | -9.08% |
| 1978 | 224 | 106 | 2,460 | (2,354) | -1050.89% | -9.29% | -30.19% | -30.19% | -48.27% | -48.27% | -25.07% | -25.07% | -26.61% | -14.62% |
| 1979 | 626 | 284 | 1,941 | (1,657) | -264.70% | -471.88% | -30.59% | -33.47% | -36.78% | -47.19% | -54.11% | -28.13% | -29.27% | -29.55% |
| 1980 | 920 | 4,775 | 4,775 | (4,775) | -519.02% | -416.04% | -496.38% | -69.36% | -56.68% | -71.71% | -65.66% | -38.61% | -37.75% | -38.61% |
| 1981 | 10,487 | 1,138 | 11,295 | (10,157) | -96.85% | -130.90% | -137.86% | -154.55% | -91.09% | -81.93% | -68.40% | -79.29% | -50.01% | -50.01% |
| 1982 | - | 700 | 6,367 | (5,667) | NA | -150.89% | -184.58% | -184.96% | -200.78% | -121.05% | -106.65% | -85.08% | -91.96% | -95.57% |
| 1983 | 1 | 215 | 3,941 | (3,725) | -372500.00% | -939200.00% | -186.39% | -215.22% | -215.90% | -231.16% | -140.74% | -122.85% | -96.05% | -102.92% |
| 1984 | (1) | 31 | 5,927 | (5,896) | 589600.00% | NA | NA | -242.63% | -284.93% | -284.91% | -279.28% | -171.92% | -148.60% | -113.42% |
| 1985 | 1 | 126 | 3,272 | (3,147) | -314700.00% | NA | -1276800.00% | -1843500.00% | -272.62% | -292.49% | -291.04% | -304.93% | -188.55% | -162.31% |
| 1986 | - | 287 | 8,247 | (7,960) | NA | -1110700.00% | NA | -2072800.00% | -2639500.00% | -348.51% | -362.26% | -357.19% | -368.86% | -230.64% |
| 1987 | - | 725 | 5,478 | (4,753) | NA | NA | -1586000.00% | NA | -2548100.00% | -3114800.00% | -393.83% | -403.93% | -396.68% | -408.64% |
| 1988 | 1 | 269 | 9,801 | (9,532) | -953200.00% | -1428500.00% | -2224500.00% | -1269600.00% | -3128800.00% | -1750650.00% | -2034000.00% | -484.67% | -487.44% | -475.85% |
| 1989 | - | 166 | 166 | (166) | NA | -969800.00% | -1445100.00% | -224100.00% | -1277900.00% | -3145400.00% | -1758950.00% | -2042300.00% | -486.25% | -488.89% |
| 1990 | 1 | 442 | 14,537 | (14,095) | -1409500.00% | -1426100.00% | -1189650.00% | -1427300.00% | -1829300.00% | -1921766.67% | -2277450.00% | -1642466.67% | -1831366.67% | -62.57% |
| 1991 | - | 1 | 6,816 | (6,815) | NA | -2091000.00% | -2107600.00% | -1530400.00% | -1768050.00% | -2166050.00% | -1548933.33% | -2618200.00% | -1869633.33% | -2058533.33% |
| 1992 | - | 193 | 7,188 | (6,995) | NA | NA | -2790500.00% | -2807100.00% | -1880150.00% | -2117800.00% | -2515800.00% | -1782100.00% | -2967950.00% | -2102800.00% |
| 1993 | 185,044 | - | - | 0 | 0.00% | -3.78% | -7.46% | -15.08% | -15.17% | -20.32% | -22.89% | -27.19% | -28.89% | -32.08% |
| 1994 | 133,048 | - | - | 0 | 0.00% | 0.00% | -2.20% | -4.34% | -8.77% | -8.77% | -11.82% | -13.32% | -15.82% | -16.81% |
| 1995 | 124,714 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -1.59% | -3.12% | -6.34% | -8.49% | -9.57% | -11.36% |
| 1996 | 194,036 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -1.10% | -2.17% | -4.38% | -4.41% | -5.90% | -6.65% |
| 1997 | 243,744 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -0.79% | -1.57% | -3.17% | -4.27% | -5.19% |
| 1998 | 560,791 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -0.49% | -0.96% | -1.94% | -1.95% |
| 1999 | - | (12,615) | - | (12,615) | NA | -2.25% | -1.57% | -1.26% | -1.12% | -1.00% | -0.88% | -1.36% | -1.83% | -2.81% |
| 2000 | 788,842 | - | - | 0 | 0.00% | -1.60% | -0.93% | -0.79% | -0.71% | -0.66% | -0.62% | -0.57% | -0.89% | -1.18% |
| 2001 | - | - | - | 0 | NA | 0.00% | -1.60% | -0.93% | -0.79% | -0.66% | -0.62% | -0.57% | -0.89% | -1.18% |
| 2002 | - | - | - | 0 | NA | 0.00% | -1.60% | -0.93% | -0.79% | -0.71% | -0.66% | -0.62% | -0.57% | -0.89% |
| 2003 | 2,330 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -1.59% | -0.93% | -0.79% | -0.70% | -0.66% | -0.62% |
| 2004 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | -0.93% | -0.79% | -0.70% | -0.66% | -0.62% |
| 2005 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | -1.59% | -0.93% | -0.79% | -0.70% |
| 2006 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | -1.59% | -0.93% | -0.79% |
| 2007 | 603,813 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -0.90% |
| 2009 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | 69 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 12 | - | 2,849 | (2,849) | -23965.10% | -3511.34% | -3511.34% | -3511.34% | -3511.34% | -4.77% | -0.47% | -0.47% | -0.47% | -0.47% |
| 2012 | - | - | - | 0 | NA | -23965.10% | -3511.34% | -3511.34% | -3511.34% | -4.77% | -0.47% | -0.47% | -0.47% | -0.47% |
| 2013 | - | - | - | 0 | NA | NA | NA | -23965.10% | -3511.34% | -3511.34% | -4.77% | -0.47% | -0.47% | -0.47% |
| 2014 | - | 4,095 | NA | NA | NA | NA | NA | -58402.78% | -8557.10% | -8557.10% | -1.15% | -1.15% | -1.15% | -1.15% |
| 2015 | 29 | 594 | (594) | -2048.24% | -16157.96% | -16157.96% | -16157.96% | -16157.96% | -18427.01% | -6842.60% | -6842.60% | -6842.60% | -1.25% | -1.25% |
| 2016 | - | - | 0 | -2048.24% | -16157.96% | -16157.96% | -16157.96% | -16157.96% | -18427.01% | -6842.60% | -6842.60% | -6842.60% | -1.25% | -1.25% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 General Structures & Improvements
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 1950-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|----------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1950 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1951 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1952 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1953 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1954 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1955 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1956 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1957 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1958 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1959 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1960 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1961 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1962 | - | - | 18 | (18) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1963 | - | - | 57 | (57) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1964 | - | 710 | 64 | 646 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1965 | - | 10,414 | - | 10,414 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1966 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1967 | 4,173 | - | - | 0 | 0.00% | 0.00% | 249.56% | 265.04% | 263.67% | 263.24% | 263.24% | 263.24% | 263.24% | 263.24% |
| 1968 | - | - | - | 0 | 0.00% | 0.00% | 249.56% | 265.04% | 263.67% | 263.24% | 263.24% | 263.24% | 263.24% | 263.24% |
| 1969 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 249.56% | 265.04% | 263.67% | 263.24% | 263.24% | 263.24% |
| 1970 | 206 | 30 | 7 | 23 | 11.17% | 11.17% | 0.53% | 0.53% | 238.34% | 253.09% | 251.79% | 251.38% | 251.38% | NA |
| 1971 | - | - | - | 0 | NA | 11.17% | 11.17% | 0.53% | 0.53% | 238.34% | 253.09% | 251.79% | 251.38% | NA |
| 1972 | - | - | - | 0 | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | 253.09% | 251.79% | 251.38% | NA |
| 1973 | - | - | - | 0 | NA | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | 253.09% | 251.38% | NA |
| 1974 | - | - | - | 0 | NA | NA | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | 251.38% | NA |
| 1975 | - | - | - | 0 | NA | NA | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | 251.38% | NA |
| 1976 | - | - | - | 0 | NA | NA | NA | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | NA |
| 1977 | - | - | - | 0 | NA | NA | NA | NA | NA | 11.17% | 11.17% | 0.53% | 238.34% | NA |
| 1978 | 6,719 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 1979 | - | 17 | 86,083 | (86,066) | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1242.50% |
| 1980 | - | - | - | 0 | NA | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% |
| 1981 | - | - | - | 0 | NA | NA | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% |
| 1982 | - | - | - | 0 | NA | NA | NA | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% |
| 1983 | - | - | - | 0 | NA | NA | NA | NA | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% | -1280.93% |
| 1984 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | -1280.93% | -1280.93% | -1280.93% | -1280.93% |
| 1985 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | -1280.93% | -1280.93% | -1280.93% |
| 1986 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | -1280.93% | -1280.93% |
| 1987 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | -1280.93% |
| 1988 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1989 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1990 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1991 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1992 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1993 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1994 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1995 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1996 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1997 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1998 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1999 | 5,000 | (12,615) | - | (12,615) | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% |
| 2000 | - | - | - | 0 | NA | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% |
| 2001 | - | - | - | 0 | NA | NA | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% |
| 2002 | - | - | - | 0 | NA | NA | NA | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% | -252.30% |
| 2003 | 2,330 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% | -172.11% | -172.11% | -172.11% | -172.11% | -172.11% |
| 2004 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% | -172.11% | -172.11% | -172.11% | -172.11% |
| 2005 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% | -172.11% | -172.11% | -172.11% |
| 2006 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% | -172.11% | -172.11% |
| 2007 | 0 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% | -172.11% | -172.11% |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -172.11% |
| 2009 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 32,183 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 3,617 | - | 1,517 | (1,517) | -41.92% | -41.92% | -41.92% | -4.24% | -4.24% | -4.24% | -4.24% | -4.24% | -4.24% | -4.24% |
| 2016 | 345,469 | - | 47,119 | (47,119) | -13.64% | -13.93% | -13.93% | -13.93% | -12.76% | -12.76% | -12.76% | -12.76% | -12.76% | -12.76% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 General Office Furniture & Equipment
 Account 391
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | | | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | - | | | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | 314 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 1,354 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 107,074 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 2,662 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

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| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | 211,126 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 891,533 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 1,195,553 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 20,385 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 1,934 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 28,745 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | 14,837 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 22,729 | | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Xcel Energy Gas Plant
 General Transportation Equipment - Automobiles
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | | | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | - | | | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | | | |
| 2007 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 2008 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
General Transportation Equipment - Light Trucks
Account 392
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | - | | | 0 | NA | | | | | | | | | |
| 2004 | 95214.23 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 11236.34 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | (5,720) | 5,720 | NA | NA | NA | NA | NA | NA | 50.91% | 5.37% | 5.37% | 5.37% |
| 2012 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | 50.91% | 5.37% | 5.37% |
| 2013 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 50.91% | 5.37% |
| 2014 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 50.91% |
| 2015 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | 239,316 | 18,180 | - | 18,180 | 7.60% | 7.60% | 7.60% | 7.60% | 7.60% | 9.99% | 9.99% | 9.99% | 9.99% | 9.99% |

Xcel Energy Gas Plant
General Transportation Equipment - Trailers
Account 392
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | - | | | 0 | NA | | | | | | | | | |
| 2004 | 192,824 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 14,256 | | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Xcel Energy Gas Plant
General Transportation Equip - Heavy Trucks
Account 392
2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | | | | | | | | | |
| 2002 | - | | | 0 | NA | | | | | | | | | |
| 2003 | - | | | 0 | NA | | | | | | | | | |
| 2004 | 1,102,569 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | 44,866 | - | 44,866 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 General Stores Equipment
 Account 393
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2001 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2002 | - | - | - | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | | | |
| 2007 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Xcel Energy Gas Plant
 General Tools, Shop & Garage Equipment
 Account 394
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2001 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2002 | 59,775 | - | - | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 149,102 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 652,196 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 395,221 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 316,359 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 525,912 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 1,270,951 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 413,970 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 775,000 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 302,442 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 677,271 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 204,565 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Xcel Energy Gas Plant
 General Laboratory Equipment
 Account 395
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2001 | - | - | - | 0 | NA | NA | | | | | | | | |
| 2002 | - | - | - | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | 11,898 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 310 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 33,318 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 7,380 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 2,517 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 General Power Operated Equipment
 Account 396
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | - | | | 0 | NA | NA | NA | NA | NA | | | | | |
| 2005 | - | | | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | - | | | 0 | NA | NA | NA | NA | NA | NA | NA | | | |
| 2007 | 66,375 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 70,455 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 671,655 | 226,474 | - | 226,474 | 33.72% | 33.72% | 33.72% | 33.72% | 33.72% | 30.52% | 30.52% | 30.52% | 30.52% | 28.01% |

Xcel Energy Gas Plant
 General Communication Equipment
 Account 397
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | 8,730 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 1,846,637 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 87,979 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 125,517 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | NA | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 179,437 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 11,640 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 17,372 | | 21,350 | (21,350) | -183.42% | -183.42% | -11.17% | -11.17% | -6.74% | -6.74% | -5.28% | -0.95% | -0.94% | -0.94% |
| 2013 | 10,249 | | 38,436 | (38,436) | -221.25% | -206.07% | -206.07% | -28.68% | -28.68% | -17.90% | -17.90% | -14.17% | -2.64% | -2.63% |
| 2014 | 171,106 | | | 0 | 0.00% | 0.00% | -139.15% | -152.28% | -27.34% | -27.34% | -17.37% | -17.37% | -13.83% | -2.62% |
| 2015 | - | | | 0 | 0.00% | 0.00% | -19.34% | -28.42% | -28.42% | -15.34% | -15.34% | -11.60% | -11.60% | -9.91% |
| 2016 | - | | | 0 | NA | NA | 0.00% | 0.00% | -19.34% | -28.42% | -28.42% | -15.34% | -15.34% | -11.60% |

Xcel Energy Gas Plant
 General Communication Equipment - AES
 Account 397
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | - | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | - | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | 3,294 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 26,179 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 45,532 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 5,338 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 2,147 | | 71 | (71) | -3.30% | -3.30% | -0.95% | -0.95% | -0.13% | -0.09% | -0.09% | -0.09% | -0.09% | -0.09% |
| 2012 | - | | | 0 | NA | -3.30% | -3.30% | -0.95% | -0.95% | -0.13% | -0.09% | -0.09% | -0.09% | -0.09% |
| 2013 | - | | | 0 | NA | NA | -3.30% | -3.30% | -0.95% | -0.95% | -0.13% | -0.09% | -0.09% | -0.09% |
| 2014 | 2,365,462 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 1,331,967 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Gas Plant
 General Miscellaneous Equipment
 Account 398
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2-yr Net Salv. % | 3-yr Net Salv. % | 4-yr Net Salv. % | 5-yr Net Salv. % | 6-yr Net Salv. % | 7-yr Net Salv. % | 8-yr Net Salv. % | 9-yr Net Salv. % | 10-yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | 33,743 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | - | | | 0 | NA | 0.00% | | 0.00% | | | | | | |
| 2004 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 10,161 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 500 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| 2008 | - | | | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 5,493 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | | | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 20,200 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 32,504 | | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common Plant General Structures & Improvements Account 390 2000-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|-----------------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Removal Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | 11,128 | (11,128) | NA | | | | | | | | | |
| 2001 | 11,177 | | 2,928 | (2,928) | -26.20% | -125.76% | | | | | | | | |
| 2002 | 84,542 | | | 0 | 0.00% | -3.06% | -14.68% | | | | | | | |
| 2003 | | | | 0 | NA | 0.00% | -3.06% | -14.68% | | | | | | |
| 2004 | | | | 0 | NA | NA | 0.00% | -3.06% | -14.68% | | | | | |
| 2005 | 115,441 | | 30,562 | (30,562) | NA | -26.47% | -26.47% | -15.28% | -15.86% | -21.13% | | | | |
| 2006 | 333,652 | | 391,986 | (391,986) | NA | -94.09% | -94.09% | -94.09% | -79.18% | -78.10% | -80.14% | | | |
| 2007 | 2,085,723 | | 1,689,125 | (1,689,125) | -80.99% | -86.02% | -83.31% | -83.31% | -83.31% | -80.62% | -80.39% | | | |
| 2008 | 1,493,463 | | 1,988,153 | (1,988,153) | -133.12% | -102.74% | -104.00% | -101.78% | -101.78% | -101.78% | -99.68% | -80.81% | | |
| 2009 | 34,948 | | | 0 | 0.00% | -130.08% | -101.75% | -103.08% | -100.90% | -100.90% | -100.90% | -99.48% | -99.75% | |
| 2010 | | | | 0 | NA | 0.00% | -130.08% | -101.75% | -103.08% | -100.90% | -100.90% | -99.48% | -99.75% | -98.92% |
| 2011 | | (10,312) | 1,041,313 | (1,051,625) | NA | NA | -3009.11% | -198.88% | -130.84% | -129.72% | -126.78% | -100.90% | -98.84% | -98.65% |
| 2012 | 3,697,183 | 2,874 | 2,498,298 | (2,495,424) | NA | -95.94% | -95.94% | -95.04% | -105.92% | -98.81% | -99.63% | -98.54% | -98.54% | -124.20% |
| 2013 | 10,192,810 | | 724,240 | (724,240) | NA | -23.18% | -30.75% | -30.75% | -30.67% | -40.60% | -45.41% | -46.76% | -46.63% | -46.63% |
| 2014 | 2,569,934 | 1,006 | 610,379 | (609,373) | NA | -10.45% | -23.26% | -29.65% | -29.65% | -29.59% | -38.18% | -42.63% | -43.86% | -43.76% |
| 2015 | 1,033,009 | (1,667) | | (1,667) | NA | -16.96% | -9.68% | -21.90% | -27.91% | -27.91% | -27.85% | -36.12% | -40.55% | -41.75% |
| 2016 | 828,431 | 932 | 463,032 | (462,100) | NA | -24.91% | -24.22% | -12.29% | -23.43% | -29.17% | -29.17% | -29.11% | -36.94% | -41.13% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common Plant General Office Furniture & Equipment Account 391 2000-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | | 0 | NA | | | | | | | | | |
| 2001 | | | | 0 | NA | NA | | | | | | | | |
| 2002 | 11,807 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 784,169 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 685,962 | 7,700 | | 7,700 | 1.12% | 0.52% | 0.52% | 0.52% | 0.52% | | | | | |
| 2005 | | 12,781 | | 12,781 | NA | 2.99% | 1.39% | 1.38% | 1.38% | 1.38% | | | | |
| 2006 | | 2,150 | 1,797 | 353 | NA | NA | 3.04% | 1.42% | 1.41% | 1.41% | 1.41% | | | |
| 2007 | 1,086,869 | 180 | 10,001 | (9,821) | -0.90% | -0.87% | 0.30% | 0.62% | 0.43% | 0.43% | 0.43% | 0.43% | | |
| 2008 | 989,344 | (351,919) | | (351,919) | -35.57% | -17.42% | -17.41% | -16.79% | -12.34% | -9.61% | -9.58% | -9.58% | -9.58% | |
| 2009 | 59,885 | | 8,869 | (8,869) | -14.81% | -34.39% | -17.35% | -17.33% | -16.73% | -12.39% | -9.70% | -9.67% | -9.67% | -9.67% |
| 2010 | | | | 0 | NA | -14.81% | -34.39% | -17.35% | -17.33% | -16.73% | -12.39% | -9.70% | -9.67% | -9.67% |
| 2011 | 859,438 | | 48,000 | (48,000) | -5.59% | -5.59% | -6.19% | -21.42% | -13.97% | -13.96% | -13.54% | -10.80% | -8.91% | -8.89% |
| 2012 | 1,179,782 | | | 0 | NA | -2.35% | -2.35% | -2.71% | -13.24% | -10.03% | -10.02% | -9.71% | -8.18% | -7.05% |
| 2013 | 4,781,782 | | 17,008 | (17,008) | NA | -0.29% | -0.95% | -0.95% | -1.07% | -5.41% | -4.86% | -4.86% | -4.72% | -4.30% |
| 2014 | 5,902,551 | 3,247 | 6,100 | (2,853) | NA | -0.19% | -0.17% | -0.53% | -0.53% | -0.60% | -3.11% | -2.95% | -2.95% | -2.86% |
| 2015 | | 5,560 | | 5,560 | NA | 0.05% | -0.13% | -0.12% | -0.49% | -0.49% | -0.56% | -3.07% | -2.91% | -2.91% |
| 2016 | | | | 0 | NA | NA | 0.05% | -0.13% | -0.12% | -0.49% | -0.49% | -0.56% | -3.07% | -2.91% |

| Xcel Energy Common General Network Equipment Account 391 2000-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | | 0 | NA | | | | | | | | | |
| 2001 | | | | 0 | NA | NA | | | | | | | | |
| 2002 | 852,835 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 32,731,604 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 35,907,145 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 3,379,968 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 726,936 | | 335 | (335) | NA | -0.01% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 5,880,457 | | | 0 | 0.00% | -0.01% | 0.00% | 0.00% | 0.00% | 0.00% | | 0.00% | | |
| 2008 | 10,701,667 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | (787,840) | 327,097 | 478,143 | (151,046) | 19.17% | -1.52% | -0.96% | -0.92% | -0.76% | -0.27% | -0.17% | -0.17% | -0.17% | -0.17% |
| 2010 | | | | 0 | NA | 19.17% | -1.52% | -0.96% | -0.92% | -0.76% | -0.27% | -0.17% | -0.17% | -0.17% |
| 2011 | 19,747,779 | 33,319 | 17,090 | 16,229 | 0.08% | 0.08% | -0.71% | -0.45% | -0.38% | -0.37% | -0.34% | -0.18% | -0.12% | -0.12% |
| 2012 | 3,602,211 | 38,588 | 799 | 37,789 | NA | 0.23% | 0.23% | -0.43% | -0.29% | -0.25% | -0.24% | -0.23% | -0.12% | -0.09% |
| 2013 | 21,150,757 | 10,776 | 314 | 10,462 | NA | 0.19% | 0.14% | 0.14% | -0.20% | -0.16% | -0.14% | -0.14% | -0.13% | -0.09% |
| 2014 | 10,839,036 | 25,567 | (4,637) | 30,204 | NA | 0.13% | 0.22% | 0.17% | 0.17% | -0.10% | -0.09% | -0.08% | -0.08% | -0.08% |
| 2015 | 9,137,814 | 5,560 | | 5,560 | NA | 0.18% | 0.11% | 0.19% | 0.16% | 0.16% | -0.08% | -0.07% | -0.06% | -0.06% |
| 2016 | 9,493,912 | | | 0 | NA | 0.03% | 0.12% | 0.09% | 0.15% | 0.14% | 0.14% | -0.07% | -0.06% | -0.06% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common Plant General Transportation Equipment - Automobiles Account 392 2000-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | | 0 | NA | | | | | | | | | |
| 2001 | | | | 0 | NA | NA | | | | | | | | |
| 2002 | | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | | 75,586 | | 75,586 | NA | NA | NA | NA | NA | | | | | |
| 2005 | | | | 0 | NA | NA | NA | NA | NA | NA | | | | |
| 2006 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | | | |
| 2007 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 2008 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 2009 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | 165,915 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | | 52,553 | | 52,553 | NA | 31.67% | 31.67% | 31.67% | 31.67% | 31.67% | 31.67% | 31.67% | 31.67% | 31.67% |

| Xcel Energy Common Plant General Transportation Equipment - Light Trucks Account 392 2000-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | | 0 | NA | | | | | | | | | |
| 2001 | | | | 0 | NA | NA | | | | | | | | |
| 2002 | | | | 0 | NA | NA | NA | | | | | | | |
| 2003 | | | | 0 | NA | NA | NA | NA | | | | | | |
| 2004 | 108,012 | 2,441 | | 2,441 | 2.26% | 2.26% | 2.26% | 2.26% | 2.26% | | | | | |
| 2005 | | 43,830 | | 43,830 | NA | 42.84% | 42.84% | 42.84% | 42.84% | 42.84% | | | | |
| 2006 | | 5,087 | 91 | 4,996 | NA | NA | 47.46% | 47.46% | 47.46% | 47.46% | 47.46% | | | |
| 2007 | | 3,737 | | 3,737 | NA | NA | NA | 50.92% | 50.92% | 50.92% | | 50.92% | | |
| 2008 | | | 4,275 | (4,275) | NA | NA | NA | NA | 46.97% | 46.97% | 46.97% | 46.97% | 46.97% | |
| 2009 | | | | 0 | NA | NA | NA | NA | NA | 46.97% | 46.97% | 46.97% | 46.97% | 46.97% |
| 2010 | | | | 0 | NA | NA | NA | NA | NA | NA | 46.97% | 46.97% | 46.97% | 46.97% |
| 2011 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | 46.97% | 46.97% | 46.97% |
| 2012 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 46.97% | 46.97% |
| 2013 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 46.97% |
| 2014 | | | | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | 254,091 | 13,222 | (12,241) | 25,463 | NA | 10.02% | 10.02% | 10.02% | 10.02% | 10.02% | 10.02% | 8.34% | 9.81% | 11.78% |
| 2016 | 2,021,256 | 89,804 | (420) | 90,224 | NA | 5.08% | 5.08% | 5.08% | 5.08% | 5.08% | 5.08% | 5.08% | 4.90% | 5.06% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

Xcel Energy Common Plant
 General Transportation Equipment - Trailers
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2006 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2007 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2009 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | - | - | 632 | (632) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | 116,343 | - | - | 0 | NA | 0.00% | -0.54% | -0.54% | -0.54% | -0.54% | -0.54% | -0.54% | -0.54% | -0.54% |
| 2016 | 35,980 | 3,431 | - | 3,431 | NA | 2.25% | 2.25% | 1.84% | 1.84% | 1.84% | 1.84% | 1.84% | 1.84% | 1.84% |

Xcel Energy Common Plant
 General Transportation Equipment - Heavy Trucks
 Account 392
 2000-2016

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2004 | 35,125 | 50,391 | - | 50,391 | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2005 | - | - | - | 0 | NA | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2006 | - | - | - | 0 | NA | NA | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2007 | - | - | - | 0 | NA | NA | NA | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2009 | - | - | - | 0 | NA | NA | NA | NA | NA | 143.46% | 143.46% | 143.46% | 143.46% | 143.46% |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | 143.46% | 143.46% | 143.46% | 143.46% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | 143.46% | 143.46% | 143.46% |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 143.46% | 143.46% |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 143.46% |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | - | 21,032 | (1,056) | 22,088 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | - | 20,136 | - | 20,136 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

**Xcel Energy Common Plant
 General Stores Equipment
 Account 393
 2000-2016**

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2003 | 125,531 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2004 | 51,469 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2005 | 69,759 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2006 | 165,198 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2007 | 113,152 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 351,877 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 43,860 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 9,329 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2014 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 12,021 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Xcel Energy Common Plant
 General Tools, Shop & Garage Equipment
 Account 394
 2000-2016**

| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
|------------------|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | 271,426 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2003 | 126,619 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2004 | 236,890 | 5,379 | - | 5,379 | 2.27% | 1.48% | 0.85% | 0.85% | 0.85% | 0.85% | 0.85% | 0.85% | 0.85% | 0.85% |
| 2005 | 568,743 | - | - | 0 | NA | 0.67% | 0.58% | 0.45% | 0.45% | 0.45% | 0.45% | 0.45% | 0.45% | 0.45% |
| 2006 | 139,917 | 12,259 | 2,642 | 9,617 | NA | 1.36% | 1.59% | 1.40% | 1.12% | 1.12% | 1.12% | 1.12% | 1.12% | 1.12% |
| 2007 | 368,342 | - | - | 0 | 0.00% | 1.89% | 0.89% | 1.14% | 1.04% | 0.88% | 0.88% | 0.88% | 0.88% | 0.88% |
| 2008 | 98,515 | - | - | 0 | 0.00% | 0.00% | 1.58% | 0.82% | 1.06% | 0.97% | 0.83% | 0.83% | 0.83% | 0.83% |
| 2009 | 291,266 | - | - | 0 | 0.00% | 0.00% | 0.00% | 1.07% | 0.66% | 0.88% | 0.82% | 0.71% | 0.71% | 0.71% |
| 2010 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 1.07% | 0.66% | 0.88% | 0.82% | 0.71% | 0.71% |
| 2011 | 170,079 | - | 7,103 | (7,103) | -4.18% | -4.18% | -1.54% | -1.27% | -0.77% | 0.24% | 0.15% | 0.42% | 0.39% | 0.35% |
| 2012 | 66,031 | - | - | 0 | NA | -3.01% | -3.01% | -1.35% | -1.13% | -0.71% | 0.22% | 0.15% | 0.41% | 0.38% |
| 2013 | 334,636 | - | 20,310 | (20,310) | NA | -5.07% | NA | -4.80% | -4.80% | -3.18% | -2.85% | -2.06% | -1.21% | -0.87% |
| 2014 | - | - | - | 0 | NA | -5.07% | NA | -5.07% | -4.80% | -3.18% | -2.85% | -2.06% | -1.21% | -0.87% |
| 2015 | 145,898 | - | - | 0 | NA | 0.00% | 0.00% | -4.23% | -3.72% | -3.83% | -3.83% | -2.72% | -2.48% | -1.86% |
| 2016 | 3,890 | - | - | 0 | NA | 0.00% | 0.00% | -4.19% | -3.69% | -3.80% | -3.80% | -2.71% | -2.47% | -1.85% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common General Laboratory Equipment Account 395 2000-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | 26,373 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2003 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2004 | 9,610 | - | - | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2005 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2006 | - | - | - | 0 | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2007 | - | - | - | 0 | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2009 | - | - | - | 0 | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | 0.00% | 0.00% | 0.00% |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00% |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2016 | 36,686 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

| Xcel Energy Common Plant General Power Operated Equipment Account 396 2000-2016 | | | | | | | | | | | | | | |
|--|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2001 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2002 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2003 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2004 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2005 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2006 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2007 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2008 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2009 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2010 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2011 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2012 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2013 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2014 | - | - | - | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2015 | 4,968 | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | - | - | - | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common Plant General Communication Equipment Account 397 2000-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | | | | 0 | NA | | | | | | | | | |
| 2001 | | | | 0 | NA | NA | | | | | | | | |
| 2002 | 2,147,381 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | | | | 0 | #VALUE! | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 5,675,203 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 7,019,641 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 734,267 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | | 0.00% | | | |
| 2007 | 189,472 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2008 | 127,474 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 2009 | 1,147,802 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2010 | | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2011 | 1,105,612 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2012 | 109,489 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2013 | 44,115 | | 150 | (150) | NA | -0.10% | -0.01% | -0.01% | -0.01% | -0.01% | -0.01% | 0.00% | 0.00% | 0.00% |
| 2014 | 545,824 | | | 0 | NA | -0.03% | -0.02% | -0.01% | -0.01% | -0.01% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2015 | 59,122 | | | 0 | NA | 0.00% | -0.02% | -0.02% | -0.01% | -0.01% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2016 | 24,140 | 12,270 | | 12,270 | NA | 14.74% | 1.95% | 1.80% | 1.55% | 0.64% | 0.64% | 0.40% | 0.38% | 0.36% |

| Xcel Energy Common Plant General Communication Equipment - AES Account 397 2000-2016 | | | | | | | | | | | | | | |
|---|-----------------------------------|---------|--------------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | 3,669,806 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 380,447 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 836,004 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 490,062 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | - | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 2,720,952 | | 395,655 | (395,655) | -14.54% | -14.54% | -12.32% | -9.78% | -8.94% | -4.89% | -4.89% | -4.89% | | |
| 2008 | 97,882 | | | 0 | 0.00% | -14.04% | -14.04% | -11.96% | -9.55% | -8.74% | -4.83% | -4.83% | -4.83% | |
| 2009 | - | | | 0 | NA | 0.00% | -14.04% | -14.04% | -11.96% | -9.55% | -8.74% | -4.83% | -4.83% | -4.83% |
| 2010 | - | | | 0 | NA | 0.00% | -14.04% | -14.04% | -11.96% | -9.55% | -8.74% | -4.83% | -4.83% | -4.83% |
| 2011 | 3,562,640 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | -6.20% | -6.20% | -5.76% | -5.13% | -4.89% | -3.37% |
| 2012 | 188,021 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | -6.02% | -6.02% | -5.60% | -5.01% | -4.78% |
| 2013 | 42,946 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -5.98% | -5.98% | -5.57% | -4.98% |
| 2014 | 3,253 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -5.98% | -5.98% | -5.57% |
| 2015 | 59,122 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -5.93% | -5.93% |
| 2016 | 3,633,035 | | | 0 | NA | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -3.84% |

Northern States Power Company - Minnesota: Transmission, Distribution & General Study

| Xcel Energy Common Plant General Miscellaneous Equipment Account 398 2000-2016 | | | | | | | | | | | | | | |
|---|---|---------|-----------------|----------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Transaction Year | Transactional History Retirements | Salvage | Removal Cost | Net Salvage | Net Salv. % | 2- yr Net Salv. % | 3- yr Net Salv. % | 4- yr Net Salv. % | 5- yr Net Salv. % | 6- yr Net Salv. % | 7- yr Net Salv. % | 8- yr Net Salv. % | 9- yr Net Salv. % | 10- yr Net Salv. % |
| 2000 | - | | | 0 | NA | | | | | | | | | |
| 2001 | - | | | 0 | NA | NA | | | | | | | | |
| 2002 | 225,190 | | | 0 | 0.00% | 0.00% | 0.00% | | | | | | | |
| 2003 | 1,875 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | | | | | | |
| 2004 | 7,482 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| 2005 | 54,187 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | | |
| 2006 | 145,815 | | | 0 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| 2007 | 164,511 | | 7,622 | (7,622) | -4.63% | -2.46% | -2.09% | -2.05% | -2.04% | -1.27% | -1.27% | -1.27% | | |
| 2008 | 42,440 | | | 0 | 0.00% | -3.68% | -2.16% | -1.87% | -1.84% | -1.83% | -1.19% | -1.19% | -1.19% | |
| 2009 | 35,714 | | | 0 | 0.00% | 0.00% | -3.14% | -1.96% | -1.72% | -1.69% | -1.69% | -1.13% | -1.13% | -1.13% |
| 2010 | - | | | 0 | NA | 0.00% | 0.00% | -3.14% | -1.96% | -1.72% | -1.69% | -1.69% | -1.13% | -1.13% |
| 2011 | 18,100 | 0 | 6003 | (6,003) | -33.17% | -33.17% | -11.16% | -6.24% | -5.22% | -3.35% | -2.96% | -2.91% | -2.90% | -1.96% |
| 2012 | | | (1,501) | 1,501 | NA | -24.87% | -24.87% | -8.37% | -4.68% | -4.65% | -2.98% | -2.63% | -2.59% | -2.58% |
| 2013 | 237,763 | | | 0 | NA | 0.63% | -1.76% | -1.76% | -1.54% | -1.35% | -2.43% | -1.88% | -1.74% | -1.72% |
| 2014 | | | | 0 | NA | 0.00% | 0.63% | -1.76% | -1.76% | -1.54% | -1.35% | -2.43% | -1.88% | -1.74% |
| 2015 | 46,651 | | 1,002 | (1,002) | NA | -2.15% | -0.35% | 0.18% | -1.82% | -1.82% | -1.63% | -1.45% | -2.41% | -1.90% |
| 2016 | 57,878 | | | 0 | NA | -0.96% | -0.96% | -0.29% | 0.15% | -1.53% | -1.53% | -1.39% | -1.26% | -2.18% |

Electric Utility

| FERC Account | Account Description | Present (1) | | | | | Proposed (2) | | | | |
|----------------------------------|---|--------------|-------|-------------|-------------|-------|--------------|-------|-------------|-------------|-------|
| | | Average Life | Curve | Net Salvage | Annual Rate | Notes | Average Life | Curve | Net Salvage | Annual Rate | Notes |
| Intangible Plant - Total Company | | | | | | | | | | | |
| | 302 Franchise and Consents | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| | 303 Computer Software 3 Year | 0 | N/A | 0 | 0.00% | (4) | 3 | N/A | 0 | 33.33% | (4) |
| | 303 Computer Software 5 Year | 5 | N/A | 0 | 18.99% | | 5 | N/A | 0 | 22.57% | |
| | 303 Computer Software 7 Year | 0 | N/A | 0 | 0.00% | (4) | 7 | N/A | 0 | 14.29% | (4) |
| | 303 Computer Software 10 Year | 0 | N/A | 0 | 0.00% | (4) | 10 | N/A | 0 | 10.00% | (4) |
| | 303 Computer Software 15 Year | 0 | N/A | 0 | 0.00% | (4) | 15 | N/A | 0 | 6.67% | (4) |
| Transmission - Total Company | | | | | | | | | | | |
| | 352 Structures and Improvements | 68 | R5 | 0 | 1.30% | | 70 | R5 | -5 | 1.46% | |
| | 353 Station Equipment | 56 | R2 | -10 | 1.77% | | 56 | R2 | -15 | 2.01% | |
| | 354 Towers and Fixtures | 70 | R4 | -35 | 1.40% | | 75 | R4 | -35 | 1.38% | |
| | 355 Poles and Fixtures | 62 | R2 | -35 | 2.05% | | 62 | R2 | -50 | 2.41% | |
| | 356 Overhead Conductors and Devices | 63 | R1 | -30 | 1.89% | | 67 | R1 | -35 | 1.90% | |
| | 357 Underground Conduit | 73 | R4 | 0 | 1.22% | | 73 | R4 | 0 | 1.32% | |
| | 358 Underground Conductor and Devices | 55 | R2 | 0 | 1.67% | | 50 | R3 | -5 | 2.01% | |
| | 359 Roads and Trails | 0 | 0 | 0 | 0.00% | (4) | 60 | R3 | 0 | 1.67% | (4) |
| Distribution - ND Only | | | | | | | | | | | |
| | 361 Structures and Improvements | 60 | R3 | -30 | 2.31% | | 63 | R2.5 | -30 | 1.87% | |
| | 362 Station Equipment | 55 | R1.5 | -20 | 2.26% | | 53 | R2 | -25 | 2.41% | |
| | 364 Poles, Towers, and Fixtures | 44 | R1 | -100 | 4.70% | | 47 | R1 | -120 | 4.23% | |
| | 365 Overhead Conductors and Devices | 39 | L0 | -20 | 3.14% | | 39 | L0 | -25 | 3.20% | |
| | 366 Underground Conduit | 52 | R3 | -10 | 2.23% | | 56 | R3 | -20 | 1.87% | |
| | 367 Underground Conductor and Devices | 45 | R2.5 | 0 | 2.30% | | 49 | R1.5 | -10 | 2.12% | |
| | 368 Line Transformers | 32 | N/A | -5 | 3.77% | | 32 | N/A | -5 | 4.25% | |
| | 368 Line Capacitors | 25 | N/A | -10 | 4.62% | | 25 | N/A | -7 | 3.67% | |
| | 369 Overhead Services | 40 | R1.5 | -70 | 4.43% | | 42 | R1.5 | -85 | 4.44% | |
| | 369 Underground Services | 41 | R4 | -5 | 2.71% | | 44 | R4 | -5 | 1.72% | |
| | 370 Meters | 15 | N/A | 0 | 7.96% | | 15 | N/A | -5 | 17.08% | |
| | 373 Street Lighting and Signal Systems | 29 | L0 | -35 | 4.77% | | 29 | L0 | -40 | 4.45% | |
| General - Total Company | | | | | | | | | | | |
| | 390 Structures and Improvements | 57 | R1.5 | -20 | 1.97% | | 55 | R1.5 | -20 | 2.20% | |
| | Structures and Improvements - Leasehold | | | | | | | | | | |
| | 390 Improvements | 10 | SQ | 0 | 0.00% | | 10 | SQ | 0 | 8.18% | (5) |
| | 391 Office Furniture and Equipment | 20 | N/A | 0 | 4.83% | | 20 | N/A | 0 | 4.40% | |
| | 391 Network Equipment | 4 | N/A | 0 | 23.28% | | 6 | N/A | 0 | 13.46% | |
| | 392 Automobiles | 10 | N/A | 0 | 9.82% | | 10 | N/A | 5 | 9.52% | |
| | 392 Light Trucks | 12 | N/A | 0 | 8.12% | | 10 | N/A | 10 | 9.93% | |
| | 392 Trailers | 15 | N/A | 0 | 6.59% | | 12 | N/A | 20 | 5.77% | |
| | 392 Heavy Trucks | 14 | N/A | 0 | 7.02% | | 12 | N/A | 15 | 6.83% | |
| | 393 Stores Equipment | 20 | N/A | 0 | 4.84% | | 20 | N/A | 0 | 4.94% | |
| | 394 Tools, Shop, and Garage Equipment | 15 | N/A | 0 | 6.46% | | 15 | N/A | 0 | 6.82% | |
| | 395 Laboratory Equipment | 10 | N/A | 0 | 9.36% | | 10 | N/A | 0 | 11.02% | |
| | 396 Power Operated Equipment | 12 | N/A | 0 | 8.22% | | 12 | N/A | 15 | 3.63% | |
| | 397 General Communication Equipment | 9 | N/A | 0 | 10.76% | | 10 | N/A | 0 | 8.43% | |
| | 397 Communication Equipment - Two Way | 9 | N/A | 0 | 10.70% | | 10 | N/A | 0 | 10.14% | |
| | 397 Comm. & Telecomm. Equipment - AES | 15 | N/A | 0 | 6.51% | | 15 | N/A | 0 | 6.82% | |
| | 397 Comm. & Telecomm. Equipment - EMS | 15 | N/A | 0 | 6.49% | | 15 | N/A | 0 | 6.39% | |
| | 398 Miscellaneous Equipment | 15 | N/A | 0 | 6.28% | | 15 | N/A | 0 | 6.59% | |

Common Utility

| FERC Account | Account Description | Present (1) | | | | | Proposed (2) | | | | |
|----------------------------------|---|--------------|-------|-------------|-------------|-------|--------------|-------|-------------|-------------|-------|
| | | Average Life | Curve | Net Salvage | Annual Rate | Notes | Average Life | Curve | Net Salvage | Annual Rate | Notes |
| Intangible Plant - Total Company | | | | | | | | | | | |
| 301 | Intangible Organization Costs | 0 | N/A | 0 | 0.00% | | 0 | N/A | 0 | 0.00% | |
| 302 | Franchise and Consents | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| 303 | Computer Software 3 Year | 3 | N/A | 0 | 33.33% | | 3 | N/A | 0 | 37.34% | |
| 303 | Computer Software 5 Year | 5 | N/A | 0 | 20.75% | | 5 | N/A | 0 | 20.97% | |
| 303 | Computer Software 7 Year | 7 | N/A | 0 | 14.29% | | 7 | N/A | 0 | 14.29% | |
| 303 | Computer Software 10 Year | 10 | N/A | 0 | 10.99% | | 10 | N/A | 0 | 9.75% | |
| 303 | Computer Software 15 year | 0 | N/A | 0 | 0.00% | (6) | 15 | N/A | 0 | 6.75% | (6) |
| General - Total Company | | | | | | | | | | | |
| 390 | Structures and Improvements | 55 | R1.5 | -20 | 2.23% | | 50 | L0 | -25 | 2.60% | |
| | Structures and Improvements - Leasehold | | | | | | | | | | |
| 390 | Improvements | 10 | SQ | 0 | 6.67% | (7) | 15 | SQ | 0 | 6.68% | (5) |
| 391 | Office Furniture and Equipment | 20 | N/A | 0 | 5.32% | | 20 | N/A | 0 | 5.15% | |
| 391 | Network Equipment | 4 | N/A | 0 | 25.97% | | 5 | N/A | 0 | 18.09% | |
| 392 | Automobiles | 10 | N/A | 0 | 10.24% | | 10 | N/A | 5 | 7.87% | |
| 392 | Light Trucks | 12 | N/A | 0 | 8.79% | | 10 | N/A | 10 | 8.50% | |
| 392 | Trailers | 15 | N/A | 0 | 6.82% | | 12 | N/A | 20 | 5.11% | |
| 392 | Heavy Trucks | 14 | N/A | 0 | 7.39% | | 12 | N/A | 15 | 6.57% | |
| 393 | Stores Equipment | 20 | N/A | 0 | 5.03% | | 20 | N/A | 0 | 4.96% | |
| 394 | Tools, Shop, and Garage Equipment | 15 | N/A | 0 | 6.84% | | 15 | N/A | 0 | 6.67% | |
| 395 | Laboratory Equipment | 10 | N/A | 0 | 11.61% | | 10 | N/A | 0 | 10.00% | |
| 396 | Power Operated Equipment | 12 | N/A | 0 | 8.55% | | 12 | N/A | 15 | 5.73% | |
| 397 | Comm. & Telecomm. Equipment | 9 | N/A | 0 | 11.90% | | 10 | N/A | 0 | 6.48% | |
| 397 | Communication Equipment - Two Way | 9 | N/A | 0 | 12.06% | | 10 | N/A | 0 | 9.82% | |
| 397 | Communication Equipment - Smart Grid | 0 | N/A | 0 | 0.00% | (6) | 10 | N/A | 0 | 10.00% | |
| 398 | Miscellaneous Equipment | 15 | N/A | 0 | 7.20% | | 15 | N/A | 0 | 6.13% | |

(1) Approved depreciation rates and parameters from Case No. PU-12-813

(2) Proposed depreciation parameters for Average Life, Curve, and Net Salvage are from the Alliance report at Schedule 7.

(3) Amortized over the terms of the franchise agreements or license.

(4) Currently there is no balance in these accounts. In the event plant is added to these accounts, the Company is requests authorization to use the depreciation rate proposed based on the proposed parameters for each account.

(5) Depreciated over lease term.

(6) New subaccount not in prior case.

(7) Although the stated approved rate from PU-12-813 is 10.78%, the assets in this group are depreciated over their appropriate lease term. The assets in this group at the time of filing the last case had an approximate 10 year term. The assets currently in this group were in-serviced in 2016 and have a 15 year life. Therefore, the present annual depreciation rate represents 1 divided by the term of 15 years, or 6.67%.

Electric Utility
Excluding Fully Accrued Assets

| FERC Account | Account Description | Adjusted Plant 1/1/2020 | Depreciation Reserve 1/1/2020 | Est. Future Net Salvage | | Unaccrued Balance | Proposed Remaining Life (Yrs) | Annual Accrual | Depreciation/Amortization Rate | Reserve Ratio | Note |
|----------------------------------|------------------------------------|----------------------------|----------------------------------|-------------------------|-----------------|-------------------|-------------------------------|----------------|--------------------------------|---------------|------|
| | | | | % | Amount | | | | | | |
| Intangible Plant - Total Company | | | | | | | | | | | |
| 302 | Franchise and Consents | \$ 254,353,164 | \$ 92,129,160 | 0% | \$ - | \$ 162,224,004 | 0.00 | \$ - | 0.00% | 36.22% | |
| 303 | Computer Software 3 Year | - | - | 0% | - | - | 0.00 | - | 33.33% | 0.00% | |
| 303 | Computer Software 5 Year | 84,834,782 | 39,752,559 | 0% | - | 45,082,224 | 2.35 | 19,148,393 | 22.57% | 46.86% | |
| 303 | Computer Software 7 Year | - | - | 0% | - | - | 0.00 | - | 14.29% | 0.00% | |
| 303 | Computer Software 10 Year | - | - | 0% | - | - | 0.00 | - | 10.00% | 0.00% | |
| 303 | Computer Software 15 Year | - | - | 0% | - | - | 0.00 | - | 6.67% | 0.00% | |
| | Total Intangible Plant | 339,187,946 | 131,881,718 | | - | 207,306,228 | | 19,148,393 | | | |
| Transmission - Total Company | | | | | | | | | | | |
| 352 | Structures and Improvements | 125,866,620 | 25,783,317 | -5% | (6,293,331) | 106,376,634 | 58.07 | 1,831,898 | 1.46% | 20.48% | |
| 353 | Station Equipment | 1,282,548,604 | 356,938,460 | -15% | (192,382,291) | 1,117,992,434 | 43.40 | 25,762,300 | 2.01% | 27.83% | |
| 354 | Towers and Fixtures | 118,022,279 | 93,957,416 | -35% | (41,307,798) | 65,372,661 | 40.02 | 1,633,538 | 1.38% | 79.61% | |
| 355 | Poles and Fixtures | 1,441,024,312 | 280,060,038 | -50% | (720,512,156) | 1,881,476,430 | 54.11 | 34,770,642 | 2.41% | 19.43% | |
| 356 | Overhead Conductors and Devices | 595,600,941 | 155,146,601 | -35% | (208,460,329) | 648,914,670 | 57.48 | 11,290,277 | 1.90% | 26.05% | |
| 357 | Underground Conduit | 29,883,406 | 5,845,634 | 0% | - | 24,037,772 | 60.84 | 395,084 | 1.32% | 19.56% | |
| 358 | Underground Conductor and Devices | 36,985,970 | 10,215,408 | -5% | (1,849,298) | 28,619,860 | 38.51 | 743,203 | 2.01% | 27.62% | |
| 359 | Roads and Trails | - | - | 0% | - | - | 0.00 | - | 1.67% | 0.00% | |
| | Total Transmission | 3,629,932,132 | 927,946,874 | | (1,170,805,203) | 3,872,790,461 | | 76,426,942 | | | |
| Distribution - ND Only | | | | | | | | | | | |
| 361 | Structures and Improvements | 1,089,400 | 541,555 | -30% | (326,820) | 874,665 | 42.96 | 20,362 | 1.87% | 49.71% | |
| 362 | Station Equipment | 34,463,023 | 8,450,072 | -25% | (8,615,756) | 34,628,706 | 41.74 | 829,715 | 2.41% | 24.52% | |
| 364 | Poles, Towers, and Fixtures | 17,242,070 | 12,946,269 | -120% | (20,690,484) | 24,986,284 | 34.23 | 729,914 | 4.23% | 75.09% | |
| 365 | Overhead Conductors and Devices | 22,573,598 | 6,380,243 | -25% | (5,643,399) | 21,836,754 | 30.19 | 723,355 | 3.20% | 28.26% | |
| 366 | Underground Conduit | 7,319,050 | 4,253,324 | -20% | (1,463,810) | 4,529,536 | 33.07 | 136,984 | 1.87% | 58.11% | |
| 367 | Underground Conductor and Devices | 66,455,866 | 22,068,896 | -10% | (6,645,587) | 51,032,557 | 36.28 | 1,406,599 | 2.12% | 33.21% | |
| 368 | Line Transformers | 26,472,691 | 5,532,556 | -5% | (1,323,635) | 22,263,769 | 19.77 | 1,126,051 | 4.25% | 20.90% | |
| 368 | Line Capacitors | 619,830 | 309,104 | -7% | (43,388) | 354,114 | 15.57 | 22,737 | 3.67% | 49.87% | |
| 369 | Overhead Services | 5,645,012 | 4,372,423 | -85% | (4,798,260) | 6,070,848 | 24.23 | 250,557 | 4.44% | 77.46% | |
| 369 | Underground Services | 9,384,994 | 6,014,824 | -5% | (469,250) | 3,839,420 | 23.80 | 161,317 | 1.72% | 64.09% | |
| 370 | Meters | 3,396,024 | (1,010,720) | -5% | (169,801) | 4,576,545 | 7.89 | 580,130 | 17.08% | -29.76% | |
| 373 | Street Lighting and Signal Systems | 3,206,047 | 1,105,849 | -40% | (1,282,419) | 3,382,617 | 23.69 | 142,761 | 4.45% | 34.49% | |
| | Total Distribution - ND Only | \$ 197,867,604 | \$ 70,964,396 | | \$ (51,472,608) | \$ 178,375,816 | | \$ 6,130,480 | | | |

| FERC Account | Account Description | Adjusted Plant 1/1/2020 | Depreciation Reserve 1/1/2020 | Est. Future Net Salvage | | Unaccrued Balance | Proposed Remaining Life (Yrs) | Annual Accrual | Depreciation/ Amortization Rate | Reserve Ratio | Note |
|-------------------------|---|-------------------------------|-------------------------------------|----------------------------|--------------------|----------------------|--|-------------------|---------------------------------------|------------------|------|
| | | | | % | Amount | | | | | | |
| General - Total Company | | | | | | | | | | | |
| 390 | Structures and Improvements | \$ 72,970,511 | \$ 26,628,536 | -20% | \$ (14,594,102) | \$ 60,936,077 | 37.91 | \$ 1,607,403 | 2.20% | 36.49% | |
| | Structures and Improvements - Leasehold | | | | | | | | | | |
| 390 | Improvements | 1,075,433 | 352,898 | 0% | - | 722,535 | 8.22 | 87,919 | 8.18% | 32.81% | |
| 391 | Office Furniture and Equipment | 31,852,266 | 19,329,498 | 0% | - | 12,522,768 | 8.94 | 1,400,602 | 4.40% | 60.68% | |
| 391 | Network Equipment | 48,587,258 | 28,849,203 | 0% | - | 19,738,055 | 3.02 | 6,539,973 | 13.46% | 59.38% | |
| 392 | Automobiles | 6,383,510 | 1,412,787 | 5% | 319,175 | 4,651,547 | 7.66 | 607,419 | 9.52% | 22.13% | |
| 392 | Light Trucks | 26,363,136 | 11,863,590 | 10% | 2,636,314 | 11,863,232 | 4.53 | 2,618,110 | 9.93% | 45.00% | |
| 392 | Trailers | 20,963,111 | 9,126,295 | 20% | 4,192,622 | 7,644,193 | 6.32 | 1,209,136 | 5.77% | 43.54% | |
| 392 | Heavy Trucks | 106,143,649 | 46,412,379 | 15% | 15,921,547 | 43,809,723 | 6.04 | 7,254,557 | 6.83% | 43.73% | |
| 393 | Stores Equipment | 1,624,278 | 923,711 | 0% | - | 700,567 | 8.72 | 80,302 | 4.94% | 56.87% | |
| 394 | Tools, Shop, and Garage Equipment | 99,182,174 | 40,454,197 | 0% | - | 58,727,977 | 8.68 | 6,764,978 | 6.82% | 40.79% | |
| 395 | Laboratory Equipment | 2,570,365 | 1,304,300 | 0% | - | 1,266,064 | 4.47 | 283,148 | 11.02% | 50.74% | |
| 396 | Power Operated Equipment | 51,534,536 | 33,283,045 | 15% | 7,730,180 | 10,521,311 | 5.63 | 1,870,178 | 3.63% | 64.58% | |
| 397 | General Communication Equipment | 11,245,667 | 8,410,341 | 0% | - | 2,835,326 | 2.99 | 948,249 | 8.43% | 74.79% | |
| 397 | Communication Equipment - Two Way | 58,409,389 | 13,600,117 | 0% | - | 44,809,272 | 7.57 | 5,920,122 | 10.14% | 23.28% | |
| 397 | Comm. & Telecomm. Equipment - AES | 6,539,567 | 4,369,037 | 0% | - | 2,170,529 | 4.87 | 445,789 | 6.82% | 66.81% | |
| 397 | Comm. & Telecomm. Equipment - EMS | 41,674,693 | 16,120,977 | 0% | - | 25,553,716 | 9.59 | 2,664,843 | 6.39% | 38.68% | |
| 398 | Miscellaneous Equipment | 1,597,851 | 571,524 | 0% | - | 1,026,327 | 9.75 | 105,240 | 6.59% | 35.77% | |
| | Total General | 588,717,392 | 263,012,436 | | 16,205,737 | 309,499,220 | | 40,407,968 | | | |
| | Total Electric Utility | \$ 4,755,705,075 | \$ 1,393,805,425 | | \$ (1,206,072,074) | \$ 4,567,971,725 | | \$ 142,113,783 | | | |

Common Utility
Excluding Fully Accrued Assets

| FERC Account | Account Description | Adjusted Plant 1/1/2020 | Depreciation Reserve 1/1/2020 | Est. Future Net Salvage | | Unaccrued Balance | Proposed Remaining Life (Yrs) | Annual Accrual | Depreciation/Amortization Rate | Reserve Ratio | Note |
|----------------------------------|---|----------------------------|----------------------------------|-------------------------|--------------------|-------------------|-------------------------------|----------------|--------------------------------|---------------|------|
| | | | | % | Amount | | | | | | |
| Intangible Plant - Total Company | | | | | | | | | | | |
| 301 | Intangible Organization Costs | \$ 100,608 | \$ - | 0% | \$ - | \$ 100,608 | 0.00 | \$ - | 0.00% | 0.00% | |
| 302 | Franchise and Consents | - | - | 0% | - | - | 0.00 | - | 0.00% | 0.00% | |
| 303 | Computer Software 3 Year | 9,540,269 | 3,532,506 | 0% | - | 6,007,763 | 1.69 | 3,562,549 | 37.34% | 37.03% | |
| 303 | Computer Software 5 Year | 140,166,559 | 53,222,112 | 0% | - | 86,944,447 | 2.96 | 29,399,316 | 20.97% | 37.97% | |
| 303 | Computer Software 7 Year | - | - | 0% | - | - | 0.00 | - | 14.29% | 0.00% | |
| 303 | Computer Software 10 Year | 11,291,873 | 7,150,132 | 0% | - | 4,141,742 | 3.76 | 1,100,465 | 9.75% | 63.32% | |
| 303 | Computer Software 15 year | 165,829,929 | 30,154,197 | 0% | - | 135,675,732 | 12.13 | 11,188,909 | 6.75% | 18.18% | |
| | Total Intangible Plant | 326,929,238 | 94,058,947 | | - | 232,870,291 | | 45,251,238 | | | |
| General - Total Company | | | | | | | | | | | |
| 390 | Structures and Improvements | 187,900,208 | 24,171,229 | -25% | (46,975,052) | 210,704,032 | 43.19 | 4,878,206 | 2.60% | 12.86% | |
| | Structures and Improvements - Leasehold | | | | | | | | | | |
| 390 | Improvements | 18,094,329 | 4,114,677 | 0% | - | 13,979,652 | 11.56 | 1,209,274 | 6.68% | 22.74% | |
| 391 | Office Furniture and Equipment | 25,562,914 | 10,017,231 | 0% | - | 15,545,683 | 11.81 | 1,316,171 | 5.15% | 39.19% | |
| 391 | Network Equipment | 128,574,645 | 65,336,905 | 0% | - | 63,237,740 | 2.72 | 23,259,034 | 18.09% | 50.82% | |
| 392 | Automobiles | 1,482,184 | 768,356 | 5% | 74,109 | 639,719 | 5.48 | 116,643 | 7.87% | 51.84% | |
| 392 | Light Trucks | 3,090,043 | 1,496,680 | 10% | 309,004 | 1,284,359 | 4.89 | 262,673 | 8.50% | 48.44% | |
| 392 | Trailers | 614,710 | 351,557 | 20% | 122,942 | 140,211 | 4.46 | 31,441 | 5.11% | 57.19% | |
| 392 | Heavy Trucks | 4,049,469 | 1,679,616 | 15% | 607,420 | 1,762,433 | 6.62 | 266,225 | 6.57% | 41.48% | |
| 393 | Stores Equipment | 246,162 | 79,322 | 0% | - | 166,840 | 13.67 | 12,209 | 4.96% | 32.22% | |
| 394 | Tools, Shop, and Garage Equipment | 4,630,324 | 1,932,092 | 0% | - | 2,698,232 | 8.74 | 308,718 | 6.67% | 41.73% | |
| 395 | Laboratory Equipment | - | - | 0% | - | - | 0.00 | - | 10.00% | 0.00% | |
| 396 | Power Operated Equipment | 1,027,122 | 494,263 | 15% | 154,068 | 378,791 | 6.43 | 58,898 | 5.73% | 48.12% | |
| 397 | Comm. & Telecomm. Equipment | 148,850 | 120,071 | 0% | - | 28,778 | 2.99 | 9,639 | 6.48% | 80.67% | |
| 397 | Communication Equipment - Two Way | 76,870 | 27,805 | 0% | - | 49,065 | 6.50 | 7,548 | 9.82% | 36.17% | |
| 397 | Communication Equipment - Smart Grid | 529,266 | 33,748 | 0% | - | 495,518 | 9.50 | 52,160 | 10.00% | 6.38% | |
| 398 | Miscellaneous Equipment | 229,106 | 190,365 | 0% | - | 38,741 | 2.76 | 14,054 | 6.13% | 83.09% | |
| | Total General | 376,256,202 | 110,813,918 | | (45,707,508) | 311,149,792 | | 31,802,893 | | | |
| | Total Common Utility | 703,185,439 | 204,872,865 | | (45,707,508) | 544,020,083 | | 77,054,132 | | | |
| | Total Electric and Common | \$ 5,458,890,515 | \$ 1,598,678,289 | | \$ (1,251,779,582) | \$ 5,111,991,807 | | \$ 219,167,915 | | | |

North Dakota

2021 ACCRUAL COMPARISON

| | Present (a) | 75% DOE (b) | 90% DOE (c) | Average (d) = avg (b)(c) | Difference = (d) - (a) |
|-----------------------|------------------|--------------------|--------------------|-----------------------------|---------------------------|
| Monticello | \$276,513 | \$1,291,695 | \$857,464 | \$1,074,580 | \$798,067 |
| Prairie Island Unit 1 | \$0 | \$808,393 | \$655,843 | \$732,118 | \$732,118 |
| Prairie Island Unit 2 | \$0 | \$513,637 | \$372,971 | \$443,304 | \$443,304 |
| TOTAL | \$276,513 | \$2,613,726 | \$1,886,277 | \$2,250,002 | \$1,973,489 |

2021 SUMMARY

| | Operational Earnings Rate | Post-Shutdown Earnings Rate | Market Value Balance 6/30/2020 | Book Value 6/30/2020 | Unrealized Gain/Loss 6/30/2020 | Tax-Effect Adjustment | Tax-Adjusted Fund Balance 6/30/2020 | 2021 Proforma Decommissioning Accrual |
|--------------------------------------|---------------------------------|-----------------------------------|--------------------------------------|-------------------------|--------------------------------------|--------------------------|---|---|
| Monticello | 4.68% | 3.82% | \$51,901,470 | \$37,950,615 | \$13,950,856 | \$3,883,918 | \$48,017,552 | \$ 1,291,695 |
| Prairie Island Unit 1 | 4.67% | 3.53% | \$34,423,105 | \$25,302,319 | 9,120,786 | 2,539,227 | 31,883,878 | 808,393 |
| Prairie Island Unit 2 | 4.73% | 3.44% | \$36,919,829 | \$26,798,304 | 10,121,526 | 2,817,833 | 34,101,997 | 513,637 |
| TOTAL DECOMMISSIONING ACCRUAL | | | \$123,244,404 | \$90,051,237 | \$33,193,167 | \$9,240,978 | \$114,003,426 | \$2,613,726 |

INPUT DATA

| | |
|------------------------------------|---------|
| Escalation Rate (Labor) | 4.03% |
| Escalation Rate (Non-Labor) | 2.83% |
| Escalation Rate (PIIC) | 0.00% |
| Jurisdictional Factor | 5.1744% |
| Tax Rate for tax-effect adjustment | 27.84% |

AMOUNT TO RECOVER

| | LABOR | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | | |
|------------|--------------------------|-----------------------------------|-------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|-------------|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | | |
| | | | | | | | | | | | | | | | | |
| Monticello | | | | | | | | | | | | | | | | |
| Values | 2017 | 5.1744% | 4.03% | | | | 2.83% | | | | 0.00% | | | | | |
| 2030 | \$21,103,620 | \$1,091,973 | 1.6713 | \$1,825,020 | \$8,935,561 | \$462,358 | 1.4373 | \$664,547 | \$0 | \$0 | 1.0000 | \$0 | \$30,039,182 | \$154,334 | \$2,489,566 | |
| 2031 | 72,416,242 | 3,747,073 | 1.7387 | 6,515,035 | 42,961,353 | 2,222,973 | 1.4780 | 3,285,553 | 0 | 0 | 1.0000 | 0 | 115,377,595 | 5,970,045 | 9,890,589 | |
| 2032 | 78,476,357 | 4,060,645 | 1.8088 | 7,344,894 | 102,263,189 | 5,291,460 | 1.5198 | 8,041,960 | 0 | 0 | 1.0000 | 0 | 180,739,546 | 9,352,104 | 15,386,854 | |
| 2033 | 78,663,227 | 4,070,314 | 1.8816 | 7,658,703 | 100,155,666 | 5,182,409 | 1.5629 | 8,099,587 | 0 | 0 | 1.0000 | 0 | 178,818,892 | 9,252,723 | 15,758,289 | |
| 2034 | 66,380,423 | 3,434,758 | 1.9575 | 6,723,539 | 38,894,671 | 1,6071 | 2,012,548 | 3,234,366 | 0 | 0 | 1.0000 | 0 | 105,275,094 | 5,447,306 | 9,957,905 | |
| 2035 | 86,879,803 | 4,495,469 | 2.0364 | 9,154,572 | 113,147,091 | 5,854,631 | 1.6526 | 9,675,364 | 0 | 0 | 1.0000 | 0 | 200,026,894 | 10,350,100 | 18,829,936 | |
| 2036 | 50,307,504 | 2,603,088 | 2.1184 | 5,514,385 | 20,688,337 | 1,070,488 | 1.6993 | 1,819,080 | 0 | 0 | 1.0000 | 0 | 70,995,841 | 3,673,576 | 7,333,462 | |
| 2037 | 34,623,126 | 1,791,523 | 2.2038 | 3,948,159 | 14,196,883 | 734,597 | 1.7474 | 1,283,635 | 0 | 0 | 1.0000 | 0 | 48,820,010 | 2,526,120 | 5,231,794 | |
| 2038 | 25,156,478 | 1,301,685 | 2.2926 | 2,984,244 | 13,523,979 | 699,779 | 1.7969 | 1,257,432 | 0 | 0 | 1.0000 | 0 | 38,680,457 | 2,001,464 | 4,241,676 | |
| 2039 | 1,500,016 | 77,616 | 2.3850 | 185,114 | 612,162 | 31,675 | 1.8477 | 58,527 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 243,641 | |
| 2040 | 1,516,203 | 78,454 | 2.4811 | 194,652 | 618,018 | 31,978 | 1.9000 | 60,759 | 0 | 0 | 1.0000 | 0 | 2,134,221 | 110,432 | 255,411 | |
| 2041 | 1,500,016 | 77,616 | 2.5811 | 200,335 | 612,162 | 31,675 | 1.9538 | 61,887 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 262,223 | |
| 2042 | 1,500,016 | 77,616 | 2.6851 | 208,407 | 612,162 | 31,675 | 2.0091 | 63,639 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 272,046 | |
| 2043 | 1,500,016 | 77,616 | 2.7933 | 216,805 | 612,162 | 31,675 | 2.0659 | 65,438 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 282,243 | |
| 2044 | 1,516,203 | 78,454 | 2.9059 | 227,979 | 618,018 | 31,978 | 2.1244 | 67,935 | 0 | 0 | 1.0000 | 0 | 2,134,221 | 110,432 | 295,914 | |
| 2045 | 1,500,016 | 77,616 | 3.0230 | 234,634 | 612,162 | 31,675 | 2.1845 | 69,195 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 303,829 | |
| 2046 | 1,500,016 | 77,616 | 3.1448 | 244,087 | 612,162 | 31,675 | 2.2463 | 71,153 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 315,240 | |
| 2047 | 1,500,016 | 77,616 | 3.2716 | 253,929 | 612,162 | 31,675 | 2.3099 | 73,167 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 327,096 | |
| 2048 | 2,179,848 | 112,793 | 3.4034 | 383,880 | 2,608,953 | 134,996 | 2.3753 | 320,657 | 0 | 0 | 1.0000 | 0 | 4,788,801 | 247,790 | 704,537 | |
| 2049 | 1,500,016 | 77,616 | 3.5406 | 274,808 | 612,162 | 31,675 | 2.4425 | 77,367 | 0 | 0 | 1.0000 | 0 | 2,112,178 | 109,292 | 352,175 | |
| 2050 | 2,993,217 | 154,880 | 3.6833 | 570,468 | 5,091,766 | 263,466 | 2.5116 | 661,721 | 0 | 0 | 1.0000 | 0 | 8,084,983 | 418,346 | 1,232,189 | |
| 2051 | 2,993,217 | 154,880 | 3.8317 | 593,452 | 5,091,766 | 263,466 | 2.5827 | 680,454 | 0 | 0 | 1.0000 | 0 | 8,084,983 | 418,346 | 1,273,906 | |
| 2052 | 3,871,904 | 200,346 | 3.9861 | 798,599 | 7,685,122 | 397,655 | 2.6558 | 1,056,093 | 0 | 0 | 1.0000 | 0 | 11,557,026 | 598,001 | 1,854,093 | |
| 2053 | 4,502,592 | 232,980 | 4.1468 | 966,122 | 9,619,891 | 497,767 | 2.7310 | 1,359,402 | 0 | 0 | 1.0000 | 0 | 14,122,483 | 730,747 | 2,325,524 | |
| 2054 | 3,208,842 | 166,037 | 4.3139 | 716,266 | 5,738,641 | 296,938 | 2.8082 | 833,860 | 0 | 0 | 1.0000 | 0 | 8,947,483 | 462,974 | 1,550,127 | |
| 2055 | 4,286,967 | 221,823 | 4.4877 | 995,474 | 8,973,016 | 464,296 | 2.8877 | 1,340,747 | 0 | 0 | 1.0000 | 0 | 13,259,983 | 686,119 | 2,336,221 | |
| 2056 | 4,734,404 | 244,975 | 4.6686 | 1,143,689 | 10,272,622 | 531,542 | 2.9694 | 1,578,360 | 0 | 0 | 1.0000 | 0 | 15,007,026 | 776,517 | 2,722,050 | |
| 2057 | 1,483,425 | 76,758 | 4.8567 | 372,789 | 562,389 | 29,100 | 3.0535 | 88,857 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 461,646 | |
| 2058 | 1,483,425 | 76,758 | 5.0525 | 387,818 | 562,389 | 29,100 | 3.1399 | 91,371 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 479,189 | |
| 2059 | 1,483,425 | 76,758 | 5.2561 | 403,446 | 562,389 | 29,100 | 3.2287 | 93,955 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 497,401 | |
| 2060 | 1,499,612 | 77,595 | 5.4679 | 424,283 | 568,245 | 29,403 | 3.3201 | 97,621 | 0 | 0 | 1.0000 | 0 | 2,067,857 | 106,998 | 521,904 | |
| 2061 | 1,483,425 | 76,758 | 5.6882 | 436,613 | 562,389 | 29,100 | 3.4141 | 99,350 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 535,963 | |
| 2062 | 1,483,425 | 76,758 | 5.9175 | 454,213 | 562,389 | 29,100 | 3.5107 | 102,161 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 556,375 | |
| 2063 | 1,483,425 | 76,758 | 6.1560 | 472,520 | 562,389 | 29,100 | 3.6100 | 105,051 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 577,571 | |
| 2064 | 1,499,612 | 77,595 | 6.4040 | 496,920 | 568,245 | 29,403 | 3.7122 | 109,150 | 0 | 0 | 1.0000 | 0 | 2,067,857 | 106,998 | 606,070 | |
| 2065 | 1,483,425 | 76,758 | 6.6621 | 511,367 | 562,389 | 29,100 | 3.8173 | 111,084 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 622,451 | |
| 2066 | 1,483,425 | 76,758 | 6.9306 | 531,977 | 562,389 | 29,100 | 3.9253 | 114,226 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 646,203 | |
| 2067 | 1,483,425 | 76,758 | 7.2099 | 553,415 | 562,389 | 29,100 | 4.0364 | 117,459 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 670,874 | |
| 2068 | 1,499,612 | 77,595 | 7.5005 | 582,003 | 568,245 | 29,403 | 4.1506 | 122,040 | 0 | 0 | 1.0000 | 0 | 2,067,857 | 106,998 | 704,043 | |
| 2069 | 1,483,425 | 76,758 | 7.8027 | 598,917 | 562,389 | 29,100 | 4.2681 | 124,202 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 723,119 | |
| 2070 | 1,483,425 | 76,758 | 8.1172 | 623,057 | 562,389 | 29,100 | 4.3889 | 127,717 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 750,774 | |
| 2071 | 1,483,425 | 76,758 | 8.4443 | 648,165 | 562,389 | 29,100 | 4.5131 | 131,331 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 779,496 | |
| 2072 | 1,499,612 | 77,595 | 8.7846 | 681,643 | 568,245 | 29,403 | 4.6408 | 136,454 | 0 | 0 | 1.0000 | 0 | 2,067,857 | 106,998 | 818,097 | |
| 2073 | 1,483,425 | 76,758 | 9.1386 | 701,458 | 562,389 | 29,100 | 4.7721 | 138,868 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 840,326 | |
| 2074 | 1,483,425 | 76,758 | 9.5069 | 729,727 | 562,389 | 29,100 | 4.9072 | 142,800 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 872,527 | |
| 2075 | 1,483,425 | 76,758 | 9.8901 | 759,141 | 562,389 | 29,100 | 5.0460 | 146,839 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 905,980 | |
| 2076 | 1,499,612 | 77,595 | 10.2886 | 798,346 | 568,245 | 29,403 | 5.1888 | 152,566 | 0 | 0 | 1.0000 | 0 | 2,067,857 | 106,998 | 950,913 | |
| 2077 | 1,483,425 | 76,758 | 10.7033 | 821,560 | 562,389 | 29,100 | 5.3357 | 155,209 | 0 | 0 | 1.0000 | 0 | 2,045,814 | 105,858 | 976,829 | |
| 2078 | 1,961,857 | 101,513 | 11.1346 | 1,130,311 | 1,982,353 | 102,574 | 5.4867 | 562,793 | 0 | 0 | 1.0000 | 0 | 3,944,210 | 204,087 | 1,693,104 | |
| 2079 | 2,057,543 | 106,465 | 11.5833 | 1,233,211 | 2,269,412 | 117,427 | 5.6420 | 662,255 | 0 | 0 | 1.0000 | 0 | 4,326,955 | 223,892 | 1,895,736 | |
| 2080 | 1,978,045 | 102,351 | 12.0501 | 1,233,540 | 1,988,167 | 102,875 | 5.8016 | 596,838 | 0 | 0 | 1.0000 | 0 | 3,966,212 | 205,226 | 1,830,179 | |
| 2081 | 1,961,857 | 101,513 | 12.5357 | 1,272,542 | 1,982,353 | 102,574 | 5.9658 | 611,936 | 0 | 0 | 1.0000 | 0 | 3,944,210 | 204,087 | 1,884,478 | |
| 2082 | 1,961,857 | 101,513 | 13.0409 | 1,323,826 | 1,982,353 | 102,574 | 6.1346 | 629,250 | 0 | 0 | 1.0000 | 0 | 3,944,210 | 204,087 | 1,933,077 | |
| 2083 | 2,057,543 | 106,465 | 13.5665 | 1,444,351 | 2,269,412 | 117,427 | 6.3083 | 740,767 | 0 | 0 | 1.0000 | 0 | 4,326,955 | 223,892 | 2,185,119 | |
| 2084 | 1,978,045 | 102,351 | 14.1132 | 1,444,501 | 1,988,167 | 102,875 | 6.4868 | 667,328 | 0 | 0 | 1.0000 | 0 | 3,966,212 | 205,226 | 2,111,829 | |
| 2085 | 1,961,857 | 101,513 | 14.6820 | 1,490,420 | 1,982,353 | 102,574 | 6.6704 | 684,209 | 0 | 0 | 1.0000 | 0 | 3,944,210 | 204,087 | 2,174,629 | |
| 2086 | 1,961,857 | 101,513 | 15.2737 | 1,550,486 | 1,982,353 | 102,574 | 6.8591 | 703,565 | 0 | 0 | 1.0000 | 0 | 3,944,210 | 204,087 | 2,254,051 | |
| 2087 | 2,057,543 | 106,465 | 15.8892 | 1,691,637 | 2,269,412 | 117,427 | 7.0532 | 828,239 | 0 | 0 | 1.0000 | 0 | 4,326,955 | 223,892 | 2,519,876 | |
| 2088 | 2,641,689 | 136,690 | 16.5295 | 2,259,423 | 3,979,101 | 205,893 | 7.2528 | 1,493,299 | 0 | 0</ | | | | | | |

AMOUNT TO RECOVER

| | LABOR | | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | |
|------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | |
| | | | | | | | | | | | | | | | | |
| Prairie Island Unit 1 | | | | | | | | | | | | | | | | |
| <i>Values</i> | <i>2017</i> | <i>5.1744%</i> | <i>4.03%</i> | | | | | <i>2.83%</i> | | | | <i>0.00%</i> | | | | |
| 2033 | \$22,324,352 | \$1,155,141 | 1.8816 | \$2,173,513 | \$9,728,959 | \$503,411 | 1.5629 | \$786,781 | \$1,250,000 | \$64,679 | 1.0000 | \$64,679 | \$33,303,311 | \$1,723,231 | \$3,024,974 | |
| 2034 | 63,382,247 | 3,289,971 | 1.9575 | 6,440,117 | 33,397,619 | 1,728,111 | 1.6071 | 2,777,247 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 98,229,866 | 5,082,761 | 9,282,044 | |
| 2035 | 65,877,290 | 3,408,724 | 2.0364 | 6,941,526 | 81,239,936 | 4,203,642 | 1.6526 | 6,946,939 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 148,367,226 | 7,677,046 | 13,953,144 | |
| 2036 | 57,759,315 | 2,988,672 | 2.1184 | 6,331,202 | 65,595,019 | 3,394,119 | 1.6993 | 5,767,626 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 124,604,334 | 6,447,470 | 12,163,507 | |
| 2037 | 38,110,947 | 1,971,995 | 2.2038 | 4,345,883 | 36,889,671 | 1,908,802 | 1.7474 | 3,335,441 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 76,250,618 | 3,945,477 | 7,746,004 | |
| 2038 | 13,207,914 | 683,424 | 2.2926 | 1,566,818 | 18,994,691 | 982,853 | 1.7969 | 1,766,088 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 33,452,605 | 1,730,956 | 3,397,586 | |
| 2039 | 36,035,855 | 1,864,623 | 2.3850 | 4,447,125 | 76,476,728 | 3,957,177 | 1.8477 | 7,311,675 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 113,762,582 | 5,886,479 | 11,823,480 | |
| 2040 | 31,919,556 | 1,651,631 | 2.4811 | 4,097,861 | 13,365,606 | 691,584 | 1.9000 | 1,314,009 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 46,535,162 | 2,407,894 | 5,476,550 | |
| 2041 | 17,321,318 | 896,266 | 2.5811 | 2,313,353 | 8,020,873 | 415,028 | 1.9538 | 810,882 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 26,592,191 | 1,375,974 | 3,188,915 | |
| 2042 | 12,531,952 | 648,448 | 2.6851 | 1,741,147 | 10,243,700 | 530,045 | 2.0091 | 1,064,914 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 24,025,652 | 1,243,172 | 2,870,740 | |
| 2043 | 6,294,452 | 325,697 | 2.7933 | 909,770 | 5,067,672 | 262,219 | 2.0659 | 541,719 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 12,612,125 | 652,596 | 1,516,168 | |
| 2044 | 804,798 | 41,643 | 2.9059 | 121,011 | 514,011 | 26,597 | 2.1244 | 56,502 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 242,192 | |
| 2045 | 796,451 | 41,211 | 3.0230 | 124,581 | 505,298 | 26,146 | 2.1845 | 57,116 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 246,377 | |
| 2046 | 796,451 | 41,211 | 3.1448 | 129,601 | 505,298 | 26,146 | 2.2463 | 58,731 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 253,012 | |
| 2047 | 796,451 | 41,211 | 3.2716 | 134,827 | 505,298 | 26,146 | 2.3099 | 60,394 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 259,900 | |
| 2048 | 804,798 | 41,643 | 3.4034 | 141,728 | 514,011 | 26,597 | 2.3753 | 63,175 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 269,583 | |
| 2049 | 796,451 | 41,211 | 3.5406 | 145,912 | 505,298 | 26,146 | 2.4425 | 65,861 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 274,453 | |
| 2050 | 796,451 | 41,211 | 3.6833 | 151,793 | 505,298 | 26,146 | 2.5116 | 65,668 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 282,141 | |
| 2051 | 796,451 | 41,211 | 3.8317 | 157,909 | 505,298 | 26,146 | 2.5827 | 67,527 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 290,115 | |
| 2052 | 804,798 | 41,643 | 3.9861 | 165,994 | 514,011 | 26,597 | 2.6558 | 70,636 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 301,309 | |
| 2053 | 892,138 | 46,162 | 4.1468 | 191,426 | 792,357 | 40,999 | 2.7310 | 111,969 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,934,495 | 151,841 | 368,075 | |
| 2054 | 987,824 | 51,114 | 4.3139 | 220,499 | 1,079,416 | 55,853 | 2.8082 | 156,846 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 442,024 | |
| 2055 | 987,824 | 51,114 | 4.4877 | 229,382 | 1,079,416 | 55,853 | 2.8877 | 161,286 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 455,348 | |
| 2056 | 1,044,014 | 54,021 | 4.6686 | 252,202 | 1,231,659 | 63,730 | 2.9694 | 189,241 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,525,673 | 182,431 | 506,123 | |
| 2057 | 939,981 | 48,638 | 4.8567 | 236,220 | 935,887 | 48,426 | 3.0535 | 147,869 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 448,768 | |
| 2058 | 1,083,510 | 56,065 | 5.0525 | 283,267 | 1,366,475 | 70,706 | 3.1399 | 222,010 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,699,985 | 191,450 | 569,957 | |
| 2059 | 939,981 | 48,638 | 5.2561 | 255,646 | 935,887 | 48,426 | 3.2287 | 156,353 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 476,679 | |
| 2060 | 900,484 | 46,594 | 5.4679 | 254,773 | 801,070 | 41,450 | 3.3201 | 137,619 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,951,554 | 152,724 | 457,071 | |
| 2061 | 987,824 | 51,114 | 5.6882 | 290,744 | 1,079,416 | 55,853 | 3.4141 | 190,687 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 546,110 | |
| 2062 | 987,824 | 51,114 | 5.9175 | 302,464 | 1,079,416 | 55,853 | 3.5107 | 196,082 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 563,226 | |
| 2063 | 939,981 | 48,638 | 6.1560 | 299,415 | 935,887 | 48,426 | 3.6100 | 174,818 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 538,913 | |
| 2064 | 996,170 | 51,545 | 6.4040 | 330,097 | 1,088,129 | 56,304 | 3.7122 | 209,010 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 603,786 | |
| 2065 | 987,824 | 51,114 | 6.6621 | 340,523 | 1,079,416 | 55,853 | 3.8173 | 213,207 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 618,410 | |
| 2066 | 939,981 | 48,638 | 6.9306 | 337,090 | 935,887 | 48,426 | 3.9253 | 190,087 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 591,856 | |
| 2067 | 987,824 | 51,114 | 7.2099 | 368,523 | 1,079,416 | 55,853 | 4.0364 | 225,444 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 658,647 | |
| 2068 | 996,170 | 51,545 | 7.5005 | 386,616 | 1,088,129 | 56,304 | 4.1506 | 233,694 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 684,989 | |
| 2069 | 939,981 | 48,638 | 7.8027 | 379,507 | 935,887 | 48,426 | 4.2681 | 206,687 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 650,874 | |
| 2070 | 987,824 | 51,114 | 8.1172 | 414,899 | 1,079,416 | 55,853 | 4.3889 | 245,132 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 724,710 | |
| 2071 | 987,824 | 51,114 | 8.4443 | 431,618 | 1,079,416 | 55,853 | 4.5131 | 252,069 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 748,366 | |
| 2072 | 996,170 | 51,545 | 8.7846 | 452,805 | 1,088,129 | 56,304 | 4.6408 | 261,294 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 778,779 | |
| 2073 | 987,824 | 51,114 | 9.1386 | 467,106 | 1,079,416 | 55,853 | 4.7721 | 266,535 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 798,320 | |
| 2074 | 987,824 | 51,114 | 9.5069 | 485,931 | 1,079,416 | 55,853 | 4.9072 | 274,081 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 824,691 | |
| 2075 | 1,319,646 | 68,283 | 9.8901 | 675,327 | 2,074,884 | 107,362 | 5.0460 | 541,748 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 4,644,530 | 240,324 | 1,281,754 | |
| 2076 | 996,170 | 51,545 | 10.2886 | 530,330 | 1,088,129 | 56,304 | 5.1888 | 292,148 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 887,157 | |
| 2077 | 987,974 | 51,121 | 10.7033 | 547,166 | 1,272,775 | 658,580 | 5.3357 | 3,513,986 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 14,965,749 | 774,381 | 4,125,832 | |
| 2078 | (1,417,257) | (73,334) | 11.1346 | (816,545) | 3,195,063 | 165,324 | 5.4867 | 907,082 | 0 | 1.0000 | 0 | 1,777,806 | 91,990 | 90,539 | | |
| | \$395,531,633 | \$20,466,207 | | \$50,728,706 | \$405,609,673 | \$20,987,681 | | \$42,663,918 | \$56,250,000 | \$2,910,574 | | \$2,910,574 | \$857,391,305 | \$44,364,463 | \$96,303,198 | |

AMOUNT TO RECOVER

| | LABOR | | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | |
|------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | |
| | | | | | | | | | | | | | | | | |
| Prairie Island Unit 2 | | | | | | | | | | | | | | | | |
| <i>Values</i> | <i>2017</i> | <i>5.1744%</i> | <i>4.03%</i> | | | | <i>2.83%</i> | | | | | <i>0.00%</i> | | | | |
| 2034 | \$7,760,265 | \$401,544 | 1.9575 | \$786,022 | \$4,479,535 | \$231,787 | 1.6071 | \$372,505 | \$1,250,000 | \$64,679 | 1.0000 | \$64,679 | \$13,489,800 | \$698,010 | \$1,223,206 | |
| 2035 | 46,911,429 | 2,427,363 | 2.0364 | 4,943,083 | 35,601,339 | 1,842,139 | 1.6526 | 3,044,319 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 83,762,768 | 4,334,182 | 8,052,082 | |
| 2036 | 67,514,044 | 3,493,416 | 2.1184 | 7,400,452 | 86,298,832 | 4,465,407 | 1.6993 | 7,588,066 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 155,062,875 | 8,023,502 | 15,053,198 | |
| 2037 | 70,896,041 | 3,668,412 | 2.2038 | 8,084,447 | 70,558,163 | 3,650,929 | 1.7474 | 6,379,634 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 142,704,204 | 7,384,021 | 14,528,760 | |
| 2038 | 46,603,528 | 2,411,432 | 2.2926 | 5,528,448 | 42,782,149 | 2,213,700 | 1.7969 | 3,977,797 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 90,635,677 | 4,689,811 | 9,570,925 | |
| 2039 | 40,663,625 | 2,104,080 | 2.3850 | 5,018,231 | 77,452,618 | 4,007,673 | 1.8477 | 7,404,977 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 119,366,242 | 6,176,432 | 12,487,887 | |
| 2040 | 37,417,177 | 1,936,097 | 2.4811 | 4,803,651 | 14,193,501 | 734,422 | 1.9000 | 1,395,402 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 52,860,679 | 2,735,199 | 6,263,732 | |
| 2041 | 23,327,583 | 1,207,052 | 2.5811 | 3,115,521 | 13,070,130 | 676,295 | 1.9538 | 1,321,345 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 37,647,713 | 1,948,026 | 4,501,546 | |
| 2042 | 14,406,921 | 745,465 | 2.6851 | 2,001,648 | 15,753,640 | 815,149 | 2.0091 | 1,637,716 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 31,410,561 | 1,625,294 | 3,704,044 | |
| 2043 | 7,172,862 | 371,149 | 2.7933 | 1,036,731 | 7,649,042 | 395,789 | 2.0659 | 817,659 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 16,071,904 | 831,617 | 1,919,070 | |
| 2044 | 804,798 | 41,643 | 2.9059 | 121,011 | 514,011 | 26,597 | 2.1244 | 56,502 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 242,192 | |
| 2045 | 796,451 | 41,211 | 3.0230 | 124,581 | 505,298 | 26,146 | 2.1845 | 57,116 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 246,377 | |
| 2046 | 796,451 | 41,211 | 3.1448 | 129,601 | 505,298 | 26,146 | 2.2463 | 58,731 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 253,012 | |
| 2047 | 796,451 | 41,211 | 3.2716 | 134,827 | 505,298 | 26,146 | 2.3099 | 60,394 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 259,900 | |
| 2048 | 804,798 | 41,643 | 3.4034 | 141,728 | 514,011 | 26,597 | 2.3753 | 63,175 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 269,583 | |
| 2049 | 796,451 | 41,211 | 3.5406 | 145,912 | 505,298 | 26,146 | 2.4425 | 63,861 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 274,453 | |
| 2050 | 796,451 | 41,211 | 3.6833 | 151,793 | 505,298 | 26,146 | 2.5116 | 65,668 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 282,141 | |
| 2051 | 796,451 | 41,211 | 3.8317 | 157,909 | 505,298 | 26,146 | 2.5827 | 67,527 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,551,749 | 132,037 | 290,115 | |
| 2052 | 804,798 | 41,643 | 3.9861 | 165,994 | 514,011 | 26,597 | 2.6558 | 70,636 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,568,809 | 132,919 | 301,309 | |
| 2053 | 892,138 | 46,162 | 4.1468 | 191,426 | 792,358 | 40,999 | 2.7310 | 111,969 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,934,496 | 151,841 | 368,075 | |
| 2054 | 987,824 | 51,114 | 4.3139 | 220,499 | 1,079,416 | 55,853 | 2.8082 | 156,846 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 442,024 | |
| 2055 | 987,824 | 51,114 | 4.4877 | 229,382 | 1,079,416 | 55,853 | 2.8877 | 161,286 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 455,348 | |
| 2056 | 1,044,014 | 54,021 | 4.6686 | 252,202 | 1,231,659 | 63,730 | 2.9694 | 189,241 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,525,673 | 182,431 | 506,123 | |
| 2057 | 939,981 | 48,638 | 4.8567 | 236,220 | 935,887 | 48,426 | 3.0535 | 147,869 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 448,768 | |
| 2058 | 1,083,510 | 56,065 | 5.0525 | 283,267 | 1,366,475 | 70,706 | 3.1399 | 222,010 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,699,985 | 191,545 | 569,957 | |
| 2059 | 939,981 | 48,638 | 5.2561 | 255,646 | 935,887 | 48,426 | 3.2287 | 156,353 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 476,679 | |
| 2060 | 900,484 | 46,594 | 5.4679 | 254,773 | 801,070 | 41,450 | 3.3201 | 137,619 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,951,554 | 152,724 | 457,071 | |
| 2061 | 987,824 | 51,114 | 5.6882 | 290,744 | 1,079,416 | 55,853 | 3.4141 | 190,687 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 546,110 | |
| 2062 | 987,824 | 51,114 | 5.9175 | 302,464 | 1,079,416 | 55,853 | 3.5107 | 196,082 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 563,226 | |
| 2063 | 939,981 | 48,638 | 6.1560 | 299,415 | 935,887 | 48,426 | 3.6100 | 174,818 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 538,913 | |
| 2064 | 996,170 | 51,545 | 6.4040 | 330,097 | 1,088,129 | 56,304 | 3.7122 | 209,010 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 603,786 | |
| 2065 | 987,824 | 51,114 | 6.6621 | 340,523 | 1,079,416 | 55,853 | 3.8173 | 213,207 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 618,410 | |
| 2066 | 939,981 | 48,638 | 6.9306 | 337,090 | 935,887 | 48,426 | 3.9253 | 190,087 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 591,856 | |
| 2067 | 987,824 | 51,114 | 7.2099 | 368,523 | 1,079,416 | 55,853 | 4.0364 | 225,444 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 658,647 | |
| 2068 | 996,170 | 51,545 | 7.5005 | 386,616 | 1,088,129 | 56,304 | 4.1506 | 233,694 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 684,989 | |
| 2069 | 939,981 | 48,638 | 7.8027 | 379,507 | 935,887 | 48,426 | 4.2681 | 206,687 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,125,868 | 161,743 | 650,874 | |
| 2070 | 987,824 | 51,114 | 8.1172 | 414,899 | 1,079,416 | 55,853 | 4.3889 | 245,132 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 724,710 | |
| 2071 | 987,824 | 51,114 | 8.4443 | 431,618 | 1,079,416 | 55,853 | 4.5131 | 252,609 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 748,366 | |
| 2072 | 996,170 | 51,545 | 8.7846 | 452,805 | 1,088,129 | 56,304 | 4.6408 | 261,294 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 778,779 | |
| 2073 | 987,824 | 51,114 | 9.1386 | 467,106 | 1,079,416 | 55,853 | 4.7721 | 266,535 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 798,320 | |
| 2074 | 987,824 | 51,114 | 9.5069 | 485,931 | 1,079,416 | 55,853 | 4.9072 | 274,081 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,317,240 | 171,646 | 824,691 | |
| 2075 | 1,319,646 | 68,283 | 9.8901 | 675,327 | 2,074,884 | 107,362 | 5.0460 | 541,748 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 4,644,530 | 240,324 | 1,281,754 | |
| 2076 | 996,170 | 51,545 | 10.2886 | 530,330 | 1,088,129 | 56,304 | 5.1888 | 292,148 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,334,299 | 172,528 | 887,157 | |
| 2077 | 987,824 | 51,114 | 10.7033 | 547,083 | 1,272,675 | 658,575 | 5.3357 | 3,513,958 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 14,965,499 | 774,368 | 4,125,721 | |
| 2078 | (1,417,257) | (73,334) | 11.1346 | (816,543) | 3,195,063 | 165,324 | 5.4867 | 907,082 | 0 | - | 1.0000 | - | 1,777,806 | 91,990 | 90,539 | |
| | \$393,239,759 | \$20,347,618 | | \$52,138,540 | \$414,428,049 | \$21,443,975 | | \$44,179,991 | \$35,000,000 | \$2,845,895 | | \$2,845,895 | \$862,667,807 | \$44,637,488 | \$99,164,425 | |
| | \$1,401,640,794 | \$72,525,859 | | \$192,002,251 | \$1,399,017,995 | \$72,390,146 | | \$154,145,286 | \$111,250,000 | \$5,756,469 | | \$5,756,469 | \$2,911,908,789 | \$150,672,473 | \$351,904,006 | |

EXTERNAL FUND CALCULATION

Monticello

| | Beginning Balance | Assumed Interest | Decommissioning | | Annuity | Ending Balance |
|------|-------------------|------------------|-----------------|----|-----------|----------------|
| | | | Payment | | | |
| 2020 | \$48,017,552 | 1,125,228 | - | \$ | 138,256 | 49,281,037 |
| 2021 | 49,281,037 | 2,336,578 | - | | 1,291,695 | 52,909,310 |
| 2022 | 52,909,310 | 2,506,381 | - | | 1,291,695 | 56,707,387 |
| 2023 | 56,707,387 | 2,684,131 | - | | 1,291,695 | 60,683,214 |
| 2024 | 60,683,214 | 2,870,200 | - | | 1,291,695 | 64,845,109 |
| 2025 | 64,845,109 | 3,064,977 | - | | 1,291,695 | 69,201,781 |
| 2026 | 69,201,781 | 3,268,869 | - | | 1,291,695 | 73,762,345 |
| 2027 | 73,762,345 | 3,482,303 | - | | 1,291,695 | 78,536,344 |
| 2028 | 78,536,344 | 3,705,727 | - | | 1,291,695 | 83,533,766 |
| 2029 | 83,533,766 | 3,939,606 | - | | 1,291,695 | 88,765,067 |
| 2030 | 88,765,067 | 3,409,329 | (\$2,489,566) | | 968,771 | 90,653,602 |
| 2031 | 90,653,602 | 3,462,968 | (\$9,800,589) | | - | 84,315,980 |
| 2032 | 84,315,980 | 3,220,870 | (\$15,386,854) | | - | 72,149,996 |
| 2033 | 72,149,996 | 2,756,130 | (15,758,289) | | - | 59,147,837 |
| 2034 | 59,147,837 | 2,259,447 | (9,957,905) | | - | 51,449,379 |
| 2035 | 51,449,379 | 1,965,366 | (18,829,936) | | - | 34,584,809 |
| 2036 | 34,584,809 | 1,321,140 | (7,333,462) | | - | 28,572,487 |
| 2037 | 28,572,487 | 1,091,469 | (5,231,794) | | - | 24,432,162 |
| 2038 | 24,432,162 | 933,309 | (4,241,676) | | - | 21,123,795 |
| 2039 | 21,123,795 | 806,929 | (243,641) | | - | 21,687,083 |
| 2040 | 21,687,083 | 828,447 | (255,411) | | - | 22,260,119 |
| 2041 | 22,260,119 | 850,337 | (262,223) | | - | 22,848,233 |
| 2042 | 22,848,233 | 872,802 | (272,046) | | - | 23,448,989 |
| 2043 | 23,448,989 | 895,751 | (282,243) | | - | 24,062,497 |
| 2044 | 24,062,497 | 919,187 | (295,914) | | - | 24,685,770 |
| 2045 | 24,685,770 | 942,996 | (303,829) | | - | 25,324,938 |
| 2046 | 25,324,938 | 967,413 | (315,240) | | - | 25,977,111 |
| 2047 | 25,977,111 | 992,326 | (327,096) | | - | 26,642,341 |
| 2048 | 26,642,341 | 1,017,737 | (704,537) | | - | 26,955,541 |
| 2049 | 26,955,541 | 1,029,702 | (352,175) | | - | 27,633,068 |
| 2050 | 27,633,068 | 1,055,583 | (1,232,189) | | - | 27,456,461 |
| 2051 | 27,456,461 | 1,048,837 | (1,273,906) | | - | 27,231,392 |
| 2052 | 27,231,392 | 1,040,239 | (1,854,693) | | - | 26,416,939 |
| 2053 | 26,416,939 | 1,009,127 | (2,325,524) | | - | 25,100,542 |
| 2054 | 25,100,542 | 958,841 | (1,550,127) | | - | 24,509,256 |
| 2055 | 24,509,256 | 936,254 | (2,336,221) | | - | 23,109,288 |
| 2056 | 23,109,288 | 882,775 | (2,722,050) | | - | 21,270,013 |
| 2057 | 21,270,013 | 812,515 | (461,646) | | - | 21,620,882 |
| 2058 | 21,620,882 | 825,918 | (479,189) | | - | 21,967,611 |
| 2059 | 21,967,611 | 839,163 | (497,401) | | - | 22,309,372 |
| 2060 | 22,309,372 | 852,218 | (521,904) | | - | 22,639,686 |
| 2061 | 22,639,686 | 864,836 | (535,963) | | - | 22,968,559 |
| 2062 | 22,968,559 | 877,399 | (556,375) | | - | 23,289,583 |
| 2063 | 23,289,583 | 889,662 | (577,571) | | - | 23,601,674 |
| 2064 | 23,601,674 | 901,584 | (606,070) | | - | 23,897,188 |
| 2065 | 23,897,188 | 912,873 | (622,451) | | - | 24,187,610 |
| 2066 | 24,187,610 | 923,967 | (646,203) | | - | 24,465,373 |
| 2067 | 24,465,373 | 934,577 | (670,874) | | - | 24,729,076 |
| 2068 | 24,729,076 | 944,651 | (704,043) | | - | 24,969,684 |
| 2069 | 24,969,684 | 953,842 | (723,119) | | - | 25,200,407 |
| 2070 | 25,200,407 | 962,656 | (750,774) | | - | 25,412,288 |
| 2071 | 25,412,288 | 970,749 | (779,496) | | - | 25,603,541 |
| 2072 | 25,603,541 | 978,055 | (818,097) | | - | 25,763,500 |
| 2073 | 25,763,500 | 984,166 | (840,326) | | - | 25,907,340 |
| 2074 | 25,907,340 | 989,660 | (872,527) | | - | 26,024,473 |
| 2075 | 26,024,473 | 994,135 | (905,980) | | - | 26,112,628 |
| 2076 | 26,112,628 | 997,502 | (950,913) | | - | 26,159,218 |
| 2077 | 26,159,218 | 999,282 | (976,829) | | - | 26,181,671 |
| 2078 | 26,181,671 | 1,000,140 | (1,693,104) | | - | 25,488,707 |
| 2079 | 25,488,707 | 973,669 | (1,895,736) | | - | 24,566,639 |
| 2080 | 24,566,639 | 938,446 | (1,830,179) | | - | 23,674,906 |
| 2081 | 23,674,906 | 904,381 | (1,884,478) | | - | 22,694,810 |
| 2082 | 22,694,810 | 866,942 | (1,953,077) | | - | 21,608,675 |
| 2083 | 21,608,675 | 825,451 | (2,185,119) | | - | 20,249,007 |
| 2084 | 20,249,007 | 773,512 | (2,111,829) | | - | 18,910,690 |
| 2085 | 18,910,690 | 722,388 | (2,174,629) | | - | 17,458,449 |
| 2086 | 17,458,449 | 666,913 | (2,254,051) | | - | 15,871,311 |
| 2087 | 15,871,311 | 606,284 | (2,519,876) | | - | 13,957,720 |
| 2088 | 13,957,720 | 533,185 | (3,752,722) | | - | 10,738,183 |
| 2089 | 10,738,183 | 410,199 | (2,510,601) | | - | 8,637,780 |
| 2090 | 8,637,780 | 329,963 | (1,995,152) | | - | 6,972,591 |
| 2091 | 6,972,591 | 266,353 | (7,238,944) | | - | (0) |

External Levelized

EXTERNAL FUND CALCULATION

Prairie Island Unit 1

| | Beginning Balance | Assumed Interest | Decommissioning | | Ending Balance |
|------|-------------------|------------------|-----------------|---------|----------------|
| | | | Payment | Annuity | |
| 2020 | 31,883,878 | 744,489 | - | \$ - | 32,628,366 |
| 2021 | 32,628,366 | 1,542,621 | - | 808,393 | 34,979,380 |
| 2022 | 34,979,380 | 1,652,413 | - | 808,393 | 37,440,187 |
| 2023 | 37,440,187 | 1,767,333 | - | 808,393 | 40,015,913 |
| 2024 | 40,015,913 | 1,887,619 | - | 808,393 | 42,711,925 |
| 2025 | 42,711,925 | 2,013,523 | - | 808,393 | 45,533,841 |
| 2026 | 45,533,841 | 2,145,306 | - | 808,393 | 48,487,541 |
| 2027 | 48,487,541 | 2,283,244 | - | 808,393 | 51,579,179 |
| 2028 | 51,579,179 | 2,427,624 | - | 808,393 | 54,815,195 |
| 2029 | 54,815,195 | 2,578,746 | - | 808,393 | 58,202,334 |
| 2030 | 58,202,334 | 2,736,925 | - | 808,393 | 61,747,653 |
| 2031 | 61,747,653 | 2,902,491 | - | 808,393 | 65,458,537 |
| 2032 | 65,458,537 | 3,075,790 | - | 808,393 | 69,342,720 |
| 2033 | 69,342,720 | 2,457,358 | (\$3,024,974) | 541,624 | 69,316,728 |
| 2034 | 69,316,728 | 2,446,880 | (\$9,282,044) | - | 62,481,564 |
| 2035 | 62,481,564 | 2,205,599 | (\$13,953,144) | - | 50,734,019 |
| 2036 | 50,734,019 | 1,790,911 | (12,163,507) | - | 40,361,423 |
| 2037 | 40,361,423 | 1,424,758 | (7,746,004) | - | 34,040,177 |
| 2038 | 34,040,177 | 1,201,618 | (3,397,586) | - | 31,844,210 |
| 2039 | 31,844,210 | 1,124,101 | (11,823,480) | - | 21,144,831 |
| 2040 | 21,144,831 | 746,413 | (5,476,550) | - | 16,414,693 |
| 2041 | 16,414,693 | 579,439 | (3,188,915) | - | 13,805,217 |
| 2042 | 13,805,217 | 487,324 | (2,870,740) | - | 11,421,801 |
| 2043 | 11,421,801 | 403,190 | (1,516,168) | - | 10,308,822 |
| 2044 | 10,308,822 | 363,901 | (242,192) | - | 10,430,531 |
| 2045 | 10,430,531 | 368,198 | (246,377) | - | 10,552,353 |
| 2046 | 10,552,353 | 372,498 | (253,012) | - | 10,671,839 |
| 2047 | 10,671,839 | 376,716 | (259,900) | - | 10,788,654 |
| 2048 | 10,788,654 | 380,839 | (269,583) | - | 10,899,911 |
| 2049 | 10,899,911 | 384,767 | (274,453) | - | 11,010,225 |
| 2050 | 11,010,225 | 388,661 | (282,141) | - | 11,116,745 |
| 2051 | 11,116,745 | 392,421 | (290,115) | - | 11,219,051 |
| 2052 | 11,219,051 | 396,032 | (301,309) | - | 11,313,775 |
| 2053 | 11,313,775 | 399,376 | (368,075) | - | 11,345,076 |
| 2054 | 11,345,076 | 400,481 | (442,024) | - | 11,303,534 |
| 2055 | 11,303,534 | 399,015 | (455,348) | - | 11,247,201 |
| 2056 | 11,247,201 | 397,026 | (506,123) | - | 11,138,104 |
| 2057 | 11,138,104 | 393,175 | (448,768) | - | 11,082,511 |
| 2058 | 11,082,511 | 391,213 | (569,957) | - | 10,903,767 |
| 2059 | 10,903,767 | 384,903 | (476,679) | - | 10,811,991 |
| 2060 | 10,811,991 | 381,663 | (457,071) | - | 10,736,584 |
| 2061 | 10,736,584 | 379,001 | (546,110) | - | 10,569,475 |
| 2062 | 10,569,475 | 373,102 | (563,226) | - | 10,379,351 |
| 2063 | 10,379,351 | 366,391 | (538,913) | - | 10,206,830 |
| 2064 | 10,206,830 | 360,301 | (603,786) | - | 9,963,345 |
| 2065 | 9,963,345 | 351,706 | (618,410) | - | 9,696,641 |
| 2066 | 9,696,641 | 342,291 | (591,856) | - | 9,447,076 |
| 2067 | 9,447,076 | 333,482 | (658,647) | - | 9,121,911 |
| 2068 | 9,121,911 | 322,003 | (684,989) | - | 8,758,925 |
| 2069 | 8,758,925 | 309,190 | (650,874) | - | 8,417,241 |
| 2070 | 8,417,241 | 297,129 | (724,710) | - | 7,989,659 |
| 2071 | 7,989,659 | 282,035 | (748,366) | - | 7,523,328 |
| 2072 | 7,523,328 | 265,573 | (778,779) | - | 7,010,123 |
| 2073 | 7,010,123 | 247,457 | (798,320) | - | 6,459,260 |
| 2074 | 6,459,260 | 228,012 | (824,691) | - | 5,862,580 |
| 2075 | 5,862,580 | 206,949 | (1,281,754) | - | 4,787,775 |
| 2076 | 4,787,775 | 169,008 | (887,157) | - | 4,069,626 |
| 2077 | 4,069,626 | 143,658 | (4,125,832) | - | 87,452 |
| 2078 | 87,452 | 3,087 | (90,539) | - | (0) |

External Levelized

EXTERNAL FUND CALCULATION

Prairie Island Unit 2

| | Beginning Balance | Assumed Interest | Decommissioning | | Annuity | Ending Balance |
|------|-------------------|------------------|-----------------|------|---------|----------------|
| | | | Payment | | | |
| 2020 | 34,101,997 | 806,512 | - | \$ - | - | 34,908,509 |
| 2021 | 34,908,509 | 1,663,320 | - | - | 513,637 | 37,085,466 |
| 2022 | 37,085,466 | 1,766,290 | - | - | 513,637 | 39,365,393 |
| 2023 | 39,365,393 | 1,874,131 | - | - | 513,637 | 41,753,160 |
| 2024 | 41,753,160 | 1,987,072 | - | - | 513,637 | 44,253,869 |
| 2025 | 44,253,869 | 2,105,356 | - | - | 513,637 | 46,872,862 |
| 2026 | 46,872,862 | 2,229,234 | - | - | 513,637 | 49,615,733 |
| 2027 | 49,615,733 | 2,358,972 | - | - | 513,637 | 52,488,341 |
| 2028 | 52,488,341 | 2,494,846 | - | - | 513,637 | 55,496,824 |
| 2029 | 55,496,824 | 2,637,147 | - | - | 513,637 | 58,647,609 |
| 2030 | 58,647,609 | 2,786,179 | - | - | 513,637 | 61,947,425 |
| 2031 | 61,947,425 | 2,942,261 | - | - | 513,637 | 65,403,323 |
| 2032 | 65,403,323 | 3,105,725 | - | - | 513,637 | 69,022,685 |
| 2033 | 69,022,685 | 3,276,920 | - | - | 513,637 | 72,813,242 |
| 2034 | 72,813,242 | 2,512,108 | (\$1,223,206) | - | 426,319 | 74,528,463 |
| 2035 | 74,528,463 | 2,563,779 | (\$8,052,082) | - | - | 69,040,160 |
| 2036 | 69,040,160 | 2,374,982 | (\$15,053,198) | - | - | 56,361,944 |
| 2037 | 56,361,944 | 1,938,851 | (14,528,760) | - | - | 43,772,035 |
| 2038 | 43,772,035 | 1,505,758 | (9,570,925) | - | - | 35,706,868 |
| 2039 | 35,706,868 | 1,228,316 | (12,487,887) | - | - | 24,447,297 |
| 2040 | 24,447,297 | 840,987 | (6,263,732) | - | - | 19,024,552 |
| 2041 | 19,024,552 | 654,445 | (4,501,546) | - | - | 15,177,451 |
| 2042 | 15,177,451 | 522,104 | (3,704,044) | - | - | 11,995,512 |
| 2043 | 11,995,512 | 412,646 | (1,919,070) | - | - | 10,489,087 |
| 2044 | 10,489,087 | 360,825 | (242,192) | - | - | 10,607,719 |
| 2045 | 10,607,719 | 364,906 | (246,377) | - | - | 10,726,248 |
| 2046 | 10,726,248 | 368,983 | (253,012) | - | - | 10,842,219 |
| 2047 | 10,842,219 | 372,972 | (259,900) | - | - | 10,955,291 |
| 2048 | 10,955,291 | 376,862 | (269,583) | - | - | 11,062,571 |
| 2049 | 11,062,571 | 380,552 | (274,453) | - | - | 11,168,670 |
| 2050 | 11,168,670 | 384,202 | (282,141) | - | - | 11,270,732 |
| 2051 | 11,270,732 | 387,713 | (290,115) | - | - | 11,368,329 |
| 2052 | 11,368,329 | 391,071 | (301,309) | - | - | 11,458,091 |
| 2053 | 11,458,091 | 394,158 | (368,075) | - | - | 11,484,175 |
| 2054 | 11,484,175 | 395,056 | (442,024) | - | - | 11,437,207 |
| 2055 | 11,437,207 | 393,440 | (455,348) | - | - | 11,375,299 |
| 2056 | 11,375,299 | 391,310 | (506,123) | - | - | 11,260,486 |
| 2057 | 11,260,486 | 387,361 | (448,768) | - | - | 11,199,079 |
| 2058 | 11,199,079 | 385,248 | (569,957) | - | - | 11,014,371 |
| 2059 | 11,014,371 | 378,894 | (476,679) | - | - | 10,916,586 |
| 2060 | 10,916,586 | 375,531 | (457,071) | - | - | 10,835,046 |
| 2061 | 10,835,046 | 372,726 | (546,110) | - | - | 10,661,661 |
| 2062 | 10,661,661 | 366,761 | (563,226) | - | - | 10,465,197 |
| 2063 | 10,465,197 | 360,003 | (538,913) | - | - | 10,286,287 |
| 2064 | 10,286,287 | 353,848 | (603,786) | - | - | 10,036,349 |
| 2065 | 10,036,349 | 345,250 | (618,410) | - | - | 9,763,189 |
| 2066 | 9,763,189 | 335,854 | (591,856) | - | - | 9,507,187 |
| 2067 | 9,507,187 | 327,047 | (658,647) | - | - | 9,175,587 |
| 2068 | 9,175,587 | 315,640 | (684,989) | - | - | 8,806,238 |
| 2069 | 8,806,238 | 302,935 | (650,874) | - | - | 8,458,298 |
| 2070 | 8,458,298 | 290,965 | (724,710) | - | - | 8,024,553 |
| 2071 | 8,024,553 | 276,045 | (748,366) | - | - | 7,552,232 |
| 2072 | 7,552,232 | 259,797 | (778,779) | - | - | 7,033,250 |
| 2073 | 7,033,250 | 241,944 | (798,320) | - | - | 6,476,873 |
| 2074 | 6,476,873 | 222,804 | (824,691) | - | - | 5,874,986 |
| 2075 | 5,874,986 | 202,100 | (1,281,754) | - | - | 4,795,331 |
| 2076 | 4,795,331 | 164,959 | (887,157) | - | - | 4,073,133 |
| 2077 | 4,073,133 | 140,116 | (4,125,721) | - | - | 87,528 |
| 2078 | 87,528 | 3,011 | (90,539) | - | - | 0 |

External Levelized

2021 SUMMARY

| | Operational Earnings Rate | Post-Shutdown Earnings Rate | Market Value Balance 6/30/2020 | Book Value 6/30/2020 | Unrealized Gain/Loss 6/30/2020 | Tax-Effect Adjustment | Tax-Adjusted Fund Balance 6/30/2020 | 2021 Proforma Decommissioning Accrual |
|--------------------------------------|---------------------------------|-----------------------------------|--------------------------------------|-------------------------|--------------------------------------|--------------------------|---|---|
| Monticello | 4.68% | 3.82% | \$51,901,470 | \$37,950,615 | \$13,950,856 | \$3,883,918 | \$48,017,552 | \$ 857,464 |
| Prairie Island Unit 1 | 4.67% | 3.53% | \$34,423,105 | \$25,302,319 | 9,120,786 | 2,539,227 | 31,883,878 | 655,843 |
| Prairie Island Unit 2 | 4.73% | 3.44% | \$36,919,829 | \$26,798,304 | 10,121,526 | 2,817,833 | 34,101,997 | 372,971 |
| TOTAL DECOMMISSIONING ACCRUAL | | | \$123,244,404 | \$90,051,237 | \$33,193,167 | \$9,240,978 | \$114,003,426 | \$1,886,277 |

INPUT DATA

| | |
|------------------------------------|---------|
| Escalation Rate (Labor) | 4.03% |
| Escalation Rate (Non-Labor) | 2.83% |
| Escalation Rate (PIIC) | 0.00% |
| Jurisdictional Factor | 5.1744% |
| Tax Rate for tax-effect adjustment | 27.84% |

AMOUNT TO RECOVER

| | LABOR | | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | |
|------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | |
| | | | | | | | | | | | | | | | | |
| Monticello | | | | | | | | | | | | | | | | |
| Factors | 2017 | 5.1744% | 4.03% | | | | 2.83% | | | | | 0.00% | | | | |
| 2030 | \$21,105,620 | \$1,091,976 | 1.6713 | \$1,825,020 | \$8,935,561 | \$462,358 | 1.4373 | \$664,547 | \$0 | \$0 | 1.0000 | \$0 | \$30,039,182 | \$1,554,334 | \$2,489,566 | |
| 2031 | 72,416,242 | 3,747,073 | 1.7387 | 6,515,035 | 42,961,353 | 2,222,973 | 1.4780 | 3,285,553 | 0 | 0 | 1.0000 | 0 | 115,377,595 | 5,970,045 | 9,800,589 | |
| 2032 | 78,476,357 | 4,060,645 | 1.8088 | 7,344,894 | 102,263,189 | 5,291,460 | 1.5198 | 8,041,960 | 0 | 0 | 1.0000 | 0 | 180,739,546 | 9,352,104 | 15,386,854 | |
| 2033 | 78,663,227 | 4,070,314 | 1.8816 | 7,658,703 | 100,155,666 | 5,182,409 | 1.5629 | 8,099,587 | 0 | 0 | 1.0000 | 0 | 178,818,892 | 9,252,723 | 15,758,289 | |
| 2034 | 66,380,423 | 3,434,758 | 1.9575 | 6,723,539 | 38,894,671 | 2,012,548 | 1.6071 | 3,234,366 | 0 | 0 | 1.0000 | 0 | 105,275,094 | 5,447,306 | 9,957,905 | |
| 2035 | 86,879,803 | 4,495,469 | 2.0364 | 9,154,572 | 113,147,091 | 5,854,631 | 1.6526 | 9,675,364 | 0 | 0 | 1.0000 | 0 | 200,026,894 | 10,350,100 | 18,829,936 | |
| 2036 | 50,307,504 | 2,603,088 | 2.1184 | 5,514,383 | 20,688,337 | 1,070,488 | 1.6993 | 1,819,080 | 0 | 0 | 1.0000 | 0 | 70,995,841 | 3,673,576 | 7,333,462 | |
| 2037 | 34,623,126 | 1,791,523 | 2.2038 | 3,948,159 | 14,196,883 | 734,597 | 1.7474 | 1,283,635 | 0 | 0 | 1.0000 | 0 | 48,820,010 | 2,526,120 | 5,231,794 | |
| 2038 | 24,271,478 | 1,255,892 | 2.2926 | 2,879,259 | 13,208,979 | 683,479 | 1.7969 | 1,228,144 | 0 | 0 | 1.0000 | 0 | 37,480,457 | 1,939,372 | 4,107,403 | |
| 2039 | 615,016 | 31,823 | 2.3850 | 75,898 | 297,162 | 15,376 | 1.8477 | 28,411 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 104,309 | |
| 2040 | 631,203 | 32,661 | 2.4811 | 81,034 | 303,018 | 15,679 | 1.9000 | 29,791 | 0 | 0 | 1.0000 | 0 | 934,221 | 48,340 | 110,825 | |
| 2041 | 615,016 | 31,823 | 2.5811 | 82,139 | 297,162 | 15,376 | 1.9538 | 30,042 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 112,181 | |
| 2042 | 615,016 | 31,823 | 2.6851 | 85,448 | 297,162 | 15,376 | 2.0091 | 30,892 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 116,341 | |
| 2043 | 615,016 | 31,823 | 2.7933 | 88,891 | 297,162 | 15,376 | 2.0659 | 31,766 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 120,657 | |
| 2044 | 631,203 | 32,661 | 2.9059 | 94,909 | 303,018 | 15,679 | 2.1244 | 33,309 | 0 | 0 | 1.0000 | 0 | 934,221 | 48,340 | 128,218 | |
| 2045 | 615,016 | 31,823 | 3.0230 | 96,201 | 297,162 | 15,376 | 2.1845 | 33,589 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 129,791 | |
| 2046 | 615,016 | 31,823 | 3.1448 | 100,077 | 297,162 | 15,376 | 2.2463 | 34,540 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 134,617 | |
| 2047 | 615,016 | 31,823 | 3.2716 | 104,112 | 297,162 | 15,376 | 2.3099 | 35,518 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 139,630 | |
| 2048 | 1,294,848 | 67,000 | 3.4034 | 228,028 | 2,293,953 | 118,697 | 2.3753 | 281,942 | 0 | 0 | 1.0000 | 0 | 3,588,801 | 185,697 | 509,969 | |
| 2049 | 615,016 | 31,823 | 3.5406 | 112,673 | 297,162 | 15,376 | 2.4425 | 37,556 | 0 | 0 | 1.0000 | 0 | 912,178 | 47,199 | 150,229 | |
| 2050 | 2,108,217 | 109,087 | 3.6833 | 401,799 | 4,776,766 | 247,167 | 2.5116 | 620,784 | 0 | 0 | 1.0000 | 0 | 6,884,983 | 356,253 | 1,022,583 | |
| 2051 | 2,108,217 | 109,087 | 3.8317 | 417,987 | 4,776,766 | 247,167 | 2.5827 | 638,358 | 0 | 0 | 1.0000 | 0 | 6,884,983 | 356,253 | 1,056,345 | |
| 2052 | 2,986,904 | 154,553 | 3.9861 | 616,064 | 7,370,122 | 381,356 | 2.6558 | 1,012,806 | 0 | 0 | 1.0000 | 0 | 10,357,026 | 535,909 | 1,628,870 | |
| 2053 | 3,617,592 | 187,187 | 4.1468 | 776,227 | 9,304,891 | 481,468 | 2.7310 | 1,314,889 | 0 | 0 | 1.0000 | 0 | 12,922,483 | 668,655 | 2,091,116 | |
| 2054 | 2,323,842 | 120,244 | 4.3139 | 518,720 | 5,423,641 | 280,638 | 2.8082 | 788,889 | 0 | 0 | 1.0000 | 0 | 7,747,483 | 400,882 | 1,306,809 | |
| 2055 | 3,401,967 | 176,030 | 4.4877 | 789,969 | 8,658,016 | 447,996 | 2.8877 | 1,293,679 | 0 | 0 | 1.0000 | 0 | 12,059,983 | 624,026 | 2,083,648 | |
| 2056 | 3,849,404 | 199,182 | 4.6686 | 929,900 | 9,957,622 | 515,243 | 2.9694 | 1,529,962 | 0 | 0 | 1.0000 | 0 | 13,807,026 | 714,424 | 2,459,862 | |
| 2057 | 598,425 | 30,965 | 4.8567 | 150,386 | 247,389 | 12,801 | 3.0535 | 39,087 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 189,473 | |
| 2058 | 598,425 | 30,965 | 5.0525 | 156,449 | 247,389 | 12,801 | 3.1399 | 40,193 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 196,642 | |
| 2059 | 598,425 | 30,965 | 5.2561 | 162,753 | 247,389 | 12,801 | 3.2287 | 41,330 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 204,083 | |
| 2060 | 614,612 | 31,802 | 5.4679 | 173,891 | 253,245 | 13,104 | 3.3201 | 43,506 | 0 | 0 | 1.0000 | 0 | 867,857 | 44,906 | 217,397 | |
| 2061 | 598,425 | 30,965 | 5.6882 | 176,133 | 247,389 | 12,801 | 3.4141 | 43,703 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 219,836 | |
| 2062 | 598,425 | 30,965 | 5.9175 | 183,233 | 247,389 | 12,801 | 3.5107 | 44,940 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 228,173 | |
| 2063 | 598,425 | 30,965 | 6.1560 | 190,618 | 247,389 | 12,801 | 3.6100 | 46,211 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 236,829 | |
| 2064 | 614,612 | 31,802 | 6.4040 | 203,661 | 253,245 | 13,104 | 3.7122 | 48,644 | 0 | 0 | 1.0000 | 0 | 867,857 | 44,906 | 252,305 | |
| 2065 | 598,425 | 30,965 | 6.6621 | 206,289 | 247,389 | 12,801 | 3.8173 | 48,865 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 255,154 | |
| 2066 | 598,425 | 30,965 | 6.9306 | 214,603 | 247,389 | 12,801 | 3.9253 | 50,247 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 264,850 | |
| 2067 | 598,425 | 30,965 | 7.2099 | 223,252 | 247,389 | 12,801 | 4.0364 | 51,669 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 274,921 | |
| 2068 | 614,612 | 31,802 | 7.5005 | 238,532 | 253,245 | 13,104 | 4.1506 | 54,389 | 0 | 0 | 1.0000 | 0 | 867,857 | 44,906 | 292,921 | |
| 2069 | 598,425 | 30,965 | 7.8027 | 241,608 | 247,389 | 12,801 | 4.2681 | 54,635 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 296,243 | |
| 2070 | 598,425 | 30,965 | 8.1172 | 251,346 | 247,389 | 12,801 | 4.3889 | 56,181 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 307,528 | |
| 2071 | 598,425 | 30,965 | 8.4443 | 261,475 | 247,389 | 12,801 | 4.5131 | 57,771 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 319,246 | |
| 2072 | 614,612 | 31,802 | 8.7846 | 279,370 | 253,245 | 13,104 | 4.6408 | 60,812 | 0 | 0 | 1.0000 | 0 | 867,857 | 44,906 | 340,182 | |
| 2073 | 598,425 | 30,965 | 9.1386 | 282,973 | 247,389 | 12,801 | 4.7721 | 61,087 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 344,060 | |
| 2074 | 598,425 | 30,965 | 9.5069 | 294,378 | 247,389 | 12,801 | 4.9072 | 62,816 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 357,194 | |
| 2075 | 598,425 | 30,965 | 9.8901 | 306,243 | 247,389 | 12,801 | 5.0460 | 64,593 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 370,836 | |
| 2076 | 614,612 | 31,802 | 10.2886 | 327,200 | 253,245 | 13,104 | 5.1888 | 67,993 | 0 | 0 | 1.0000 | 0 | 867,857 | 44,906 | 395,193 | |
| 2077 | 598,425 | 30,965 | 10.7033 | 331,424 | 247,389 | 12,801 | 5.3357 | 68,301 | 0 | 0 | 1.0000 | 0 | 845,814 | 43,765 | 399,725 | |
| 2078 | 1,076,857 | 55,720 | 11.1346 | 620,424 | 1,667,353 | 86,275 | 5.4867 | 473,364 | 0 | 0 | 1.0000 | 0 | 2,744,210 | 141,995 | 1,093,788 | |
| 2079 | 1,172,543 | 60,672 | 11.5833 | 702,777 | 1,954,412 | 101,128 | 5.6420 | 570,565 | 0 | 0 | 1.0000 | 0 | 3,126,955 | 161,800 | 1,273,342 | |
| 2080 | 1,093,045 | 56,558 | 12.0501 | 681,530 | 1,673,167 | 86,576 | 5.8016 | 502,277 | 0 | 0 | 1.0000 | 0 | 2,766,212 | 143,134 | 1,183,807 | |
| 2081 | 1,076,857 | 55,720 | 12.5357 | 698,494 | 1,667,353 | 86,275 | 5.9658 | 514,698 | 0 | 0 | 1.0000 | 0 | 2,744,210 | 141,995 | 1,213,192 | |
| 2082 | 1,076,857 | 55,720 | 13.0409 | 726,644 | 1,667,353 | 86,275 | 6.1346 | 529,261 | 0 | 0 | 1.0000 | 0 | 2,744,210 | 141,995 | 1,255,905 | |
| 2083 | 1,172,543 | 60,672 | 13.5665 | 823,100 | 1,954,412 | 101,128 | 6.3083 | 637,947 | 0 | 0 | 1.0000 | 0 | 3,126,955 | 161,800 | 1,461,047 | |
| 2084 | 1,093,045 | 56,558 | 14.1132 | 798,215 | 1,673,167 | 86,576 | 6.4868 | 561,598 | 0 | 0 | 1.0000 | 0 | 2,766,212 | 143,134 | 1,359,813 | |
| 2085 | 1,076,857 | 55,720 | 14.6820 | 818,087 | 1,667,353 | 86,275 | 6.6704 | 575,487 | 0 | 0 | 1.0000 | 0 | 2,744,210 | 141,995 | 1,393,574 | |
| 2086 | 1,076,857 | 55,720 | 15.2737 | 851,057 | 1,667,353 | 86,275 | 6.8591 | 591,767 | 0 | 0 | 1.0000 | 0 | 2,744,210 | 141,995 | 1,442,824 | |
| 2087 | 1,172,543 | 60,672 | 15.8892 | 964,022 | 1,954,412 | 101,128 | 7.0532 | 713,277 | 0 | 0 | 1.0000 | 0 | 3,126,955 | 161,800 | 1,677,299 | |
| 2088 | 1,756,689 | 90,897 | 16.5295 | 1,502,487 | 3,664,101 | 189,594 | 7.2528 | 1,375,084 | 0 | 0 | 1.0000 | 0 | 5,420,790 | 280,491 | 2,877,571 | |
| 2089 | 1,076,857 | 55,720 | 17.1957 | 958,151 | 1,667,353 | 86,275 | 7.4581 | 643,446 | 0 | 0 | | | | | | |

AMOUNT TO RECOVER

| | LABOR | | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | |
|------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | |
| | | | | | | | | | | | | | | | | |
| Prairie Island Unit 1 | | | | | | | | | | | | | | | | |
| <i>Years</i> | <i>2017</i> | <i>5.1744%</i> | <i>4.03%</i> | | | | | <i>2.83%</i> | | | | | <i>0.00%</i> | | | |
| 2033 | \$22,324,352 | \$1,155,141 | 1.8816 | \$2,173,513 | \$9,728,959 | \$503,411 | 1.5629 | \$786,781 | \$1,250,000 | \$64,679 | 1.0000 | \$64,679 | \$33,303,311 | \$1,723,231 | \$3,024,974 | |
| 2034 | 63,382,247 | 3,289,971 | 1.9575 | 6,440,117 | 33,397,619 | 1,728,111 | 1.6071 | 2,777,247 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 98,229,866 | 5,082,761 | 9,282,044 | |
| 2035 | 65,877,290 | 3,408,724 | 2.0364 | 6,941,526 | 81,239,936 | 4,203,642 | 1.6526 | 6,946,939 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 148,367,226 | 7,677,046 | 13,953,144 | |
| 2036 | 57,759,315 | 2,988,672 | 2.1184 | 6,331,202 | 65,595,019 | 3,394,119 | 1.6993 | 5,767,626 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 124,604,334 | 6,447,470 | 12,163,507 | |
| 2037 | 58,110,947 | 1,971,995 | 2.2038 | 4,345,883 | 36,889,671 | 1,908,802 | 1.7474 | 3,335,441 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 76,250,618 | 3,945,477 | 7,746,004 | |
| 2038 | 13,207,914 | 683,424 | 2.2926 | 1,566,818 | 18,994,691 | 982,853 | 1.7969 | 1,766,088 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 33,452,605 | 1,730,956 | 3,397,586 | |
| 2039 | 36,035,855 | 1,864,623 | 2.3850 | 4,447,125 | 76,476,728 | 3,957,177 | 1.8477 | 7,311,675 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 113,762,582 | 5,886,479 | 11,823,480 | |
| 2040 | 31,919,556 | 1,651,631 | 2.4811 | 4,097,861 | 13,365,606 | 691,584 | 1.9000 | 1,314,009 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 46,535,162 | 2,407,894 | 5,476,550 | |
| 2041 | 16,871,318 | 872,982 | 2.5811 | 2,253,253 | 7,735,873 | 400,281 | 1.9538 | 782,070 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 25,857,191 | 1,337,943 | 3,103,800 | |
| 2042 | 12,081,952 | 625,163 | 2.6851 | 1,678,625 | 9,958,700 | 515,298 | 2.0091 | 1,035,286 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 23,290,652 | 1,205,141 | 2,778,591 | |
| 2043 | 5,844,452 | 302,413 | 2.7933 | 844,729 | 4,782,672 | 247,472 | 2.0659 | 511,253 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 11,877,125 | 614,564 | 1,420,662 | |
| 2044 | 354,798 | 18,359 | 2.9059 | 53,348 | 229,011 | 11,850 | 2.1244 | 25,174 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 143,201 | |
| 2045 | 346,451 | 17,927 | 3.0230 | 54,192 | 220,298 | 11,399 | 2.1845 | 24,901 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 143,773 | |
| 2046 | 346,451 | 17,927 | 3.1448 | 56,376 | 220,298 | 11,399 | 2.2463 | 25,606 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 146,661 | |
| 2047 | 346,451 | 17,927 | 3.2716 | 58,649 | 220,298 | 11,399 | 2.3099 | 26,330 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 149,659 | |
| 2048 | 354,798 | 18,359 | 3.4034 | 62,481 | 229,011 | 11,850 | 2.3753 | 28,147 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 155,308 | |
| 2049 | 346,451 | 17,927 | 3.5406 | 63,471 | 220,298 | 11,399 | 2.4425 | 27,842 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 155,992 | |
| 2050 | 346,451 | 17,927 | 3.6833 | 66,029 | 220,298 | 11,399 | 2.5116 | 28,630 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 159,338 | |
| 2051 | 346,451 | 17,927 | 3.8317 | 68,689 | 220,298 | 11,399 | 2.5827 | 29,440 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 162,809 | |
| 2052 | 354,798 | 18,359 | 3.9861 | 73,179 | 229,011 | 11,850 | 2.6558 | 31,471 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 169,329 | |
| 2053 | 442,138 | 22,878 | 4.1468 | 94,870 | 507,357 | 26,252 | 2.7310 | 71,695 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,199,495 | 113,810 | 231,244 | |
| 2054 | 537,824 | 27,829 | 4.3139 | 120,051 | 794,416 | 41,106 | 2.8082 | 115,434 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 300,164 | |
| 2055 | 537,824 | 27,829 | 4.4877 | 124,888 | 794,416 | 41,106 | 2.8877 | 118,701 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 308,269 | |
| 2056 | 594,014 | 30,736 | 4.6686 | 143,496 | 946,659 | 48,983 | 2.9694 | 145,452 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,790,673 | 144,399 | 353,627 | |
| 2057 | 489,981 | 25,353 | 4.8567 | 123,134 | 650,887 | 33,679 | 3.0535 | 102,839 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 309,652 | |
| 2058 | 633,510 | 32,780 | 5.0525 | 165,621 | 1,081,475 | 55,959 | 3.1399 | 175,707 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,964,985 | 153,419 | 406,007 | |
| 2059 | 489,981 | 25,353 | 5.2561 | 133,260 | 650,887 | 33,679 | 3.2287 | 108,740 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 306,679 | |
| 2060 | 450,484 | 23,310 | 5.4679 | 127,455 | 516,070 | 26,703 | 3.3201 | 88,658 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,216,554 | 114,692 | 280,792 | |
| 2061 | 537,824 | 27,829 | 5.6882 | 158,296 | 794,416 | 41,106 | 3.4141 | 140,340 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 363,315 | |
| 2062 | 537,824 | 27,829 | 5.9175 | 164,678 | 794,416 | 41,106 | 3.5107 | 144,310 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 373,667 | |
| 2063 | 489,981 | 25,353 | 6.1560 | 156,075 | 650,887 | 33,679 | 3.6100 | 121,582 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 342,336 | |
| 2064 | 546,170 | 28,261 | 6.4040 | 180,982 | 803,129 | 41,557 | 3.7122 | 154,267 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 399,928 | |
| 2065 | 537,824 | 27,829 | 6.6621 | 185,399 | 794,416 | 41,106 | 3.8173 | 156,913 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 406,992 | |
| 2066 | 489,981 | 25,353 | 6.9306 | 175,714 | 650,887 | 33,679 | 3.9253 | 132,201 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 372,594 | |
| 2067 | 537,824 | 27,829 | 7.2099 | 200,644 | 794,416 | 41,106 | 4.0364 | 165,920 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 431,243 | |
| 2068 | 546,170 | 28,261 | 7.5005 | 211,970 | 803,129 | 41,557 | 4.1506 | 172,485 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 449,135 | |
| 2069 | 489,981 | 25,353 | 7.8027 | 197,825 | 650,887 | 33,679 | 4.2681 | 143,746 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 406,250 | |
| 2070 | 537,824 | 27,829 | 8.1172 | 225,893 | 794,416 | 41,106 | 4.3889 | 180,410 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 470,982 | |
| 2071 | 537,824 | 27,829 | 8.4443 | 234,996 | 794,416 | 41,106 | 4.5131 | 185,515 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 485,190 | |
| 2072 | 546,170 | 28,261 | 8.7846 | 248,260 | 803,129 | 41,557 | 4.6408 | 192,856 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 505,795 | |
| 2073 | 537,824 | 27,829 | 9.1386 | 254,317 | 794,416 | 41,106 | 4.7721 | 196,161 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 515,158 | |
| 2074 | 537,824 | 27,829 | 9.5069 | 264,567 | 794,416 | 41,106 | 4.9072 | 201,715 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 530,961 | |
| 2075 | 869,646 | 44,999 | 9.8901 | 445,040 | 1,789,884 | 92,615 | 5.0460 | 467,335 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,909,530 | 202,293 | 977,055 | |
| 2076 | 546,170 | 28,261 | 10.2886 | 290,764 | 803,129 | 41,557 | 5.1888 | 215,630 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 571,073 | |
| 2077 | 537,974 | 27,837 | 10.7033 | 297,944 | 12,442,775 | 643,833 | 5.3357 | 3,435,301 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 14,230,749 | 736,349 | 3,797,925 | |
| 2078 | (1,867,257) | (96,618) | 11.1346 | (1,075,808) | 2,910,063 | 150,577 | 5.4867 | 826,171 | 0 | 1.0000 | 0 | 0 | 1,942,806 | 53,958 | (249,638) | |
| | \$378,431,633 | \$19,581,393 | | \$45,527,398 | \$394,779,673 | \$20,427,298 | | \$40,742,038 | \$56,250,000 | \$2,910,574 | | \$2,910,574 | \$829,461,305 | \$42,919,265 | \$89,180,009 | |

AMOUNT TO RECOVER

| | LABOR | | | | NON-LABOR | | | | PHIC Payment | | | | Total Cost Estimate Nominal \$ | Total Jurisdictional Cost in Nominal \$ | Total Jurisdictional Cost in Future \$'s | |
|------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------|-----------------------------------|-------------------|------------------------------------|--------------------------------|---|--|--|
| | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | Cost Estimate Nominal \$ | Jurisdictional Cost in Nominal \$ | Escalation Factor | Jurisdictional Cost in Future \$'s | | | | |
| | | | | | | | | | | | | | | | | |
| Prairie Island Unit 2 | | | | | | | | | | | | | | | | |
| <i>Values</i> | <i>2017</i> | <i>5.1744%</i> | <i>4.03%</i> | | | | <i>2.83%</i> | | | | | <i>0.00%</i> | | | | |
| 2034 | \$7,760,265 | \$401,544 | 1.9575 | \$786,022 | \$4,479,535 | \$231,787 | 1.6071 | \$372,505 | \$1,250,000 | \$64,679 | 1.0000 | \$64,679 | \$13,489,800 | \$698,010 | \$1,223,206 | |
| 2035 | 46,911,429 | 2,427,363 | 2.0364 | 4,943,083 | 35,601,339 | 1,842,139 | 1.6526 | 3,044,319 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 83,762,768 | 4,334,182 | 8,052,082 | |
| 2036 | 67,514,044 | 3,493,416 | 2.1184 | 7,400,452 | 86,298,832 | 4,465,407 | 1.6993 | 7,588,066 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 155,062,875 | 8,023,502 | 15,053,198 | |
| 2037 | 70,896,041 | 3,668,412 | 2.2038 | 8,084,447 | 70,558,163 | 3,650,929 | 1.7474 | 6,379,634 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 142,704,204 | 7,384,021 | 14,528,760 | |
| 2038 | 46,603,528 | 2,411,432 | 2.2926 | 5,528,448 | 42,782,149 | 2,213,700 | 1.7969 | 3,977,797 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 90,635,677 | 4,689,811 | 9,570,925 | |
| 2039 | 40,663,625 | 2,104,080 | 2.3850 | 5,018,231 | 37,452,618 | 1,847,673 | 1.8477 | 7,404,977 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 119,366,242 | 6,176,432 | 12,487,887 | |
| 2040 | 37,417,177 | 1,936,097 | 2.4811 | 4,803,651 | 34,193,501 | 1,900,000 | 1.9900 | 6,395,402 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 52,860,679 | 2,735,199 | 6,263,732 | |
| 2041 | 23,327,583 | 1,207,052 | 2.5811 | 3,115,521 | 23,070,130 | 676,295 | 1.9538 | 1,321,345 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 37,647,713 | 1,948,026 | 4,501,546 | |
| 2042 | 13,956,921 | 722,180 | 2.6851 | 1,939,127 | 15,468,640 | 800,402 | 2.0091 | 1,608,088 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 30,675,561 | 1,587,262 | 3,611,894 | |
| 2043 | 6,722,862 | 347,865 | 2.7933 | 971,691 | 7,364,042 | 381,042 | 2.0659 | 787,194 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 15,336,904 | 793,586 | 1,823,564 | |
| 2044 | 354,798 | 18,359 | 2.9059 | 53,348 | 229,011 | 11,850 | 2.1244 | 25,174 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 143,201 | |
| 2045 | 346,451 | 17,927 | 3.0230 | 54,192 | 220,298 | 11,399 | 2.1845 | 24,901 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 143,773 | |
| 2046 | 346,451 | 17,927 | 3.1448 | 56,376 | 220,298 | 11,399 | 2.2463 | 25,606 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 146,661 | |
| 2047 | 346,451 | 17,927 | 3.2716 | 58,649 | 220,298 | 11,399 | 2.3099 | 26,330 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 149,659 | |
| 2048 | 354,798 | 18,359 | 3.4034 | 62,481 | 229,011 | 11,850 | 2.3753 | 28,147 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 155,308 | |
| 2049 | 346,451 | 17,927 | 3.5406 | 63,471 | 220,298 | 11,399 | 2.4425 | 27,842 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 155,992 | |
| 2050 | 346,451 | 17,927 | 3.6833 | 66,029 | 220,298 | 11,399 | 2.5116 | 28,630 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 159,338 | |
| 2051 | 346,451 | 17,927 | 3.8317 | 68,689 | 220,298 | 11,399 | 2.5827 | 29,440 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,816,749 | 94,005 | 162,809 | |
| 2052 | 354,798 | 18,359 | 3.9861 | 73,179 | 229,011 | 11,850 | 2.6558 | 31,471 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 1,833,809 | 94,888 | 169,329 | |
| 2053 | 442,138 | 22,878 | 4.1468 | 94,870 | 507,358 | 26,252 | 2.7310 | 71,696 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,199,496 | 113,810 | 231,245 | |
| 2054 | 537,824 | 27,829 | 4.3139 | 120,051 | 794,416 | 41,106 | 2.8082 | 115,434 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 300,164 | |
| 2055 | 537,824 | 27,829 | 4.4877 | 124,888 | 794,416 | 41,106 | 2.8877 | 118,701 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 308,269 | |
| 2056 | 594,014 | 30,736 | 4.6686 | 143,496 | 946,659 | 48,983 | 2.9694 | 145,452 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,790,673 | 144,399 | 353,627 | |
| 2057 | 489,981 | 25,353 | 4.8567 | 123,134 | 650,887 | 33,679 | 3.0535 | 102,839 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 290,627 | |
| 2058 | 633,510 | 32,780 | 5.0525 | 165,621 | 1,081,475 | 55,959 | 3.1399 | 175,707 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,964,985 | 153,419 | 406,007 | |
| 2059 | 489,981 | 25,353 | 5.2561 | 133,260 | 650,887 | 33,679 | 3.2287 | 108,740 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 300,679 | |
| 2060 | 450,484 | 23,310 | 5.4679 | 127,455 | 516,070 | 26,703 | 3.3201 | 88,658 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,216,554 | 114,692 | 280,729 | |
| 2061 | 537,824 | 27,829 | 5.6882 | 158,296 | 794,416 | 41,106 | 3.4141 | 140,340 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 363,315 | |
| 2062 | 537,824 | 27,829 | 5.9175 | 164,678 | 794,416 | 41,106 | 3.5107 | 144,310 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 373,667 | |
| 2063 | 489,981 | 25,353 | 6.1560 | 156,075 | 650,887 | 33,679 | 3.6100 | 121,582 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 342,336 | |
| 2064 | 546,170 | 28,261 | 6.4040 | 180,982 | 803,129 | 41,557 | 3.7122 | 154,267 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 399,928 | |
| 2065 | 537,824 | 27,829 | 6.6621 | 185,399 | 794,416 | 41,106 | 3.8173 | 156,913 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 406,992 | |
| 2066 | 489,981 | 25,353 | 6.9306 | 175,714 | 650,887 | 33,679 | 3.9253 | 132,201 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 372,594 | |
| 2067 | 537,824 | 27,829 | 7.2099 | 200,644 | 794,416 | 41,106 | 4.0364 | 165,920 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 431,243 | |
| 2068 | 546,170 | 28,261 | 7.5005 | 211,970 | 803,129 | 41,557 | 4.1506 | 172,485 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 449,135 | |
| 2069 | 489,981 | 25,353 | 7.8027 | 197,825 | 650,887 | 33,679 | 4.2681 | 143,746 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,390,868 | 123,712 | 406,250 | |
| 2070 | 537,824 | 27,829 | 8.1172 | 225,893 | 794,416 | 41,106 | 4.3889 | 180,410 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 470,982 | |
| 2071 | 537,824 | 27,829 | 8.4443 | 234,996 | 794,416 | 41,106 | 4.5131 | 185,515 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 485,190 | |
| 2072 | 546,170 | 28,261 | 8.7846 | 248,260 | 803,129 | 41,557 | 4.6408 | 192,856 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 505,795 | |
| 2073 | 537,824 | 27,829 | 9.1386 | 254,317 | 794,416 | 41,106 | 4.7721 | 196,161 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 515,158 | |
| 2074 | 537,824 | 27,829 | 9.5069 | 264,567 | 794,416 | 41,106 | 4.9072 | 201,715 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,582,240 | 133,614 | 530,961 | |
| 2075 | 869,646 | 44,999 | 9.8901 | 445,040 | 1,789,884 | 92,615 | 5.0460 | 467,335 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 3,909,530 | 202,293 | 977,055 | |
| 2076 | 546,170 | 28,261 | 10.2886 | 290,764 | 803,129 | 41,557 | 5.1888 | 215,630 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 2,599,299 | 134,497 | 571,073 | |
| 2077 | 537,824 | 27,829 | 10.7033 | 297,861 | 12,442,675 | 643,828 | 5.3357 | 3,435,273 | 1,250,000 | 64,679 | 1.0000 | 64,679 | 14,230,499 | 736,336 | 3,797,814 | |
| 2078 | (1,867,257) | (96,618) | 11.1346 | (1,075,808) | 2,910,063 | 150,577 | 5.4867 | 826,171 | 0 | - | 1.0000 | - | 1,042,806 | 53,958 | (249,638) | |
| | \$376,589,759 | \$19,486,088 | | \$46,997,332 | \$403,883,049 | \$20,898,339 | | \$42,286,922 | \$35,000,000 | \$2,845,895 | | \$2,845,895 | \$835,472,807 | \$43,230,322 | \$92,130,149 | |
| | \$1,320,100,794 | \$68,306,690 | | \$162,266,541 | \$1,360,632,995 | \$70,403,970 | | \$146,694,683 | \$111,250,000 | \$5,756,469 | | \$5,756,469 | \$2,791,983,789 | \$144,467,129 | \$314,717,693 | |

EXTERNAL FUND CALCULATION

Monticello

| | Beginning Balance | Assumed Interest | Decommissioning | | Annuity | Ending Balance |
|------|-------------------|------------------|-----------------|----|---------|----------------|
| | | | Payment | | | |
| 2020 | \$48,017,552 | 1,125,228 | - | \$ | 138,256 | 49,281,037 |
| 2021 | 49,281,037 | 2,326,417 | - | | 857,464 | 52,464,918 |
| 2022 | 52,464,918 | 2,475,423 | - | | 857,464 | 55,797,804 |
| 2023 | 55,797,804 | 2,631,402 | - | | 857,464 | 59,286,670 |
| 2024 | 59,286,670 | 2,794,681 | - | | 857,464 | 62,938,815 |
| 2025 | 62,938,815 | 2,965,601 | - | | 857,464 | 66,761,880 |
| 2026 | 66,761,880 | 3,144,521 | - | | 857,464 | 70,763,865 |
| 2027 | 70,763,865 | 3,331,814 | - | | 857,464 | 74,953,142 |
| 2028 | 74,953,142 | 3,527,872 | - | | 857,464 | 79,338,478 |
| 2029 | 79,338,478 | 3,733,105 | - | | 857,464 | 83,929,047 |
| 2030 | 83,929,047 | 3,218,373 | (\$2,489,566) | | 643,098 | 85,300,952 |
| 2031 | 85,300,952 | 3,258,496 | (\$9,800,589) | | - | 78,758,859 |
| 2032 | 78,758,859 | 3,008,588 | (\$15,386,854) | | - | 66,380,593 |
| 2033 | 66,380,593 | 2,535,739 | (15,758,289) | | - | 53,158,043 |
| 2034 | 53,158,043 | 2,030,637 | (9,957,905) | | - | 45,230,775 |
| 2035 | 45,230,775 | 1,727,816 | (18,829,936) | | - | 28,128,654 |
| 2036 | 28,128,654 | 1,074,515 | (7,333,462) | | - | 21,869,707 |
| 2037 | 21,869,707 | 835,423 | (5,231,794) | | - | 17,473,336 |
| 2038 | 17,473,336 | 667,481 | (4,107,403) | | - | 14,033,415 |
| 2039 | 14,033,415 | 536,076 | (104,309) | | - | 14,465,182 |
| 2040 | 14,465,182 | 552,570 | (110,825) | | - | 14,906,927 |
| 2041 | 14,906,927 | 569,445 | (112,181) | | - | 15,364,191 |
| 2042 | 15,364,191 | 586,912 | (116,341) | | - | 15,834,763 |
| 2043 | 15,834,763 | 604,888 | (120,657) | | - | 16,318,993 |
| 2044 | 16,318,993 | 623,386 | (128,218) | | - | 16,814,161 |
| 2045 | 16,814,161 | 642,301 | (129,791) | | - | 17,326,672 |
| 2046 | 17,326,672 | 661,879 | (134,617) | | - | 17,853,933 |
| 2047 | 17,853,933 | 682,020 | (139,630) | | - | 18,396,324 |
| 2048 | 18,396,324 | 702,740 | (509,969) | | - | 18,589,094 |
| 2049 | 18,589,094 | 710,103 | (150,229) | | - | 19,148,968 |
| 2050 | 19,148,968 | 731,491 | (1,022,583) | | - | 18,857,875 |
| 2051 | 18,857,875 | 720,371 | (1,056,345) | | - | 18,521,901 |
| 2052 | 18,521,901 | 707,537 | (1,628,870) | | - | 17,600,569 |
| 2053 | 17,600,569 | 672,342 | (2,091,116) | | - | 16,181,794 |
| 2054 | 16,181,794 | 618,145 | (1,306,809) | | - | 15,493,130 |
| 2055 | 15,493,130 | 591,838 | (2,083,648) | | - | 14,001,319 |
| 2056 | 14,001,319 | 534,850 | (2,459,862) | | - | 12,076,308 |
| 2057 | 12,076,308 | 461,315 | (189,473) | | - | 12,348,150 |
| 2058 | 12,348,150 | 471,699 | (196,642) | | - | 12,623,207 |
| 2059 | 12,623,207 | 482,207 | (204,083) | | - | 12,901,330 |
| 2060 | 12,901,330 | 492,831 | (217,397) | | - | 13,176,764 |
| 2061 | 13,176,764 | 503,352 | (219,836) | | - | 13,460,280 |
| 2062 | 13,460,280 | 514,183 | (228,173) | | - | 13,746,290 |
| 2063 | 13,746,290 | 525,108 | (236,829) | | - | 14,034,569 |
| 2064 | 14,034,569 | 536,121 | (252,305) | | - | 14,318,384 |
| 2065 | 14,318,384 | 546,962 | (255,154) | | - | 14,610,192 |
| 2066 | 14,610,192 | 558,109 | (264,850) | | - | 14,903,451 |
| 2067 | 14,903,451 | 569,312 | (274,921) | | - | 15,197,842 |
| 2068 | 15,197,842 | 580,558 | (292,921) | | - | 15,485,479 |
| 2069 | 15,485,479 | 591,545 | (296,243) | | - | 15,780,781 |
| 2070 | 15,780,781 | 602,826 | (307,528) | | - | 16,076,079 |
| 2071 | 16,076,079 | 614,106 | (319,246) | | - | 16,370,940 |
| 2072 | 16,370,940 | 625,370 | (340,182) | | - | 16,656,128 |
| 2073 | 16,656,128 | 636,264 | (344,060) | | - | 16,948,332 |
| 2074 | 16,948,332 | 647,426 | (357,194) | | - | 17,238,564 |
| 2075 | 17,238,564 | 658,513 | (370,836) | | - | 17,526,241 |
| 2076 | 17,526,241 | 669,502 | (395,193) | | - | 17,800,551 |
| 2077 | 17,800,551 | 679,981 | (399,725) | | - | 18,080,807 |
| 2078 | 18,080,807 | 690,687 | (1,093,788) | | - | 17,677,706 |
| 2079 | 17,677,706 | 675,288 | (1,273,342) | | - | 17,079,652 |
| 2080 | 17,079,652 | 652,443 | (1,183,807) | | - | 16,548,288 |
| 2081 | 16,548,288 | 632,145 | (1,213,192) | | - | 15,967,241 |
| 2082 | 15,967,241 | 609,949 | (1,255,905) | | - | 15,321,284 |
| 2083 | 15,321,284 | 585,273 | (1,461,047) | | - | 14,445,510 |
| 2084 | 14,445,510 | 551,818 | (1,359,813) | | - | 13,637,516 |
| 2085 | 13,637,516 | 520,953 | (1,393,574) | | - | 12,764,895 |
| 2086 | 12,764,895 | 487,619 | (1,442,824) | | - | 11,809,690 |
| 2087 | 11,809,690 | 451,130 | (1,677,299) | | - | 10,583,521 |
| 2088 | 10,583,521 | 404,291 | (2,877,571) | | - | 8,110,240 |
| 2089 | 8,110,240 | 309,811 | (1,601,597) | | - | 6,818,455 |
| 2090 | 6,818,455 | 260,465 | (1,050,972) | | - | 6,027,948 |
| 2091 | 6,027,948 | 230,268 | (6,258,215) | | - | 0 |

External Levelized

EXTERNAL FUND CALCULATION

Prairie Island Unit 1

| | Beginning Balance | Assumed Interest | Decommissioning | | Annuity | Ending Balance |
|------|-------------------|------------------|-----------------|------|---------|----------------|
| | | | Payment | | | |
| 2020 | 31,883,878 | 744,489 | - | \$ - | - | 32,628,366 |
| 2021 | 32,628,366 | 1,539,059 | - | - | 655,843 | 34,823,268 |
| 2022 | 34,823,268 | 1,641,561 | - | - | 655,843 | 37,120,671 |
| 2023 | 37,120,671 | 1,748,849 | - | - | 655,843 | 39,525,363 |
| 2024 | 39,525,363 | 1,861,148 | - | - | 655,843 | 42,042,354 |
| 2025 | 42,042,354 | 1,978,692 | - | - | 655,843 | 44,676,889 |
| 2026 | 44,676,889 | 2,101,725 | - | - | 655,843 | 47,434,456 |
| 2027 | 47,434,456 | 2,230,503 | - | - | 655,843 | 50,320,802 |
| 2028 | 50,320,802 | 2,365,295 | - | - | 655,843 | 53,341,940 |
| 2029 | 53,341,940 | 2,506,383 | - | - | 655,843 | 56,504,166 |
| 2030 | 56,504,166 | 2,654,058 | - | - | 655,843 | 59,814,067 |
| 2031 | 59,814,067 | 2,808,631 | - | - | 655,843 | 63,278,541 |
| 2032 | 63,278,541 | 2,970,422 | - | - | 655,843 | 66,904,805 |
| 2033 | 66,904,805 | 2,369,495 | (\$3,024,974) | - | 439,415 | 66,688,742 |
| 2034 | 66,688,742 | 2,354,113 | (\$9,282,044) | - | - | 59,760,810 |
| 2035 | 59,760,810 | 2,109,557 | (\$13,953,144) | - | - | 47,917,222 |
| 2036 | 47,917,222 | 1,691,478 | (12,163,507) | - | - | 37,445,193 |
| 2037 | 37,445,193 | 1,321,815 | (7,746,004) | - | - | 31,021,005 |
| 2038 | 31,021,005 | 1,095,041 | (3,397,586) | - | - | 28,718,460 |
| 2039 | 28,718,460 | 1,013,762 | (11,823,480) | - | - | 17,908,742 |
| 2040 | 17,908,742 | 632,179 | (5,476,550) | - | - | 13,064,371 |
| 2041 | 13,064,371 | 461,172 | (3,100,003) | - | - | 10,425,540 |
| 2042 | 10,425,540 | 368,022 | (2,778,591) | - | - | 8,014,971 |
| 2043 | 8,014,971 | 282,928 | (1,420,662) | - | - | 6,877,238 |
| 2044 | 6,877,238 | 242,766 | (143,201) | - | - | 6,976,803 |
| 2045 | 6,976,803 | 246,281 | (143,773) | - | - | 7,079,312 |
| 2046 | 7,079,312 | 249,900 | (146,661) | - | - | 7,182,551 |
| 2047 | 7,182,551 | 253,544 | (149,659) | - | - | 7,286,436 |
| 2048 | 7,286,436 | 257,211 | (155,308) | - | - | 7,388,340 |
| 2049 | 7,388,340 | 260,808 | (155,992) | - | - | 7,493,156 |
| 2050 | 7,493,156 | 264,508 | (159,338) | - | - | 7,598,326 |
| 2051 | 7,598,326 | 268,221 | (162,809) | - | - | 7,703,738 |
| 2052 | 7,703,738 | 271,942 | (169,329) | - | - | 7,806,351 |
| 2053 | 7,806,351 | 275,564 | (231,244) | - | - | 7,850,671 |
| 2054 | 7,850,671 | 277,129 | (300,164) | - | - | 7,827,636 |
| 2055 | 7,827,636 | 276,316 | (308,269) | - | - | 7,795,683 |
| 2056 | 7,795,683 | 275,188 | (353,627) | - | - | 7,717,243 |
| 2057 | 7,717,243 | 272,419 | (290,652) | - | - | 7,699,010 |
| 2058 | 7,699,010 | 271,775 | (406,007) | - | - | 7,564,777 |
| 2059 | 7,564,777 | 267,037 | (306,679) | - | - | 7,525,135 |
| 2060 | 7,525,135 | 265,637 | (280,792) | - | - | 7,509,980 |
| 2061 | 7,509,980 | 265,102 | (363,315) | - | - | 7,411,767 |
| 2062 | 7,411,767 | 261,635 | (373,667) | - | - | 7,299,735 |
| 2063 | 7,299,735 | 257,681 | (342,336) | - | - | 7,215,079 |
| 2064 | 7,215,079 | 254,692 | (399,928) | - | - | 7,069,843 |
| 2065 | 7,069,843 | 249,565 | (406,992) | - | - | 6,912,417 |
| 2066 | 6,912,417 | 244,008 | (372,594) | - | - | 6,783,831 |
| 2067 | 6,783,831 | 239,469 | (431,243) | - | - | 6,592,057 |
| 2068 | 6,592,057 | 232,700 | (449,135) | - | - | 6,375,622 |
| 2069 | 6,375,622 | 225,059 | (406,250) | - | - | 6,194,432 |
| 2070 | 6,194,432 | 218,663 | (470,982) | - | - | 5,942,113 |
| 2071 | 5,942,113 | 209,757 | (485,190) | - | - | 5,666,680 |
| 2072 | 5,666,680 | 200,034 | (505,795) | - | - | 5,360,918 |
| 2073 | 5,360,918 | 189,240 | (515,158) | - | - | 5,035,000 |
| 2074 | 5,035,000 | 177,736 | (530,961) | - | - | 4,681,775 |
| 2075 | 4,681,775 | 165,267 | (977,055) | - | - | 3,869,987 |
| 2076 | 3,869,987 | 136,611 | (571,073) | - | - | 3,435,525 |
| 2077 | 3,435,525 | 121,274 | (3,797,925) | - | - | (241,126) |
| 2078 | (241,126) | (8,512) | 249,638 | - | - | 0 |

External Levelized

EXTERNAL FUND CALCULATION

Prairie Island Unit 2

| | Beginning Balance | Assumed Interest | Decommissioning | | Annuity | Ending Balance |
|------|-------------------|------------------|-----------------|------|---------|----------------|
| | | | Payment | | | |
| 2020 | 34,101,997 | 806,512 | - | \$ - | - | 34,908,509 |
| 2021 | 34,908,509 | 1,659,993 | - | - | 372,971 | 36,941,473 |
| 2022 | 36,941,473 | 1,756,152 | - | - | 372,971 | 39,070,596 |
| 2023 | 39,070,596 | 1,856,860 | - | - | 372,971 | 41,300,427 |
| 2024 | 41,300,427 | 1,962,331 | - | - | 372,971 | 43,635,728 |
| 2025 | 43,635,728 | 2,072,791 | - | - | 372,971 | 46,081,490 |
| 2026 | 46,081,490 | 2,188,475 | - | - | 372,971 | 48,642,936 |
| 2027 | 48,642,936 | 2,309,632 | - | - | 372,971 | 51,325,538 |
| 2028 | 51,325,538 | 2,436,519 | - | - | 372,971 | 54,135,028 |
| 2029 | 54,135,028 | 2,569,408 | - | - | 372,971 | 57,077,406 |
| 2030 | 57,077,406 | 2,708,582 | - | - | 372,971 | 60,158,959 |
| 2031 | 60,158,959 | 2,854,340 | - | - | 372,971 | 63,386,269 |
| 2032 | 63,386,269 | 3,006,991 | - | - | 372,971 | 66,766,231 |
| 2033 | 66,766,231 | 3,166,863 | - | - | 372,971 | 70,306,066 |
| 2034 | 70,306,066 | 2,423,853 | (\$1,223,206) | - | 309,566 | 71,816,279 |
| 2035 | 71,816,279 | 2,470,480 | (\$8,052,082) | - | - | 66,234,677 |
| 2036 | 66,234,677 | 2,278,473 | (\$15,053,198) | - | - | 53,459,952 |
| 2037 | 53,459,952 | 1,839,022 | (14,528,760) | - | - | 40,770,214 |
| 2038 | 40,770,214 | 1,402,495 | (9,570,925) | - | - | 32,601,785 |
| 2039 | 32,601,785 | 1,121,501 | (12,487,887) | - | - | 21,235,399 |
| 2040 | 21,235,399 | 730,498 | (6,263,732) | - | - | 15,702,165 |
| 2041 | 15,702,165 | 540,154 | (4,501,546) | - | - | 11,740,774 |
| 2042 | 11,740,774 | 403,883 | (3,611,894) | - | - | 8,532,762 |
| 2043 | 8,532,762 | 293,527 | (1,823,564) | - | - | 7,002,725 |
| 2044 | 7,002,725 | 240,894 | (143,201) | - | - | 7,100,418 |
| 2045 | 7,100,418 | 244,254 | (143,773) | - | - | 7,200,899 |
| 2046 | 7,200,899 | 247,711 | (146,661) | - | - | 7,301,950 |
| 2047 | 7,301,950 | 251,187 | (149,659) | - | - | 7,403,478 |
| 2048 | 7,403,478 | 254,680 | (155,308) | - | - | 7,502,850 |
| 2049 | 7,502,850 | 258,098 | (155,992) | - | - | 7,604,956 |
| 2050 | 7,604,956 | 261,610 | (159,338) | - | - | 7,707,228 |
| 2051 | 7,707,228 | 265,129 | (162,809) | - | - | 7,809,548 |
| 2052 | 7,809,548 | 268,648 | (169,329) | - | - | 7,908,867 |
| 2053 | 7,908,867 | 272,065 | (231,245) | - | - | 7,949,688 |
| 2054 | 7,949,688 | 273,469 | (300,164) | - | - | 7,922,993 |
| 2055 | 7,922,993 | 272,551 | (308,269) | - | - | 7,887,275 |
| 2056 | 7,887,275 | 271,322 | (353,627) | - | - | 7,804,971 |
| 2057 | 7,804,971 | 268,491 | (290,652) | - | - | 7,782,809 |
| 2058 | 7,782,809 | 267,729 | (406,007) | - | - | 7,644,531 |
| 2059 | 7,644,531 | 262,972 | (306,679) | - | - | 7,600,823 |
| 2060 | 7,600,823 | 261,468 | (280,792) | - | - | 7,581,500 |
| 2061 | 7,581,500 | 260,804 | (363,315) | - | - | 7,478,988 |
| 2062 | 7,478,988 | 257,277 | (373,667) | - | - | 7,362,598 |
| 2063 | 7,362,598 | 253,273 | (342,336) | - | - | 7,273,535 |
| 2064 | 7,273,535 | 250,210 | (399,928) | - | - | 7,123,816 |
| 2065 | 7,123,816 | 245,059 | (406,992) | - | - | 6,961,884 |
| 2066 | 6,961,884 | 239,489 | (372,594) | - | - | 6,828,778 |
| 2067 | 6,828,778 | 234,910 | (431,243) | - | - | 6,632,445 |
| 2068 | 6,632,445 | 228,156 | (449,135) | - | - | 6,411,467 |
| 2069 | 6,411,467 | 220,554 | (406,250) | - | - | 6,225,771 |
| 2070 | 6,225,771 | 214,167 | (470,982) | - | - | 5,968,956 |
| 2071 | 5,968,956 | 205,332 | (485,190) | - | - | 5,689,098 |
| 2072 | 5,689,098 | 195,705 | (505,795) | - | - | 5,379,007 |
| 2073 | 5,379,007 | 185,038 | (515,158) | - | - | 5,048,887 |
| 2074 | 5,048,887 | 173,682 | (530,961) | - | - | 4,691,608 |
| 2075 | 4,691,608 | 161,391 | (977,055) | - | - | 3,875,944 |
| 2076 | 3,875,944 | 133,332 | (571,073) | - | - | 3,438,204 |
| 2077 | 3,438,204 | 118,274 | (3,797,814) | - | - | (241,336) |
| 2078 | (241,336) | (8,302) | 249,638 | - | - | 0 |

External Levelized