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March 23, 2018

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Darrell Nitschke
Executive Secretary
North Dakota Public Service Commission
Department 408
600 East Boulevard
Bismarck, ND 58505-0480

**RE: NORTHERN STATES POWER COMPANY
ADVANCE PRUDENCE – 304.2 MW DAKOTA RANGE WIND
APPLICATION
CASE NO. PU-17-372
REQUEST TO POSTPONE PROCEEDING**

Dear Mr. Nitschke:

Enclosed for filing is Xcel Energy's Supplement to the October 10, 2017 Application for an Advance Determination of Prudence for Xcel Energy to build, own, and operate the 302.4 MW Dakota Range I and II wind project.

This filing contains information that is consistent with the information described in the Company's October 10, 2017 Application for Trade Secret Protection. In accordance with Section 69-02-09-02 of the North Dakota Administrative Code, a single copy of the trade secret version of this filing is being provided in a sealed envelope marked **PROTECTED INFORMATION - PRIVATE**.

Please feel free to contact me or Mr. Dave Sederquist at (701) 241-8632 (email: dave.sederquist@xcelenergy.com) should the Commission have any questions.

Sincerely,

/s/ Zeviel T. Simpser

Zeviel T. Simpser



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ZTS/jy

cc: ALJ Patrick J. Ward
Illona Jeffcoat-Sacco
Pat Fahn
Jerry Lein
John Schuh
Mitch Armstrong
Victor Schock
Ryan Long
Jim Heidell

**PUBLIC DOCUMENT –
TRADE SECRET DATA EXCISED**

STATE OF NORTH DAKOTA
BEFORE THE
NORTH DAKOTA PUBLIC SERVICE COMMISSION

Randy Christmann
Julie Fedorchak
Brian Kroshus

Chair
Commissioner
Commissioner

NORTHERN STATES POWER COMPANY ADVANCE
PRUDENCE – ACQUISITION OF 302.4 MW WIND
GENERATION APPLICATION

CASE NO. PU-17-372

SUPPLEMENT

OVERVIEW

Northern States Power Company, doing business as Xcel Energy (NSP, Xcel Energy, or the Company), submits to the North Dakota Public Service Commission (Commission) this supplement to our October 10, 2017 Application for an Advance Determination of Prudence (Application) for the Company to build, own, and operate the 302.4 MW Dakota Range I and II wind projects (“Dakota Range” or “Project”).

The purpose of this Supplement is to update the Commission regarding the impacts of the 2017 Tax Cuts and Jobs Act (TCJA) and other significant changes on the Dakota Range project and to provide updated economic data and modeling for the project that take those impacts into account. Pursuant to the letter filed with the Commission on February 5, 2018 in this Case – and the Commission’s February 14, 2018 Order postponing this proceeding – the Company and Advocacy Staff will update the record in this proceeding consistent with the information contained in this Supplement.

The TCJA reduces our overall electric costs of service and thus results in net customer benefits. It also, however, has minor offsets as it modestly increases the project-specific revenue requirement for wind projects that receive federal tax credits. In addition, and since filing our initial Application, we have obtained greater cost certainty with respect to transmission upgrades and have continued to seek opportunities to improve the project economics on behalf of our customers:

- We received a favorable reduction in expected transmission upgrade costs to the project;
- We negotiated a higher-than-expected sales tax rebate grant from the State of South Dakota; and
- We have contracted for lower periodic O&M costs than previously forecasted.

The net impact of the these changes is a project that delivers a Levelized Cost of Energy (LCOE) over a 25 year period of [TRADE SECRET BEGINS TRADE SECRET ENDS]. This LCOE is lower than our expected 2021 delivered cost of coal or natural gas, represents a fuel cost savings for our customers, and results in a base Present Value of Revenue Requirement (PVRR) savings of \$167 million system-wide and \$9 million for our North Dakota customers. While the updated LCOE is [TRADE SECRET BEGINS TRADE SECRET ENDS] higher than our pre-TCJA filing, the project remains highly competitive and will result in substantial and lasting benefits for our customers and the state.

Additionally, project certainty with respect to transmission remains unchanged and, as noted above, the costs associated with transmission improved due to the MISO restudy. Unlike other projects under development in MISO (including some projects in our own 1,550 MW portfolio), Dakota Range has an executed Generator Interconnection Agreement and a known assignment of transmission upgrades. As such, we believe Dakota Range represents a prudent project to add to our generation portfolio.

For all of these reasons, we continue to believe that Dakota Range is prudent, and we respectfully request that the Commission grant an Advanced Determination of Prudence.

SUPPLEMENT

A. Tax Cuts and Jobs Act

On December 22, 2017, the President signed the TCJA, which enacted significant changes to the Internal Revenue Code. The implications of the TCJA are complex. We recently provided a detailed discussion of the law and its impacts on our business in response to the Commission’s January 10, 2018 Order Initiating Investigation in Case No. PU-17-490. One category of impacted costs is production tax credits. Importantly, the TCJA does not actually change the value of PTCs. They will continue to be earned at \$0.024/kWh, adjusted annually for inflation and year of in-service (that said, Dakota Range is an 80% PTC project so the PTC value is

withdrawal of a 300 MW wind project in Iowa. MISO published the restudy on November 21, 2017. Our initial Application included a total of **[TRADE SECRET BEGINS TRADE SECRET ENDS]** in transmission upgrades and interconnection costs for Dakota Range. However, the updated study results assigned a smaller amount of transmission upgrades to Dakota Range, resulting in lower expected transmission costs to bring the project online. Based on those results, we now estimate only **[TRADE SECRET BEGINS TRADE SECRET ENDS]** in transmission upgrades and interconnection costs. This amounts to a **[TRADE SECRET BEGINS TRADE SECRET ENDS]** reduction in upfront capital for the project, which reduces the LCOE by **[TRADE SECRET BEGINS TRADE SECRET ENDS]**.

Second, on October 5, 2017, we applied to the South Dakota Board of Economic Development for a Reinvestment Payment Program grant in connection with the Dakota Range Project. In our initial Application, which we filed on September 26, 2017, we assumed a grant amount of approximately **[TRADE SECRET BEGINS TRADE SECRET ENDS]**. On November 15, 2017, we received a larger grant than we initially expected from the Board of Economic Development up to a maximum amount of **[TRADE SECRET BEGINS TRADE SECRET ENDS]**. This amounts to a **[TRADE SECRET BEGINS TRADE SECRET ENDS]** reduction to our estimate of initial capital for the project, which reduces the LCOE for the project by another **[TRADE SECRET BEGINS TRADE SECRET ENDS]**.

Finally, earlier this year we began testing the market for O&M services, and this update better reflects the improved pricing from our initial filing. **[TRADE SECRET BEGINS**

ENDS] **TRADE SECRET**

Taken together, these cost reductions serve to offset more than **[TRADE SECRET BEGINS TRADE SECRET ENDS]** of the increase in project revenue

requirement caused by the TCJA, with a resulting LCOE for the project of [TRADE SECRET BEGINS TRADE SECRET ENDS].

C. Updated Economic Modeling

We updated the inputs to the Strategist resource planning model to reflect the TCJA impacts and cost reductions discussed above. In addition, we updated three other assumptions impacted by the TCJA, including the weighted average cost of capital, the tax impact on the revenue requirements of new generic resource investments, and the capacity credit.² All other assumptions are the same as those discussed in our initial Application.

As discussed in our initial Application, the Strategist planning model simulates the operation of the NSP System and estimates the cost to serve load through the life of the project. We use the model to test results under a range of input assumptions. To assess their impact on customer costs, we simulated the operation of the NSP System through 2053, with and without the addition of the 302.4 MW Dakota Range wind project proposed in this filing. All of our analysis assumes the addition of the 1,550 MWs of wind generation currently before the Commission in Case No. PU-17-120.³ Therefore, the results of the Strategist analysis provide the incremental savings due solely to the addition of the Dakota Range project. The results of the updated Strategist analysis continue to show that this new wind resource will result in net savings for our customers under all sensitivity tests conducted.

Table 1, below, shows the updated present value of revenue requirement (PVRR) savings as well as the PVRR savings from our original analysis.

² The capacity credit corresponds to the cost of a generic CT.

³ On March 19, 2018, the Company and Advocacy Staff requested that the Commission postpone further consideration of the 1,550 MW Wind Portfolio until such time as the Company can update its economic analysis to include the impacts of the TCJA.

Table 1: Incremental System PVRR Savings from Reference Case (millions)

	PVRR						Preferred Plan Renewables
	Base	Markets Off	Low Gas Price	High Gas Price	+5% Cap Factor	-5% Cap Factor	
Reference Case	0	0	0	0	0	0	0
Dakota Range - orig.	(182)	(132)	(106)	(274)	(245)	(119)	(133)
Dakota Range - suppl.	(167)	(118)	(91)	(259)	(229)	(105)	(122)

As shown above, the proposed wind project continues to provide significant benefits in all scenarios. The \$167 million PVRR savings in the Base Case shown above compares to an initially projected PVRR savings of \$ 182 million.

To illustrate how the costs (savings) change over time, Figure 1 below charts both the original and the supplemental filing annual costs (savings) impacts of the Dakota Range project as compared to the Reference Case for the PVRR Base assumptions.

Figure 1: Annual Costs (Savings) Compared to Reference Case

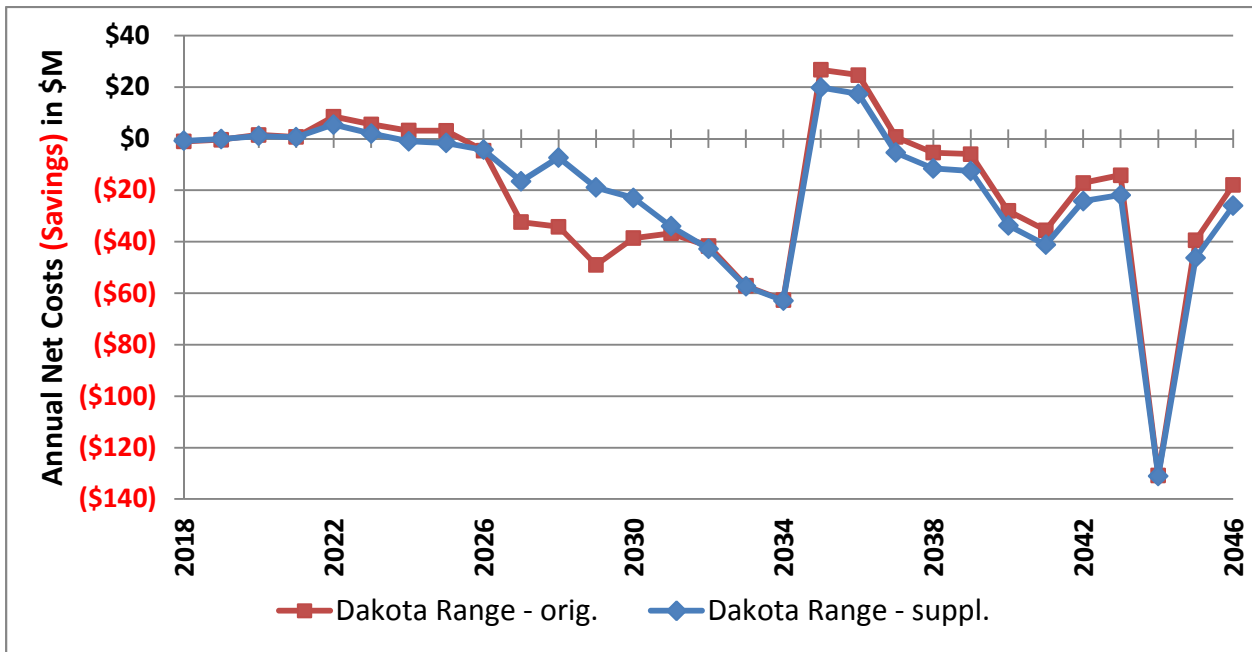


Table 2 shows the original and updated forecasted incremental annual revenue requirement impact of the wind additions through 2027. The values in the table reflect incremental costs or savings as compared to the Reference Case where Dakota Range is not included.

Table 2: Incremental System Revenue Requirement Impact Proposed Project – Initial (\$millions)

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>
New Ownership Wind, 300MW	(0.8)	(0.1)	1.0	2.0	20.6	20.3	19.7	20.1	19.9	21.2
Capacity Cost Savings	0.0	0.0	0.0	0.0	(0.0)	(0.0)	(0.0)	0.0	0.0	(15.4)
Production Cost Savings	0.0	0.0	0.0	(0.8)	(12.8)	(13.2)	(8.8)	(14.1)	(6.4)	(1.1)
MISO Purchases	0.0	0.0	0.0	(0.6)	(2.2)	(2.5)	(6.8)	(3.4)	(6.7)	(11.0)
MISO Sales	0.0	0.0	0.0	(0.5)	(5.9)	(8.5)	(11.1)	(10.4)	(17.4)	(16.7)
Wind Congestion Costs*	0.0	0.0	0.0	0.3	3.4	3.5	3.6	3.6	3.7	3.8
Wind Integration Costs	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
Wind Coal Cycling Costs	0.0	0.0	0.0	0.1	1.7	1.8	1.8	1.8	1.9	1.9
Net Costs	(0.8)	(0.1)	1.0	0.5	5.4	2.0	(1.0)	(1.7)	(4.3)	(16.6)

Table 3: Incremental System Revenue Requirement Impact Proposed Project – Supplemental

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>
New Ownership Wind, 300MW	(0.8)	(0.1)	1.0	2.0	20.6	20.3	19.7	20.1	19.9	21.2
Capacity Cost Savings	0.0	0.0	0.0	0.0	(0.0)	(0.0)	(0.0)	0.0	0.0	(15.4)
Production Cost Savings	0.0	0.0	0.0	(0.8)	(12.8)	(13.2)	(8.8)	(14.1)	(6.4)	(1.1)
MISO Purchases	0.0	0.0	0.0	(0.6)	(2.2)	(2.5)	(6.8)	(3.4)	(6.7)	(11.0)
MISO Sales	0.0	0.0	0.0	(0.5)	(5.9)	(8.5)	(11.1)	(10.4)	(17.4)	(16.7)
Wind Congestion Costs*	0.0	0.0	0.0	0.3	3.4	3.5	3.6	3.6	3.7	3.8
Wind Integration Costs	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
Wind Coal Cycling Costs	0.0	0.0	0.0	0.1	1.7	1.8	1.8	1.8	1.9	1.9
Net Costs	(0.8)	(0.1)	1.0	0.5	5.4	2.0	(1.0)	(1.7)	(4.3)	(16.6)

* Congestion Costs reflected as cost adder to wind generation rather than lower generator LMP.

Table 3, below, shows the updated forecasted incremental impact on average monthly bills in North Dakota. It is important to note that the recovery mechanism used to recover the costs of this wind addition will impact the actual timing of the recovery and the actual class allocation. We have provided an estimated impact below.

Table 3: Updated ND Forecasted Incremental Impact on Monthly Bills

Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Residential	(\$0.01)	(\$0.00)	\$0.02	\$0.01	\$0.09	\$0.01	(\$0.01)	(\$0.02)	(\$0.06)	(\$0.29)
Commercial Non Demand	(\$0.02)	(\$0.00)	\$0.02	\$0.01	\$0.12	\$0.01	(\$0.02)	(\$0.03)	(\$0.08)	(\$0.35)
C&I Demand	(\$0.68)	(\$0.11)	\$0.88	\$0.43	\$4.41	\$0.15	(\$0.94)	(\$1.45)	(\$3.57)	(\$12.21)
Lighting	(\$0.01)	(\$0.00)	\$0.01	\$0.00	\$0.04	(\$0.01)	(\$0.03)	(\$0.03)	(\$0.06)	(\$0.03)

CONCLUSION

We appreciate the opportunity to provide this Supplement to the Commission and parties. For all of the reasons discussed above, we continue to believe that Dakota Range wind project will provide numerous and substantial cost savings to our customers and system. We therefore respectfully reaffirm our earlier request that the Commission make an advance determination of the prudence of the 302.4 MW Dakota Range wind project.

Dated: March 23 2018

Northern States Power Company

Respectfully submitted,

/s/ David Sederquist