

**BASIN ELECTRIC
POWER COOPERATIVE**

1717 EAST INTERSTATE AVENUE
BISMARCK, NORTH DAKOTA 58501-0564
PHONE: 701/223-0441
FAX: 701/224-5336



June 19, 2013

Mr. Brian Kalk, Commissioner
North Dakota Public Service Commission
Capitol Building
600 E. Boulevard Ave.
Bismarck, ND 58505



Dear Commissioner Kalk:

Pursuant to the requirements of the North Dakota Energy Conversion and Transmission Facility Siting Act, Basin Electric Power Cooperative hereby submits its Ten Year Plan.

Enclosed is an original and 9 copies of the plan.

Sincerely,

Andrew M. Serri
CEO & General Manager

vlw
ATTACHMENT

STATE OF NORTH DAKOTA)
)
COUNTY OF BURLEIGH)

AFFIDAVIT OF MAILING

I hereby certify that the following list contains the names and last address of each designated state agency and/or state official given notice of filing of the Basin Electric Power Cooperative Ten Year Plan pursuant to the Rules and Regulations of the North Dakota Public Service Commission governing the Siting of Energy Conversion and Transmission Facilities. I hereby certify that I have, by depositing letters of notice with the United States Postal Service, caused notice to be given all such state agencies and state officials that Basin Electric Power Cooperative has filed their Ten Year Plan with the North Dakota Public Services Commission.

Name

Last Known Address

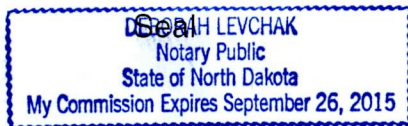
See Exhibit A Attached

See Exhibit A Attached

Matthew Stoltz

Signature

On this 17 day of June, 2013, Matthew Stoltz known to me, under oath deposed and said the above Affidavit of Mailing is true and correct.



Deborah Levchak
Notary Public

Mail to: Public Service Commission
600 E. Blvd. Ave.; Capitol Building
Bismarck, ND 58505

EXHIBIT A

Mr. Larry Taborsky
Director
ND Aeronautics Commission
P. O. Box 5020
Bismarck, ND 58502

Mr. Wayne Kutzer, Director
ND Dept. of Career & Tech. Education
State Capitol – 15th Floor
600 E. Boulevard Ave.; Dept. 270
Bismarck, ND 58505-0610

Mr. Gerry Fisher, Asst. Director
ND State Land Department
Energy Development Impact Office
P.O. Box 5523
Bismarck, ND 58506-5523

Dr. Terry Dwelle
State Health Officer
ND Department of Health
600 E. Boulevard Ave.
Bismarck, ND 58505-0200

Ms. Maren Daley
Director
Job Service of ND
1601 E. Century Ave.
Bismarck, ND 58503

Ms. Karlene Fine, Director
ND Industrial Commission
State Capitol – 14th Floor
600 E. Boulevard Ave.; Dept. 405
Bismarck, ND 58505-0840

Mr. Grant Levi
Director
ND Department of Transportation
608 E. Boulevard Ave.
Bismarck, ND 58505-0700

Mr. Wayne Stenehjem
ND Attorney General
State Capitol Building
600 E. Boulevard Ave.; Dept. 125
Bismarck, ND 58505

Mr. Paul Lucy, Director
ND Department of Commerce
Division of Economic Development
1600 E. Century Ave. Ste 2
Bismarck, ND 58503-0649

Mr. Doug Goehring
Commissioner
ND Department of Agriculture
600 E. Boulevard Ave.; Dept. 602
Bismarck, ND 58505

Ms. Bonnie Storbakken
Commissioner
ND Department of Labor
600 E. Boulevard Ave.; Dept. 406
Bismarck, ND 58505-0340

Mr. Terry Steinwand
Director
ND Game & Fish Department
100 N. Bismarck Expressway
Bismarck, ND 58501-5095

Ms. Maggie Anderson
Director
ND Department of Human Services
600 E. Boulevard Ave.; Dept. 325
Bismarck, ND 58505-0250

Mr. Merlan Paaverud
Director
ND State Historical Society
612 E. Boulevard Ave.
Bismarck, ND 58505

Mr. Mark Zimmerman
Director
ND Parks & Recreation Department
1600 E. Century Ave., Suite 3
Bismarck, ND 58503-0649

Mr. Scott Davis
Director
ND Indian Affairs Commission
600 E. Boulevard Ave.
Capitol Building – 1st Floor Judicial Wing
Bismarck, ND 58505-0300

Mr. Todd Sando
State Engineer
ND State Water Commission
900 East Boulevard; Dept. 770
Bismarck, ND 58505-0850

Mr. Curtis Jabs
Director
ND Transmission Authority
1016 East Owens Ave.
Bismarck, ND 58502

US Fish & Wildlife Service
ND Field Office
3425 Miriam Ave.
Bismarck, ND 58501

Federal Aviation Administration
Bismarck Airports District Office
2301 University Dr., Bldg. 23B
Bismarck, ND 58504

McKenzie County Courthouse
201 5th St NW, Suite 543
Watford City, ND 58854

Mr. Lance Gaebe
Commissioner
ND Department of Trust Lands
P. O. Box 5523
Bismarck, ND 58506-5523

Mr. Scott Hochhalter
State Soil Specialist
ND Soil Conservation Committee
2718 Gateway Ave., Unit #104
Bismarck, ND 58503

Mr. Justin Kringstad
Director
ND Pipeline Authority
State Capitol 14th Floor
600 E. Boulevard Ave., Dept. 405
Bismarck, ND 58505-0840

Major General David Sprynczynatyk
Adjutant General
US Department of Defense
P. O. Box 5511
Bismarck, ND 58506-5511

US Army Corps of Engineers
1513 12th St. SE
Bismarck, ND 58504

Honorable Jack Dalrymple
Governor of North Dakota
State Capitol – First Floor
600 E. Boulevard Ave.
Bismarck, ND 58505

Williams County Courthouse
PO Box 2047
Williston, ND 58802-2047



**BASIN ELECTRIC
POWER COOPERATIVE**

NORTH DAKOTA TEN-YEAR PLAN

2013

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INTRODUCTION

Basin Electric Power Cooperative is a regional rural electric wholesale power supplier headquartered at 1717 East Interstate Avenue, Bismarck, North Dakota. The region served by Basin Electric includes all or portions of nine states encompassing Montana, Wyoming, Colorado, North Dakota, South Dakota, Nebraska, Minnesota, Iowa and New Mexico. Basin Electric owns and operates or otherwise jointly shares energy conversion and transmission facilities throughout this region. Basin Electric is the parent company to eight subsidiaries, Basin Cooperative Services, Dakota Gasification Company, Dakota Coal Company, Montana Limestone Company, Basin Telecommunications Inc, Souris Valley Pipeline LTD., PrairieWinds ND 1 Inc., and PrairieWinds SD 1 Inc. A ten-year plan for Dakota Gasification Company will be submitted under separate cover by Dakota Gasification Company.

SECTION A: EXISTING ENERGY CONVERSION FACILITIES

Basin Electric owns all or portions of fourteen existing energy conversion facilities. Four of these facilities are in North Dakota; the Antelope Valley Station near Beulah; the Leland Olds Station at Stanton; PrairieWinds 1 near Minot; and the Minot Wind Project near Minot. Other existing energy conversion facilities outside of North Dakota are the Laramie River Station at Wheatland, Wyoming; the Wyoming Distributed Generation in Wyoming; the Dry Fork Station near Gillette, Wyoming; the Spirit Mound Station at Vermillion, South Dakota; the Chamberlain Wind Project at Chamberlain, South Dakota; the Groton Generation Station near Groton, South Dakota; Crow Lake Wind Project near White Lake, South Dakota; Deer Creek Station near Brookings, South Dakota; Wisdom Unit 2 at Spencer, Iowa; and the Culbertson Generation Station near Culbertson, Montana.

Basin Electric purchases all or portions of the output from Waste Heat Recovery Units located near St. Anthony, North Dakota; Zeeland, North Dakota; Killdeer, North Dakota and three other Heat Recovery Units located in South Dakota; one in Montana; and one in Minnesota; North Dakota 1 Wind Energy Center near Edgeley and Kulm, North Dakota; the Wilton Wind Energy Center near Wilton, North Dakota; the Baldwin Wind Project near Baldwin, North Dakota; the South Dakota Wind Energy Center near Highmore, South Dakota; the Day County Wind Farm near Groton, South Dakota; the Pipestone, Minnesota School District Wind Turbine; a portion of Unit #4 of the George Neal Station near Salix, Iowa; the City of Madison, South Dakota Diesel Generators; Walter Scott Energy Center Units 3&4 near Council Bluffs, IA; Duane Arnold Energy Center near Palo, Iowa; Wisdom Station Units 1&2 near Spencer, Iowa; Spencer Combustion Turbine, Spencer, Iowa; Estherville, Iowa Diesel Generation; Pocahontas, Iowa Diesel Generation; Webster City, Iowa Combustion Turbine; and various wind facilities near Ayshire, Iowa; Duncan/Klemme County, Iowa; Lakota, Iowa; and Superior, Iowa.

The most recent Energy Information Administration (EIA) Form No. 923 for the Antelope Valley Station and the Leland Olds Station are included as Exhibit 1.

SECTION B: ENERGY CONVERSION FACILITIES UNDER CONSTRUCTION

Basin Electric is constructing the Pioneer Generation Station Unit #1 (45MW) natural gas fired combustion turbine located near Williston, North Dakota. The commercial operation date is August of 2013; construction began the summer of 2012.

Basin Electric is also constructing the Lonesome Creek Station Unit #1 (45MW) natural gas fired combustion turbine located near Watford City, North Dakota. The commercial operation date is September of 2013; construction began the summer of 2012.

SECTION C: PROPOSED ENERGY CONVERSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS

Basin Electric is developing two additional 45MW natural gas fired combustion turbines located at the Pioneer Generation Station site near Williston, North Dakota. These generators will be named "Pioneer Generation Station Unit #2 and Unit #3" and the projected in-service date is the spring of 2014.

Basin Electric is also developing two additional 45MW natural gas fired combustion turbines located at the Lonesome Creek Station site near Watford City, North Dakota. These generators will be named "Lonesome Creek Generation Station Unit #2 and Unit #3" and the projected in-service date is the spring of 2015.

Both the Pioneer Generation Station and the Lonesome Creek Station may accommodate future generation expansion possibilities. Basin Electric is continuing to investigate the need for additional generation in western North Dakota to meet the increasing needs of our membership.

SECTION D: PROPOSED ENERGY CONVERSION FACILITIES DURING THE NEXT TEN-YEAR TIME PERIOD

Basin Electric is evaluating the development of new generating resources (coal, gas, and wind) in the Dakotas to meet Basin Electric's forecasted load growth.

SECTION E: EXISTING TRANSMISSION FACILITIES (ELECTRIC)

Basin Electric's transmission and related substation facilities in North Dakota and their associated commercial dates are listed in the following table:

a. Transmission Lines

LINES - BY VOLTAGE COMMERCIAL IN-SERVICE DATE

69 kV Lines

Leland Olds - Basin Electric Sub 01/09/66

115 kV Lines

Basin Electric Sub - Stanton Tap 01/09/66

Logan-Kenmare Line 04/01/79

Logan-Mallard Line 04/01/79

Charlie Creek-Squaw Gap 12/31/82

Squaw Gap-Richland 12/31/82

230 kV Lines

Leland Olds #1-Washburn Double Circuit 01/09/66

Leland Olds-Logan Line 03/31/80

Leland Olds #2 - Basin Electric Sub 12/15/75

Logan-Tioga 05/01/82

Tioga-Canadian Border (Estevan) 05/01/82

Belfield-Rhame 04/07/10

Williston-Tioga 01/10/11

345 kV Lines

Leland Olds-Groton-Watertown 12/15/75

Leland Olds-Ft. Thompson (SD) Line 12/15/75

Leland Olds-AVS North Line 11/30/83

Leland Olds-AVS South Line 07/01/84

Antelope Valley Station-Charlie Creek 11/30/83

500 kV Lines

Antelope Valley Station-Huron, SD
(345 kV operation) 07/01/84

b. Substations

115 kV Wm. J. Neal Station Switchyard 04/01/52

230 kV Leland Olds Switchyard 01/09/66

230 kV Washburn, ND Switchyard 01/09/66

115 kV Stanton Tap Structure 01/09/66

230/115/69 kV BEPC Substation 01/09/66

345/230 kV Leland Olds Switchyard Addition 12/15/75

230/115 kV Dickinson, ND Substation 12/15/75

230/115 kV Logan Substation 04/01/79

345/115 kV Charlie Creek Substation	11/30/83
345 kV Antelope Valley Station Switchyard	11/30/83
230/115 kV Neset Substation	10/07/09
230 kV Rhame Substation	04/07/10

- c. Basin Electric does not anticipate retiring any of its existing transmission facilities within the next ten (10) years.

SECTION F: EXISTING TRANSMISSION FACILITIES (PIPELINES)

Pipeline transmission facilities utilized by Basin Electric are water supply lines to the Leland Olds Station, Antelope Valley Station, a 12 mile long natural gas fuel supply pipeline associated with the Groton Generation Station, and a 13 mile long natural gas fuel supply pipeline associated with the Deer Creek Generation Station. The Leland Olds water line is approximately one-quarter mile in length and is located on plant site property owned by Basin Electric.

The water supply line for the Antelope Valley Station is a forty-two inch diameter steel-lined concrete pipe of approximately nine miles in length. The line runs directly north from the plant site to an intake structure and pumping station located on Lake Sakakawea. This line was designed and constructed as a joint use facility for Basin Electric and the adjacent Great Plains Synfuels Plant. The State of North Dakota's southwest water pipeline uses the same intake structure and pumping station as the Antelope Valley Station pipeline. The Basin Electric line was designed to have a maximum operating pressure of 160 PSI gauge and a flow rate of 30,000 GPM. The pipeline was constructed, with a minimum earth cover of 84 inches. The pipeline was placed in-service in 1984. A new parallel pipeline was installed in 2006, because of recurring failures of the existing line. The new line is steel pipe with the same design parameters. The old line will be maintained as a back-up facility. None of Basin Electric's pipeline facilities are projected for retirement within the next ten-year period.

SECTION G: PROPOSED TRANSMISSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS (ELECTRIC)

Basin Electric is developing the Antelope Valley-Williston-Tioga 345kV Transmission Line Project. The entire project will consist of constructing approximately 190 miles of new single circuit 345kV and double circuit 345/115kV transmission lines, the construction of two new substations, modifications to three existing substations and a 345kV switchyard, river crossings, temporary construction staging sites and other facilities. This project should be in-service by the end of 2015.

Basin Electric is also developing the Blaisdell-Berthold 115kV Transmission Line Project. This project will be 15 miles in length and will be in-service by the end of 2013.

Transmission studies are underway to analyze any other required transmission improvements to accommodate network load growth. Results of these studies may indicate the need for additional load serving transmission facilities.

SECTION H: **PROPOSED TRANSMISSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS (PIPELINE)**

Results of the resource development of new generating resources (refer to section D) will identify pipeline improvements necessary to support the supply required by the new resources. Generation studies are underway to analyze the required improvements to accommodate member load growth. Results of these studies may indicate the need for additional load serving generation facilities. DGC proposes to construct, in mid to late 2013, a 3.5 mile, 10' diameter natural gas pipeline, the sole purpose of which will be to provide AVS with access to natural gas for use only during startup activities.

SECTION I: **PROPOSED TRANSMISSION FACILITIES DURING THE NEXT TEN-YEAR TIME PERIOD (ELECTRIC AND PIPELINE)**

Results of the resource development of new generating resources (refer to section D) will identify transmission improvements necessary to support the transmission service required by the new resources. Transmission studies are underway to analyze the required transmission improvements to accommodate network load growth. Results of these studies may indicate the need for additional load serving transmission facilities.

SECTION J: **REGIONAL COORDINATION**

Mid-West Electric Consumers Association

Basin Electric Power Cooperative is a member of the Mid-West Electric Consumers Association (Mid-West). Mid-West, which was founded in 1958, is a regional coalition of consumer-owned electric utilities that purchase power from the federal multi-purpose projects in the Missouri River Basin. Mid-West's Water & Power Marketing Committee meets throughout the year to discuss and review planned additions of Mid-West member utilities.

Mid-Continent Area Power Pool

Basin Electric is a member of the Mid-Continent Area Power Pool (MAPP). The Mid-Continent Area Power Pool (MAPP) is an association of electric utilities and other electric industry participants operating in all or parts of the following states: Iowa, Minnesota, Montana, Nebraska, North Dakota, and South Dakota. The MAPP organization has three primary functions: regional transmission planning, reliability planning and coordination, and transmission tariff services coordination. These

functions support the provision of reliable, efficient, and economical power in the upper Midwest. Basin Electric participates on various committees and work groups as a function of MAPP.

The Transmission Planning Committee (TPC), which coordinates MAPP's ten-year plan, has formed the MAPP Sub-Regional Planning Group, whose primary purpose is to perform coordinated transmission planning. The TPC also helps to coordinate activities related to MAPP transmission providers FERC order 890 and order 1000 efforts.

The MAPP Sub-Regional Planning Group includes utilities in the North and South Dakota area. In compliance with NERC planning standards, the group is required to develop a coordinated ten-year plan for MAPP every two years for their region. This ten-year plan evaluates the adequacy of existing interconnected systems to support load growth and provide an indication of the ability of the system to meet regional reliability criteria.

Basin Electric also participates on the MAPP Design Review Subcommittee which ensures that long term reliability of the MAPP system is not adversely affected by changes to generation and transmission facilities.

Coordination with Area Utilities

Western Area Power Administration

Basin Electric coordinates regional power supplies with the Western Area Power Administration. An example is the Miles City, Montana DC converter station. The station was built by the Western Area Power Administration (WAPA) to transfer electric power across the east/west transmission separation. Basin Electric has financed 40% of the cost of the station and contracted with WAPA for 40% of the capacity of the 200 MW station. This station enables Basin Electric to serve Central Montana Electric Power Cooperative, a Class A member with electrical loads primarily located west of the east-west separation.

Montana-Dakota Utilities Co.

Member cooperatives of Basin Electric have a common service area in the western half of North Dakota with Montana-Dakota Utilities Co. (MDU). To avoid duplication of transmission facilities, an agreement was entered into on January 1, 1972, providing for joint use and construction of transmission facilities. This agreement provides for studies to be performed every two years to determine what additional transmission will be required to meet area load growth. This agreement calls for the sharing of facilities on the basis of each utility's respective load projections.

The Tioga-Saskatchewan 230 kV line constructed by Basin Electric and Saskatchewan Power Corporation allows the purchase and sale of power among regional utilities. This line was reviewed with MDU and routed so that it could be tapped for future use by MDU and the member systems of Basin Electric. A result of this review was the Tioga 230/115 kV substation constructed by MDU and shared by Basin Electric.

The Miles City-Hettinger-New Underwood, SD, 230 kV line is another example of joint planning. This line was jointly planned and constructed with WAPA, MDU and Basin Electric. Basin Electric and MDU each have 25% capacity rights and WAPA owns and has capacity rights to 50% of the line.

Integrated System Transmission Tariff

Basin Electric Power Cooperative, WAPA and Heartland Consumers Power District have combined their transmission facilities to create the Integrated System (IS) transmission tariff. This tariff was created to facilitate the use of the transmission facilities of Basin Electric Power Cooperative, WAPA and Heartland Consumers Power District by other utilities required under FERC Order 888.

SECTION K: ENVIRONMENTAL INFORMATION

The primary obligation of Basin Electric is to provide an adequate wholesale supply of dependable, low-cost electric power to its member systems, consistent with the public interest. In conjunction with this, Basin Electric endeavors to maximize the socio-economic benefits associated with electrical generation and transmission projects and to minimize negative impacts associated with these projects. This is particularly true with respect to protecting the agricultural lifestyle and productivity of this region.

The Cooperative remains committed to preserving and enhancing the ecological balance of this region for the benefit of future generations. It is the policy of Basin Electric that environmental impacts be monitored and steps taken to mitigate and alleviate adverse effects. Basin Electric has instituted a variety of programs designed to maximize the most efficient use of energy and to benefit the human, agricultural, and biological environments.

Projects proposed by Basin Electric adhere to the requirements of the Rural Utilities Service Environmental Policies and Procedures which describe the procedures for compliance with the provisions of the National Environmental Policy Act (NEPA). Through the NEPA process, Basin Electric encourages state, federal and public participation in proposed projects so that once potential impact issues are identified appropriate mitigation measures can be formulated with the assistance of the participants to minimize potential impacts. An Environmental Assessment is developed which includes a comprehensive discussion and evaluation of environmental issues and serves as a baseline document for subsequent environmental regulatory permits and a federal Environmental Impact Statement when required. The goal of this process is to select a facility location that best minimizes environmental, cultural and socio-economic impacts and engineering and construction costs.

Basin Electric adheres to the appropriate North Dakota statutes regulating industrial development projects such as electrical generating facilities and high voltage transmission lines and substations. In addition, it is Basin Electric's practice to inform affected state and federal agencies when prospective projects are identified to solicit their input early in the planning process.

Basin Electric utilizes a socio-economic impact management program to assist communities in addressing population growth associated with the construction of energy conversion facilities. Basin Electric follows an open-planning process to determine the specific negative and positive impacts that may develop in an area, and works closely with the local citizens and public officials on key issues. Once issues are defined, strategies are recommended to alleviate the adverse conditions. Basin Electric further provides public officials with the technical assistance to secure financing for public services and facilities needed to alleviate negative impacts.

SECTION L: PROJECTED DEMAND FOR SERVICES

Exhibit 2 represents Basin Electric's sale to its Class A members. This exhibit represents Basin Electric's supplemental power supply responsibilities to its members. As a supplemental power supplier, Basin Electric is responsible for providing the members requirements in excess of the fixed amount of power they receive from WAPA and other sources.

An econometric based load forecast was completed in early 2011 with an annual update completed in both early 2012 and 2013. The econometric forecasting system in the load forecast is a bottom up process that begins by developing econometric equations and forecasts for each distribution cooperative. The total system consists of approximately 350 forecasting equations and over 700 explanatory variables. Annual and monthly forecasts of energy and demand are conducted for a 15-year period. The distribution cooperative forecasts are combined to obtain the generation and transmission cooperative forecasts (G&T's). The G&T's power requirements are then separated into various power supply responsibilities. The Basin Electric components are combined to obtain the Basin Electric total power supply responsibility.

The modeling and forecasting is performed at Basin Electric. Throughout the modeling and forecasting process there is constant communication and review by member systems and the Rural Utilities Service (RUS) in Washington, D.C. The RUS is responsible to review and approve close to 1,000 distribution cooperative forecasts as well as large G&T systems forecasts such as Basin Electric. The RUS insures that state of the art methods and technologies are being used to produce short term and long-term forecasts. Historical energy data is combined with external data obtained from government and private sector sources as well as membership to form econometric forecasting equations. External projections of explanatory economic and demographic variables used in the forecasting process are obtained from the Food and Agricultural Policy Research Institute at the University of Missouri-Columbia, MO.; Woods & Poole Economics, Inc.; and the Department of Energy, Washington, D.C.; as well as others.

Basin Electric's service area is electrically divided into western and eastern systems. These systems are separated by the east-west ties, which are boundaries that separate two major electrical regions of the United States. This boundary essentially runs south from Fort Peck, MT, approximately following the South Dakota-Wyoming, Nebraska-Wyoming, and Colorado-Kansas borders. As a result of this, Basin Electric must supply

generating capacity and energy on both sides of the ties to serve its member-load requirements.

The resources available to Basin Electric to serve its members' east-side requirements are as follows:

1. Leland Olds Station: Leland Olds Unit 1 was placed in-service on January 9, 1966 and is a base-load thermal unit located near Stanton, ND with a net capacity of 222 MW. Leland Olds Unit 2 was placed in-service on December 15, 1975 with a net capacity of 447 MW. Basin Electric has committed to install emission control equipment at the Leland Olds Station which requires an increase to the station service, reducing the overall rating of each unit. Leland Olds Unit 2 emission control equipment was put in-service January 1, 2013. The equipment for Unit 1 is slated to be in-service mid-2013.
2. WAPA Peaking Capacity: In 1968 Basin Electric executed a long-term contract with the federal government for USBR (now WAPA) hydro peaking from the dams in the Missouri River Basin. This contract currently provides Basin Electric with 268.2 MW of winter peaking capacity at load and for Basin Electric to return a like amount of energy to Western during off-peak period; whereas an at-plant value includes losses on the Integrated System (IS).
3. Spirit Mound Station: Basin Electric placed in service two 60 MW (net) nameplate fuel oil-fired combustion turbines on June 30, 1978. The combined winter rating of the two units is 120 MW (net) and the summer rating is 100 MW (net). The capacity is intended to be used primarily as reserves or replacement during initial outages of base-load units or during peak load periods when existing base-load units cannot meet the demand. The Spirit Mound Station is located near Vermillion, SD.
4. Laramie River Station: Basin Electric, together with five other consumer-owned power supply entities, began construction of the Laramie River Station near Wheatland in southeast Wyoming in July, 1976. The station's three units became fully operational on November 1, 1982, with Unit 1 at a net capacity of 570 MW; Unit 2 at a net capacity of 570 MW; and Unit 3 at a net capacity of 570 MW. The current rating of the units is due to turbine upgrades that occurred in 2007, 2008 and 2009. Basin Electric, as Project Manager and Operating Agent for the Missouri Basin Power Project, was assigned overall responsibility for the design, construction and operation of the power plant and related transmission. Units 2 and 3 of the Laramie River Station are electrically connected to the western system; Unit 1 is electrically connected to the eastern system. The amount of power Basin Electric receives from the eastern unit is 48 MW (net).
5. Antelope Valley Station: Basin Electric operates two 450 MW (net) thermal-generating units near Beulah, ND. Approximately 135 MW of electric power for the Dakota Gasification Company Synfuels Plant facilities are supplied by the Antelope Valley Station. Unit 1 began commercial operation on July 1, 1984 and Unit 2 began partial commercial operation on June 1, 1986.

6. Neal IV: Basin Electric and Northwest Iowa Power Cooperative (NIPCO), one of Basin Electric's member cooperative, negotiated a power supply contract which provides that NIPCO will sell to Basin Electric NIPCO's 31 MW of uncommitted capacity and associated energy from Unit No. 4 of the George Neal Generating Station (Neal IV). In return NIPCO entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to NIPCO all of NIPCO's capacity and energy requirements in excess of the power and energy available to NIPCO from the Western Area Power Administration.

Basin Electric and Corn Belt Power Cooperative (Corn Belt), one of Basin Electric's member cooperatives, negotiated a power supply contract which provides that Corn Belt will sell to Basin Electric Corn Belt's 73 MW of uncommitted capacity and associated energy from Unit No. 4 of the George Neal Generating Station (Neal IV). In return, Corn Belt entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to Corn Belt all of Corn Belt's capacity and energy requirements in excess of the power and energy available to Corn Belt from the Western Area Power Administration.

7. Chamberlain Wind Project: Basin Electric, in partnership with East River Power Cooperative, has constructed a wind energy project near Chamberlain, South Dakota. The 2.6 megawatt capacity project was placed into commercial service in January 2002. The energy is delivered to members as part of Basin Electric's overall power supply.
8. Minot Wind Project: Basin Electric, in partnership with Central Power Electric Cooperative, has constructed a wind energy project 14 miles south of Minot, North Dakota. The 2.6 megawatt capacity wind project was placed into commercial service in February 2002. Three additional turbines were added in December 2009 for a total output of 7.1 megawatts. The energy is delivered to members as part of Basin Electric's overall power supply.
9. PrairieWinds 1: Basin Electric, in partnership with PrairieWinds ND 1 Inc., has constructed a wind energy project of 77 turbines near Minot, North Dakota. The 115.5 MW capacity wind project was placed into commercial service in December, 2009.
10. Crow Lake Wind Project: Basin Electric, in partnership with Prairie Winds SD1 Inc., South Dakota Wind Partners and Mitchell Technical Institute, has constructed a wind energy project of 108 turbines near White Lake, South Dakota. The 162 MW capacity wind project was placed into commercial service. Basin Electric's subsidiary, Prairie Winds SD1, owns 100 turbines or 150 MW. Basin Electric has a purchase power contract for all 108 turbines or 162 MW from the Crow Lake Wind Project.
11. Walter Scott 3 and 4: Basin Electric and Corn Belt Power Cooperative (Corn Belt), one of Basin Electric's member cooperatives, negotiated a power supply contract which provides that Corn Belt will sell to Basin Electric Corn Belt's 26 MW of uncommitted capacity and associated energy from Unit No. 3 and 45 MW of uncommitted capacity and associated energy from Unit No. 4 of the Walter Scott

Energy Center. In return, Corn Belt entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to Corn Belt all of Corn Belt's capacity and energy requirements in excess of the power and energy available to Corn Belt from the Western Area Power Administration.

12. Duane Arnold Energy Center: Basin Electric and Corn Belt Power Cooperative (Corn Belt), one of Basin Electric's member cooperatives, negotiated with a power supply contract which provides that Corn Belt will sell to Basin Electric Corn Belt's 62 MW of uncommitted capacity and associated energy from the Duane Arnold Energy Center. In return, Corn Belt entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to Corn Belt all of Corn Belt's capacity and energy requirements in excess of the power and energy available to Corn Belt from the Western Area Power Administration.
13. Wisdom Unit 1: Basin Electric and Corn Belt Power Cooperative (Corn Belt), one of Basin Electric's member cooperatives, negotiated a power supply contract which provides that Corn Belt will sell to Basin Electric Corn Belt's 38 MW of uncommitted capacity and associated energy from the Earl F. Wisdom Unit 1. In return, Corn Belt entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to Corn Belt all of Corn Belt's capacity and energy requirements in excess of the power and energy available to Corn Belt from the Western Area Power Administration. In accordance with the Utility Mercury and Air Toxics Standards (MATs), Unit 1 is required to stop burning coal by February 1, 2015. Corn Belt and Basin Electric are currently committed to a retrofit of Unit 1 that will switch from coal to natural gas for fuel. This retrofit is scheduled to be completed by June 1, 2014.
14. Wisdom Unit 2: Basin Electric partnered with Corn Belt Power Cooperative to build the 80 MW natural gas peaking unit near Spencer, Iowa. Basin Electric owns one half of the unit, which was placed in service in April 2004. Basin Electric purchases 87.5 % of Corn Belt's owned half in response to Corn Belt entering into a Wholesale Power Contract; therefore, Basin Electric has 93.7% or 75 MW from the 80 MW combustion turbine.
15. Groton Generation Station: Basin Electric commissioned Groton Unit 1 in 2006 and Unit 2 in 2008. These LMS 100 natural gas units provide peaking power. Unit 1 has a winter rating of 98 MW and Unit 2 has a winter rating of 97 MW.
16. Culbertson Generation Station: Basin Electric commissioned Culbertson Unit 1 in 2010. The LMS 100 natural gas unit provides peaking power. The unit has a winter rating of 91 MW.
17. Deer Creek Station: Basin Electric commissioned the Deer Creek Station in August of 2012. The unit is a combined cycle natural gas facility that provides intermediate power. The unit has a winter rating of 300 MW.
18. Western Native American Purchase: Basin Electric receives a Native American Allocation of 37 MW in the winter and 38 MW in the summer season. This allocation is a result of congressional action that made federal power available to

the Native Americans.

19. Other Short-Term Resources: Basin Electric has also entered into a number of short-term purchase agreements to meet contractual power supply obligations. Due to the relatively short duration of these arrangements no specifics are provided.
20. Long-Term Resource: Basin Electric has entered into a long-term purchase agreement with NextEra Energy Resources to meet contractual power supply obligations. A 40 megawatt wind energy project is located just west of Edgeley, ND; two 49.5 MW wind energy projects are located near Wilton, ND; a 40 megawatt wind energy project is located near Highmore, SD; a 99 MW wind energy project is located near Groton, SD; and a 100 MW wind energy project is located near Baldwin, ND. Basin Electric also entered into a long-term purchase agreement with the City of Madison which provides 10 MW of peaking power from a diesel unit at Madison, SD. Basin Electric has a purchase power agreement with Ormat Industries for eight 5.5 MW waste heat recovery units. Three sites are in North Dakota near St. Anthony, Manning, and Zeeland. Three sites are in South Dakota, one in Montana and one in Minnesota. Basin Electric also purchases the output from the following generating facilities from its member cooperative Corn Belt, 25 MW from the Webster City, IA combustion turbine; 13 MW from the diesel generators at Estherville, IA; 3.8 MW from the diesel generators at Pocahontas, IA; 10 MW from the combustion turbine located at Spencer, IA; and from the following wind generating projects, 7.3 MW of Hancock County, 16.8 MW of Crosswinds, 10.5 MW from Lakota and 10.5 MW from Superior, all located within Iowa. Basin Electric also has long term purchases from Minnesota Power for 100 MW, 30 MW from Municipal Energy Agency of Nebraska, 50 MW from Heartland Consumers Power District, 50 MW from Pacific Power Light, 50-200 MW from Minnkota Electric Power Cooperative, 25 MW of capacity from Great River Energy and 25 MW of capacity from Xcel Energy that all expire between 2014 and 2020.
21. Future Power Supply: For discussion of future power supply, please refer to Section B (Energy Conversion Facilities Under Construction) and Section D (Proposed Energy Conversion Facilities During the Next Ten-Year Time Period).

The resources available to Basin Electric to serve its members' west-side requirements are as follows:

1. Laramie River Station: The Laramie River Station capacity that Basin Electric will receive from Unit 2 and Unit 3 is 675 MW (net).
2. Miles City DC Tie: Basin Electric and the Western Area Power Administration have jointly constructed a 200 MW back-to-back, AC-DC-AC tie built at Miles City, MT. This tie, which provides a 40% capacity entitlement, enables Basin Electric to serve Central Montana Electric Power Cooperative Inc., a Class A member with electrical loads located primarily west of the east-west ties, using capacity from east-side resources such as Antelope Valley Station. Basin Electric currently has rights for 183 MW in an east-west direction only.

3. Rapid City DC Tie: Basin Electric and Black Hills Power, Inc. have jointly constructed a 200 MW asynchronous tie at Rapid City, SD. This tie enables Basin Electric to serve load located west of the east-west ties, using capacity and/or energy from east side resources and vice versa, load located east of the east-west ties, using capacity and/or energy from west side resources. The Basin Electric ownership percentage is 65% and the Black Hills Power, Inc. ownership percentage is 35%. Currently, Basin Electric has rights to 130 MW of the tie.
4. Stegall (David Hamil) DC Tie: Tri-State G&T Association constructed a 110 MW asynchronous tie at Stegall, NE. Basin Electric has acquired all rights to this tie. This enables Basin Electric to serve load located west of the east-west ties, using capacity and/or energy from east side resources and vice versa, load located east of the east-west ties, using capacity and/or energy from west side resources.
5. Wyoming Distributed Generation: The Wyoming Distributed Generation consists of 9 peaking units located at 3 sites; Arvada, Hartzog and Barber Creek. These units are natural gas fired units with a total net output of 45 MW summer and 54 MW winter. These units were released for commercial operation in 2002. These units currently are utilized reserves for Basin Electric's west side electrical requirements.
6. Dry Fork Station: The Dry Fork Station is a 405 MW (net) coal fired power plant located 10 miles north of Gillette, Wyoming. This station was released for commercial operation in 2011. Basin Electric owns 92.9% of the station or 376 MW.

The load values contained in Exhibit 2 were obtained from the econometric based load forecast. These loads have been adjusted to an at-generator system coincident basis by allowing for reserves, on-peak losses and system diversity as outlined in Exhibit 3.

1. Basin Electric has no concentrated load centers due to the regional and rural nature of the total load. The fuel sources and transportation facilities for existing and future plants are as follows:

<u>Plant</u>	<u>Fuel Source</u>	<u>Transportation</u>
Leland Olds Station	ND Lignite/Wyoming (PRB) Coal	Rail
Spirit Mound Station	Oil	Pipeline
Laramie River Station	Wyoming (PRB) Coal	Rail
Antelope Valley Station	ND Lignite/Wyoming (PRB) Coal	Mine Mouth/Rail
Minot Wind Project	Wind	N/A
Wyoming Distributed Generation	Natural Gas	Pipeline
Wisdom Unit 2	Natural Gas/Fuel Oil	Pipeline
Chamberlain Wind Project	Wind	N/A
Groton Generation Station	Natural Gas	Pipeline
PrairieWinds 1 Wind Project	Wind	N/A
Crow Lake Wind Project	Wind	N/A
Culbertson Generation Station	Natural Gas	Pipeline
Deer Creek Station	Natural Gas	Pipeline
Dry Fork Station	Wyoming (PRB) Coal	Mine Mouth

2. Pursuant to federal and state laws, Basin Electric will examine all alternatives capable of producing an adequate and reliable source of energy for its member cooperatives.

Specific alternatives selected will be evaluated considering environmental, engineering and economic factors. Additional facilities, transmission and generation will be designed and operated in accordance with state and federal standards.

EXHIBIT 1

**U.S. Department of Energy Form EIA-923
(distributed only to the Public Services Commission)**

NOTICE: This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and data protections see the provision on sanctions and the provision concerning confidentiality of information in the instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

SCHEDULE 1. IDENTIFICATION

Survey Contact

Contact	Joseph Leingang	Submit By	300002472
Title	Director of Fuels	Submit Date	16-APR-13
Address	1717 E. Interstate Avenue	Accept By	
		Accept Date	
City/State/Zip	Bismarck	ND	58503
Email	jleingang@becpc.com	Phone	(701) 557-5648
		Fax	(701) 557-5144

Supervisor of Contact Person for Survey

Contact	Terry Retterath		
Title	Industrial Engineer III		
Address	1717 E. Interstate Avenue		
City/State/Zip	Bismarck	ND	58503
Email	trtat@becpc.com	Phone	(701) 223-0441
		Fax	(701) 557-5144

Report For

Company Name	Basin Electric Power Coop		
Plant Name	Antelope Valley		
Plant ID	6469	Plant County	Mercer
Plant Address	Hwy 200		
Plant City	Beulah	Plant State	ND

Regulated	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
CHP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHP Efficiency	<input type="checkbox"/>	

For contact detail go to <http://www.eia.doe.gov/oss/forms.html#eia-923>

SCHEDULE 6. NONUTILITY ANNUAL SOURCE AND DISPOSITION OF ELECTRICITY
(Instructions for SCHEDULE 6 are on page 13)

SCHEDULE 6 collects calendar year data (no monthly detail).
Annual data are due by March 30 following the reporting year.
Report all generation in **megawatthours (MWh)** rounded to a whole number.

- | | |
|--------------------------------|--|
| (1) Gross Generation (Annual) | (4) Station Use |
| (2) Other Incoming Electricity | (5) Direct Use |
| | (6) Total Facility Use (4 + 5) |
| | (7) Retail Sales to Ultimate Customers |
| | (8) Sales for Resale (MWh) |
| | (9) Other Outgoing Electricity |
| (3) Total Sources (1 + 2) | (10) Total Disposition (6 + 7 + 8+ 9) |

Total Sources must equal Total Disposition (3 = 10)

Plants that cannot separate Station Use and Direct Use may enter zero in Station Use and the sum of Station Use and Direct Use in the Direct Use field.

U.S. Department of Energy
Energy Information Administration
Form EIA-923

EIA923 Power Plant Operations Report

Year: **2012** Plant: **6469** **Antelope Valley**

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 7. ANNUAL REVENUES FROM SALES FOR RESALE
(Instruction for SCHEDULE 7 are on page 14.)

SCHEDULE 7 is to be completed by respondents who entered a positive amount on SCHEDULE 6, Disposition of Electricity, Item 8, Sales for Resale. Annual data are due by March 30 following the reporting year.

Sales for Resale is energy supplied to other electric utilities, cooperatives, municipalities, Federal and State electric agencies, or other entities for resale to end-use consumers.

Annual Revenues from Sales for Resale (in thousand dollars)

SCHEDULE 8. PART B. FINANCIAL INFORMATION
 (Instructions for SCHEDULE 8 PART B are on page 15.)

If actual data are not available, provide an estimated value.

Operation and Maintenance (O&M) Expenditures During Year (Thousand Dollars)

Type	(1) Fly Ash	(2) Bottom Ash	(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Pollution Abatement	(6) Total (1 + 2 + 3 + 4 + 5)
Collection	999	782	16,498		1,626	19,905
Disposal						0
Other						0

Capital Expenditures for New Structures and Equipment During Year, Excluding Land and Interest Expense (Thousand Dollars)

Type	(7) Air Pollution Abatement	(8) Water Pollution Abatement	(9) Solid/Contained Waste	(10) Other Pollution Abatement
Amount	365			365

Byproduct Sales Revenue During Year (Thousand Dollars)

Type	(11) Fly Ash	(12) Bottom Ash	(13) Fly and Bottom Ash Sold Intermingled	(14) Flue Gas Desulfurization	(15) Other Byproduct Revenue	(16) Total (11+12+13+14+15)
Amount	412					412

U.S. Department of Energy
Energy Information Administration
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EIA923 Power Plant Operations Report

Year: **2012** Plant: **6469** **Antelope Valley**

Form Approval
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SCHEDULE 8. PART C. BOILER INFORMATION NITROGEN OXIDE EMISSION CONTROLS
(Instructions for SCHEDULE 8 PART C are on page 16.)

Complete a separate row for each boiler.

Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric Generator Report."

No NOX Controls

Boiler ID	NOx Control In-Service (hours)	NOx Emission Rate (lbs/MMBtu)	
		Entire Year	May through September
B1	6,166	.33	.33
B2	8,562	.36	.36

EIA923 Power Plant Operations Report

Year: **2012** Plant: **6469** **Antelope Valley**

SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, MONTHLY OPERATIONS

(Instructions for SCHEDULE 8 PART D are on page 16.)

Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
 Complete a separate row for each cooling system.

Cooling System ID	Status	Chlorine added to Cooling Water (1000 lbs)	Hours in Service	Average Annual Rate of Cooling Water (to nearest 0.1 ft ³ /sec)				Estimation	Maximum Cooling Water Temperature at Intake (F)		Maximum Cooling Water Temperature at Discharge Outlet (F)		Estimation
				Diversion	Withdrawal	Discharge	Consumption		Monthly Avg	Monthly Max	Monthly Avg	Monthly Max	
Month 1													
CC1	OP	5	740		6.8	0	6.8	2	34	35			1
CC2	OP	5	744		6.7	0	6.7	2	34	35			1
Month 2													
CC1	OP	5	696		7.9	0	7.9	2	33	34			1
CC2	OP	5	696		7.7	0	7.7	2	33	34			1
Month 3													
CC1	OP	5	743		6.7	0	6.7	2	37	38			1
CC2	OP	5	743		6.7	0	6.7	2	37	38			1
Month 4													
CC1	OP	5	720		7.1	0	7.1	2	44	45			1
CC2	OP	5	644		6.4	0	6.4	2	44	45			1
Month 5													
CC1	OP	3	379		4.3	0	4.3	2	50	50			1
CC2	OP	5	559		6.3	0	6.3	2	50	50			1
Month 6													
CC1	OP	6	720		8.8	0	8.8	2	55	56			1
CC2	OP	6	720		8.1	0	8.1	2	55	56			1
Month 7													
CC1	OP	7	742		9	0	9	2	67	68			1
CC2	OP	7	744		8.8	0	8.8	2	67	68			1
Month 8													
CC1	OP	6	744		8.1	0	8.1	2	71	71			1
CC2	OP	6	744		8.2	0	8.2	2	71	71			1
Month 9													
CC1	OP	6	720		7.8	0	7.8	2	65	66			1

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CC2	OP	5	695	7.3	0	7.3	2	65	66	1
Month 10										
CC1	OP	5	704	6.5	0	6.5	2	59	59	1
CC2	OP	5	743	6.8	0	6.8	2	59	59	1
Month 11										
CC1	OP	5	720	6.9	0	6.9	2	43	43	1
CC2	OP	5	720	6.6	0	6.6	2	43	43	1
Month 12										
CC1	OP	5	703	6.7	0	6.7	2	35	35	1
CC2	OP	5	744	6.8	0	6.8	2	35	35	1

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Energy Information Administration
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EIA923 Power Plant Operations Report

Year: **2012** Plant: **6469** **Antelope Valley**

Form Approval
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Approval Expires 12/31/2010

SCHEDULE 8. PART E . FLUE GAS PARTICULATE COLLECTION INFORMATION
(Instructions for SCHEDULE 8 PART E are on page 17)

Complete a separate row for each flue gas particulate collector.

Does not Apply

Removal Efficiency of Particulate Matter (nearest 0.1% by weight)

Flue Gas Particulate Collector ID	Status	Hours in Service	Typical Particulate Emissions Rate (nearest 0.01 lb/MMBtu)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)
BH1	OP	6,166	.02	99.9	99.9	09-1983
BH2	OP	8,562	.01	99.9	99.9	08-1986

EIA923 Power Plant Operations Report

Year: **2012** Plant: **6469** **Antelope Valley**

SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION, ANNUAL OPERATIONS
 (Instructions for SCHEDULE 8 PART F are on page 19.)

Note: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
 Complete a separate row for each Flue Gas Desulfurization Unit.

ANNUAL OPERATIONS

Does not Apply

Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)

Flue Gas Desulfurization Unit ID	FGD Unit Status	Hours In Service	Quantity of FGD Sorbent Used (to nearest 0.1 thousand tons)	Electrical Energy Consumption (MWh)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)
FGD1	OP	6,166	52.1	23,115	86.7	63.9	09-1983
FGD2	OP	8,384	52.3	27,979	86.2	85.8	08-1986

OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)

Flue Gas Desulfurization Unit ID	Feed Materials and Chemicals	Labor and Supervision	Waste Disposal	Maintenance, Materials and All Other Costs	Total
FGD1	\$4,650	\$2,220	\$528	\$1,100	\$8,498
FGD2	\$4,663	\$2,229	\$532	\$573	\$7,997

Schedule 9 Comments

Schedule	Part	Item	Comment

Purchase Type	Fuel	Schedule	Prime Mover	Equipment ID	Rpt Month	Supplier	Error Log	Error Number & Description/Override	Ranges
		8C		B1				853 Entire Year rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8C		B1				854 May to September rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8C		B2				853 Entire Year rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8C		B2				854 May to September rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8F		FGD2				852 Total O&M expenditures exceed typical expenses to operate FGD units at steam electric power plants Default	

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

NOTICE: This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and data protections see the provision on sanctions and the provision concerning confidentiality of information in the instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

SCHEDULE 1. IDENTIFICATION

Survey Contact

Contact	Joseph Leingang	Submit By	300002472
Title	Director of Fuels	Submit Date	16-APR-13
Address	1717 E. Interstate Avenue	Accept By	
		Accept Date	
City/State/Zip	Bismarck	ND	58503
Email	jleingang@bepc.com	Phone	(701) 557-5648
		Fax	(701) 557-5144

Supervisor of Contact Person for Survey

Contact	Terry Retterath		
Title	Industrial Engineer III		
Address	1717 E. Interstate Avenue		
City/State/Zip	Bismarck	ND	58503
Email	tlrat@bepc.com	Phone	(701) 223-0441
		Fax	(701) 557-5144

Report For

Company Name	Basin Electric Power Coop		
Plant Name	Leland Olds		
Plant ID	2817	Plant County	Mercer
Plant Address	Hwy 200		
Plant City	Stanton	Plant State	ND

Regulated	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
CHP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHP Efficiency	<input type="checkbox"/>	

For contact detail go to <http://www.eia.doe.gov/oss/forms.html#eia-923>

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

SCHEDULE 6. NONUTILITY ANNUAL SOURCE AND DISPOSITION OF ELECTRICITY
(Instructions for SCHEDULE 6 are on page 13)

SCHEDULE 6 collects calendar year data (no monthly detail).
Annual data are due by March 30 following the reporting year.
Report all generation in **megawatthours (MWh)** rounded to a whole number.

- | | |
|--------------------------------|--|
| (1) Gross Generation (Annual) | (4) Station Use |
| (2) Other Incoming Electricity | (5) Direct Use |
| | (6) Total Facility Use (4 + 5) |
| | (7) Retail Sales to Ultimate Customers |
| | (8) Sales for Resale (MWh) |
| | (9) Other Outgoing Electricity |
| (3) Total Sources (1 + 2) | (10) Total Disposition (6 + 7 + 8 + 9) |

Total Sources must equal Total Disposition (3 = 10)

Plants that cannot separate Station Use and Direct Use may enter zero in Station Use and the sum of Station Use and Direct Use in the Direct Use field.

U.S. Department of Energy
Energy Information Administration
Form EIA-923

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 7. ANNUAL REVENUES FROM SALES FOR RESALE
(Instruction for SCHEDULE 7 are on page 14.)

SCHEDULE 7 is to be completed by respondents who entered a positive amount on SCHEDULE 6, Disposition of Electricity, Item 8, Sales for Resale. Annual data are due by March 30 following the reporting year.

Sales for Resale is energy supplied to other electric utilities, cooperatives, municipalities, Federal and State electric agencies, or other entities for resale to end-use consumers.

Annual Revenues from Sales for Resale (in thousand dollars)

SCHEDULE 8. PART B. FINANCIAL INFORMATION
 (Instructions for SCHEDULE 8 PART B are on page 15.)

If actual data are not available, provide an estimated value.

Operation and Maintenance (O&M) Expenditures During Year (Thousand Dollars)

Type	(1) Fly Ash	(2) Bottom Ash	(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Pollution Abatement	(6) Total (1 + 2 + 3 + 4 + 5)
Collection	1,425	1,967			5	3,397
Disposal						0
Other						0

Capital Expenditures for New Structures and Equipment During Year, Excluding Land and Interest Expense (Thousand Dollars)

Type	(7) Air Pollution Abatement	(8) Water Pollution Abatement	(9) Solid/Contained Waste	(10) Other Pollution Abatement
Amount	9,331		53	

Byproduct Sales Revenue During Year (Thousand Dollars)

Type	(11) Fly Ash	(12) Bottom Ash	(13) Fly and Bottom Ash Sold Intermingled	(14) Flue Gas Desulfurization	(15) Other Byproduct Revenue	(16) Total (11+12+13+14+15)
Amount	836	148				984

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

Form Approval
OMB No. 1905-0129
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SCHEDULE 8. PART C. BOILER INFORMATION NITROGEN OXIDE EMISSION CONTROLS
(Instructions for SCHEDULE 8 PART C are on page 16.)

Complete a separate row for each boiler.

Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric Generator Report."

No NOX Controls

Boiler ID	NOx Control In-Service (hours)	NOx Emission Rate (lbs/MMBtu)	
		Entire Year	May through September
1	5,768	.24	.24
2	7,223	.31	.31

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, MONTHLY OPERATIONS

(Instructions for SCHEDULE 8 PART D are on page 16.)

Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
 Complete a separate row for each cooling system.

Cooling System ID	Status	Chlorine added to Cooling Water (1000 lbs)	Hours in Service	Average Annual Rate of Cooling Water (to nearest 0.1 ft ³ /sec)				Estimation	Maximum Cooling Water Temperature at Intake (F)		Maximum Cooling Water Temperature at Discharge Outlet (F)		Estimation
				Diversion	Withdrawal	Discharge	Consumption		Monthly Avg	Monthly Max	Monthly Avg	Monthly Max	
Month 1													
1	OP	0	744	159.9	159.9	159.7	.2	2	38	43	56	68	1
2	OP	0	744	284	284	283.7	.3	2	38	43	62	83	1
Month 2													
1	OP	0	696	164.2	164.2	164	.2	2	39	43	64	72	1
2	OP	0	696	243.6	243.6	243.3	.3	2	39	43	59	73	1
Month 3													
1	OP	0	743	158.6	158.6	158.4	.2	2	41	46	56	72	1
2	OP	0	743	138.4	138.4	138.1	.3	2	41	46	73	98	1
Month 4													
1	OP	0	720	101	101	100.9	.1	2	44	51	47	72	1
2	OP	0	720	135.4	135.4	135.2	.2	2	44	51	84	99	1
Month 5													
1	OP	0	744	153.1	153.1	152.9	.2	2	49	55	68	79	1
2	OP	0	744	274.2	274.2	273.9	.3	2	49	55	79	91	1
Month 6													
1	OP	0	623	111.3	111.3	111.1	.2	2	55	60	67	83	1
2	OP	0	720	277.4	277.4	277.1	.3	2	55	60	85	97	1
Month 7													
1	OP	0	744	151.5	151.5	151.3	.2	2	58	62	78	85	1
2	OP	0	744	288.2	288.2	287.8	.4	2	58	62	82	93	1
Month 8													
1	OP	0	744	145.9	145.9	145.7	.2	2	59	63	78	92	1
2	OP	0	744	282.7	282.7	282.3	.4	2	59	63	83	96	1
Month 9													
1	OP	0	720	148.5	148.5	148.4	1	2	59	73	81	92	1

U.S. Department of Energy
 Energy Information Administration
 Form EIA-923

EIA923 Power Plant Operations Report

Year: **2012** Plant: **2817** **Leland Olds**

Form Approval
 OMB No. 1905-0129
 Approval Expires 12/31/2010

2	OP	0	589	118.1	118.1	117.8	.3	2	59	73	69	98	1
Month 10													
1	OP	0	744	131.2	131.2	131.1	.1	2	52	65	73	91	1
2	OP	0	252	32.3	32.3	32	.3	2	52	65	52	80	1
Month 11													
1	OP	0	720	150.7	150.7	150.5	.2	2	48	53	67	80	1
2	OP	0	720	279.3	279.3	278.2	1.1	2	48	53	68	81	1
Month 12													
1	OP	0	744	142.8	142.8	142.6	.2	2	41	47	64	73	1
2	OP	0	744	282.8	282.8	281.6	1.2	2	41	47	71	77	1

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SCHEDULE 8. PART E . FLUE GAS PARTICULATE COLLECTION INFORMATION
(Instructions for SCHEDULE 8 PART E are on page 17)

Complete a separate row for each flue gas particulate collector.

Does not Apply

Removal Efficiency of Particulate Matter (nearest 0.1% by weight)

Flue Gas Particulate Collector ID	Status	Hours in Service	Typical Particulate Emissions Rate (nearest 0.01 lb/MMBtu)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)
1	OP	5,768	.02	99.8	99.8	12-1974
2	OP	7,223	.02	99.5	99.5	12-1976

SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION, ANNUAL OPERATIONS

(Instructions for SCHEDULE 8 PART F are on page 19.)

Note: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
 Complete a separate row for each Flue Gas Desulfurization Unit.

ANNUAL OPERATIONS

Does not Apply

Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)

Flue Gas Desulfurization Unit ID	FGD Unit Status	Hours In Service	Quantity of FGD Sorbent Used (to nearest 0.1 thousand tons)	Electrical Energy Consumption (MWh)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)
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OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)

Flue Gas Desulfurization Unit ID	Feed Materials and Chemicals	Labor and Supervision	Waste Disposal	Maintenance, Materials and All Other Costs	Total
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Schedule 9 Comments

Schedule	Part	Item	Comment

Purchase Type	Fuel	Schedule	Prime Mover	Equipment ID	Rpt Month	Supplier	Error Log		Ranges
							Error Number	Description/Override	
		8A					844	Total volume of fly ash is an unexpectedly high or low portion of the combined total of fly ash and bottom ash; please check. Default	
		8A					845	Form shows gypsum byproduct, but no scrubber operating hours on Schedule 8F. Default	
		8C		2			853	Entire Year rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8C		2			854	May to September rate of NOX emissions per MMBtu of fuel burned falls outside of the typical range of 0.1 to 0.3 pounds per million Btu. Default	
		8D		2	2		868	Discharge cannot be more than intake. Default	

EXHIBIT 2

Summer/Winter Loads

Basin Electric Member Loads by State

Note: Historical 1995-2012 and Forecasted 2013-2025

SUMMER Peak Demand (MW)

	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO	%	WY	%	BEPC TOTAL
1995	223.9	22.3%	235.9	23.5%	38.9	3.9%	71.6	7.1%	186.2	18.5%	21.2	2.1%	77.9	7.8%	148.9	14.8%	1004.5
1996	222.1	22.6%	220.2	22.4%	38.4	3.9%	67.0	6.8%	170.2	17.3%	27.8	2.8%	78.2	7.9%	160.7	16.3%	984.7
1997	244.0	22.6%	239.0	22.2%	41.3	3.8%	77.6	7.2%	195.5	18.1%	26.8	2.5%	82.3	7.6%	171.6	15.9%	1078.1
1998	248.7	21.8%	273.0	24.0%	47.1	4.1%	83.2	7.3%	211.3	18.6%	28.1	2.5%	84.3	7.4%	162.8	14.3%	1138.4
1999	267.9	22.4%	288.5	24.2%	52.5	4.4%	102.2	8.6%	197.4	16.5%	28.3	2.4%	83.9	7.0%	173.8	14.6%	1194.5
2000	292.6	23.0%	301.7	23.7%	53.9	4.2%	98.7	7.8%	214.9	16.9%	28.9	2.3%	82.4	6.5%	199.9	15.7%	1273.0
2001	306.5	22.2%	342.5	24.8%	58.0	4.2%	116.0	8.4%	227.3	16.5%	30.3	2.2%	81.9	5.9%	217.9	15.8%	1380.4
2002	315.3	21.3%	351.9	23.8%	57.7	3.9%	127.1	8.6%	253.5	17.1%	43.9	3.0%	94.6	6.4%	235.5	15.9%	1479.6
2003	353.0	22.9%	345.5	22.4%	57.8	3.8%	121.4	7.9%	239.1	15.5%	55.9	3.6%	114.0	7.4%	253.9	16.5%	1540.6
2004	328.8	21.2%	353.9	22.8%	55.4	3.6%	119.0	7.7%	233.4	15.0%	61.8	4.0%	130.1	8.4%	271.3	17.5%	1553.6
2005	356.6	20.7%	400.1	23.2%	62.0	3.6%	131.1	7.6%	269.7	15.7%	74.2	4.3%	131.6	7.6%	296.4	17.2%	1721.6
2006	400.0	20.5%	440.4	22.6%	71.4	3.7%	187.9	9.7%	272.9	14.0%	82.0	4.2%	134.3	6.9%	358.0	18.4%	1946.9
2007	451.9	21.9%	460.8	22.3%	91.6	4.4%	186.1	9.0%	261.6	12.7%	86.4	4.2%	135.2	6.6%	388.9	18.9%	2062.5
2008	464.6	22.5%	420.7	20.4%	87.5	4.2%	177.0	8.6%	270.1	13.1%	73.8	3.6%	142.2	6.9%	426.4	20.7%	2062.3
2009	448.3	21.4%	437.5	20.9%	101.6	4.9%	201.0	9.6%	231.5	11.1%	64.8	3.1%	145.4	7.0%	400.1	19.1%	2090.1
2010	509.1	20.5%	472.3	19.0%	181.0	7.3%	459.1	18.5%	237.9	9.6%	69.6	2.8%	145.4	5.9%	407.1	16.4%	2481.5
2011	543.4	20.8%	548.4	21.0%	169.2	6.5%	460.4	17.7%	280.3	10.8%	69.3	2.7%	139.6	5.4%	396.3	15.2%	2606.9
2012	693.0	23.1%	595.9	19.9%	206.5	6.9%	476.1	15.9%	333.4	11.1%	104.4	3.5%	207.8	6.9%	377.2	12.6%	2994.2
2013	822.8	28.2%	541.4	18.6%	146.4	5.0%	445.4	15.3%	260.0	8.9%	156.6	5.4%	186.3	6.4%	354.7	12.2%	2913.5
2014	960.2	31.0%	550.1	17.8%	151.9	4.9%	455.4	14.7%	259.7	8.4%	188.0	6.1%	186.3	6.0%	347.0	11.2%	3098.6
2015	1081.9	33.4%	556.2	17.2%	157.9	4.9%	463.7	14.3%	259.4	8.0%	192.7	5.9%	186.3	5.7%	344.2	10.6%	3242.3
2016	1170.2	33.5%	652.1	18.6%	167.5	4.8%	468.4	13.4%	260.3	7.4%	252.9	7.2%	186.3	5.3%	339.2	9.7%	3496.9
2017	1229.1	34.3%	665.0	18.6%	176.0	4.9%	472.7	13.2%	261.6	7.3%	255.7	7.1%	186.3	5.2%	333.1	9.3%	3579.5
2018	1290.8	34.5%	725.6	19.4%	184.7	4.9%	477.0	12.8%	263.1	7.0%	280.8	7.5%	186.3	5.0%	329.3	8.8%	3737.6
2019	1354.6	35.4%	739.3	19.3%	194.3	5.1%	481.5	12.6%	264.9	6.9%	283.7	7.4%	186.3	4.9%	324.4	8.5%	3829.0
2020	1415.3	36.1%	751.9	19.2%	202.2	5.2%	485.3	12.4%	267.8	6.8%	285.9	7.3%	186.3	4.8%	322.1	8.2%	3916.9
2021	1464.4	36.6%	765.8	19.2%	210.9	5.3%	489.6	12.2%	270.2	6.8%	288.7	7.2%	186.3	4.7%	321.6	8.0%	3997.5
2022	1513.3	37.1%	780.3	19.1%	221.4	5.4%	494.2	12.1%	271.5	6.7%	291.6	7.1%	186.3	4.6%	321.0	7.9%	4079.6
2023	1562.2	37.6%	795.8	19.1%	231.6	5.6%	499.2	12.0%	272.4	6.5%	294.4	7.1%	186.3	4.5%	317.8	7.6%	4159.5
2024	1611.5	38.0%	811.7	19.2%	241.9	5.7%	504.2	11.9%	273.9	6.5%	297.5	7.0%	186.3	4.4%	311.5	7.3%	4238.5
2025	1660.6	38.4%	828.1	19.2%	252.6	5.8%	509.5	11.8%	275.0	6.4%	300.3	7.0%	186.3	4.3%	308.0	7.1%	4320.5

WINTER Peak Demand (MW)

	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO	%	WY	%	BEPC TOTAL
95/96	325.8	29.4%	309.0	27.9%	51.2	4.6%	88.9	8.0%	33.3	3.0%	31.6	2.9%	77.4	7.0%	189.9	17.2%	1107.0
96/97	334.5	29.3%	302.7	26.6%	47.9	4.2%	98.5	8.6%	35.7	3.1%	30.2	2.6%	79.8	7.0%	210.7	18.5%	1140.0
97/98	324.0	30.5%	263.3	24.8%	42.2	4.0%	77.5	7.3%	35.8	3.4%	29.3	2.8%	83.5	7.9%	207.9	19.6%	1063.4
98/99	331.3	29.2%	291.8	25.8%	47.8	4.2%	109.2	9.6%	37.0	3.3%	30.4	2.7%	84.3	7.4%	201.2	17.8%	1133.1
99/00	312.3	28.8%	269.3	24.8%	47.9	4.4%	102.3	9.4%	31.0	2.9%	28.0	2.6%	83.9	7.7%	209.0	19.3%	1083.8
00/01	342.1	27.4%	328.0	26.2%	57.4	4.6%	124.6	10.0%	42.5	3.4%	33.6	2.7%	83.2	6.7%	238.7	19.1%	1250.0
01/02	312.5	26.2%	300.4	25.2%	47.1	3.9%	108.4	9.1%	37.4	3.1%	34.9	2.9%	82.4	6.9%	270.3	22.6%	1193.4
02/03	376.7	27.7%	342.3	25.1%	54.0	4.0%	127.8	9.4%	35.7	2.6%	55.0	4.0%	103.1	7.6%	267.5	19.6%	1362.2
03/04	416.9	27.5%	393.8	25.9%	59.7	3.9%	134.2	8.8%	35.6	2.3%	62.4	4.1%	122.5	8.1%	293.2	19.3%	1518.4
04/05	437.9	27.4%	416.6	26.1%	62.7	3.9%	138.7	8.7%	43.5	2.7%	64.0	4.0%	121.2	7.6%	314.4	19.7%	1598.9
05/06	462.6	26.8%	414.7	24.0%	65.8	3.8%	186.6	10.8%	48.4	2.8%	72.2	4.2%	120.8	7.0%	353.4	20.5%	1724.6
06/07	494.6	25.4%	484.4	24.9%	111.0	5.7%	211.5	10.9%	50.0	2.6%	70.6	3.6%	121.8	6.3%	402.6	20.7%	1946.4
07/08	562.7	26.3%	524.3	24.5%	113.3	5.3%	231.7	10.8%	50.0	2.3%	80.7	3.8%	123.5	5.8%	454.0	21.2%	2140.2
08/09	622.7	25.7%	633.9	26.2%	133.3	5.5%	276.1	11.4%	56.5	2.3%	78.3	3.2%	137.8	5.7%	481.0	19.9%	2419.5
09/10	627.3	23.5%	618.6	23.2%	169.0	6.3%	517.7	19.4%	58.8	2.2%	73.6	2.8%	137.2	5.1%	468.4	17.5%	2670.6
10/11	678.7	25.2%	621.6	23.0%	197.7	7.3%	468.3	17.4%	54.5	2.0%	55.5	2.1%	144.9	5.4%	476.7	17.7%	2697.7
11/12	834.7	29.5%	599.9	21.2%	180.5	6.4%	442.5	15.6%	49.3	1.7%	91.5	3.2%	179.9	6.4%	449.7	15.9%	2828.1
12/13	933.9	31.5%	633.6	21.3%	189.1	6.4%	464.2	15.6%	53.1	1.8%	117.2	3.9%	184.6	6.2%	393.3	13.2%	2968.9
13/14	1090.1	34.0%	643.1	20.1%	194.2	6.1%	475.8	14.8%	53.3	1.7%	180.6	5.6%	184.6	5.8%	385.7	12.0%	3207.4
14/15	1230.4	36.2%	658.4	19.4%	200.4	5.9%	485.0	14.3%	53.5	1.6%	204.6	6.0%	184.6	5.4%	382.1	11.2%	3399.2
15/16	1349.9	38.0%	673.6	19.0%	209.7	5.9%	490.8	13.8%	54.0	1.5%	210.8	5.9%	184.6	5.2%	377.6	10.6%	3551.0
16/17	1420.5	37.5%	774.7	20.4%	217.8	5.7%	496.0	13.1%	54.5	1.4%	271.9	7.2%	184.6	4.9%	370.8	9.8%	3790.0
17/18	1479.8	38.1%	790.7	20.4%	226.0	5.8%	501.1	12.9%	55.1	1.4%	275.3	7.1%	184.6	4.8%	367.0	9.5%	3879.5
18/19	1567.9	38.5%	856.2	21.0%	235.4	5.8%	506.5	12.4%	55.8	1.4%	301.9	7.4%	184.6	4.5%	362.7	8.9%	4071.0
19/20	1639.6	39.3%	871.2	20.9%	242.9	5.8%	511.0	12.3%	56.4	1.4%	304.4	7.3%	184.6	4.4%	360.5	8.6%	4170.8
20/21	1699.5	39.9%	887.7	20.8%	251.2	5.9%	516.1	12.1%	57.1	1.3%	307.7	7.2%	184.6	4.3%	360.0	8.4%	4264.0
21/22	1759.3	40.3%	904.8	20.8%	261.5	6.0%	521.7	12.0%	57.8	1.3%	311.1	7.1%	184.6	4.2%	359.4	8.2%	4360.2
22/23	1819.3	40.8%	923.0	20.7%	271.4	6.1%	527.7	11.8%	58.4	1.3%	314.4	7.1%	184.6	4.1%	356.5	8.0%	4455.1
23/24	1940.4	42.6%	911.9	20.0%	262.0	5.8%	526.6	11.6%	58.5	1.3%	304.4	6.7%	189.7	4.2%	359.3	7.9%	4552.7
24/25	2008.5	43.2%	931.0	20.0%	272.1	5.8%	532.6	11.4%	59.1	1.3%	308.0	6.6%	189.7	4.1%	353.2	7.6%	4654.1

EXHIBIT 3

Eastern System Summer/Winter Load Resources

SUMMER SEASON

	<u>Members' Load Projections</u>	<u>Contracted Sales to Others</u>	<u>Losses, Diversity, and Reserves</u>	<u>Total Responsibility</u>
2013	2,482	224	360	3,066
2014	2,669	227	391	3,287
2015	2,817	230	414	3,461
2016	3,078	210	441	3,730
2017	3,166	209	477	3,852
2018	3,328	208	491	4,027
2019	3,419	207	518	4,144
2020	3,509	206	532	4,247
2021	3,590	205	545	4,340
2022	3,671	204	559	4,434

WINTER SEASON

	<u>Members' Load Projections</u>	<u>Contracted Sales to Others</u>	<u>Losses, Diversity, and Reserves</u>	<u>Total Responsibility</u>
2013/14	2,678	210	388	3,276
2014/15	2,865	209	417	3,490
2015/16	3,019	208	437	3,665
2016/17	3,265	207	475	3,947
2017/18	3,357	206	496	4,059
2018/19	3,552	205	526	4,283
2019/20	3,653	204	541	4,398
2020/21	3,746	203	556	4,505
2021/22	3,842	202	570	4,614
2022/23	3,940	201	585	4,726

2013 East Resources

Summer Season											Deer		Lonesome		Webster				Waste			
	LOS	LRS	AVS	NEAL 4	WS	Wisdom 1	DAEC	SMS	Groton	Culbertson	Creek	Pioneer	Creek	Wisdom 2	Madison	City	Estherville	Pocahontas	Spencer	Wind	Heat	Purchases
2013	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	230
2014	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	300
2015	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	300
2016	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	450
2017	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	400
2018	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	350
2019	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	100
2020	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	0
2021	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	0
2022	667	48	900	104	71	37	60	99	158	91	290	40	40	71	10	20.7	13	3.8	10	116.6	35.3	0

Winter Season											Deer		Lonesome		Webster				Waste			
	LOS	LRS	AVS	NEAL 4	WS	Wisdom 1	DAEC	SMS	Groton	Culbertson	Creek	Pioneer	Creek	Wisdom 2	Madison	City	Estherville	Pocahontas	Spencer	Wind	Heat	Purchases
2013/14	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	280
2014/15	667	48	900	104	72	0	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	300
2015/16	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	250
2016/17	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	250
2017/18	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	150
2018/19	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	150
2019/20	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	100
2020/21	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	0
2021/22	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	0
2022/23	667	48	900	104	72	38	62	119	195	95	300	45	45	75	10	25	13	3.8	10	275.7	39.2	0