



414 Nicollet Mall
Minneapolis, MN 55401

December 29, 2020

—Via Electronic Filing—

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: INFORMATIONAL UPDATE
PRAIRIE ISLAND FUEL STORAGE
DOCKET NO. E002/CN-08-510

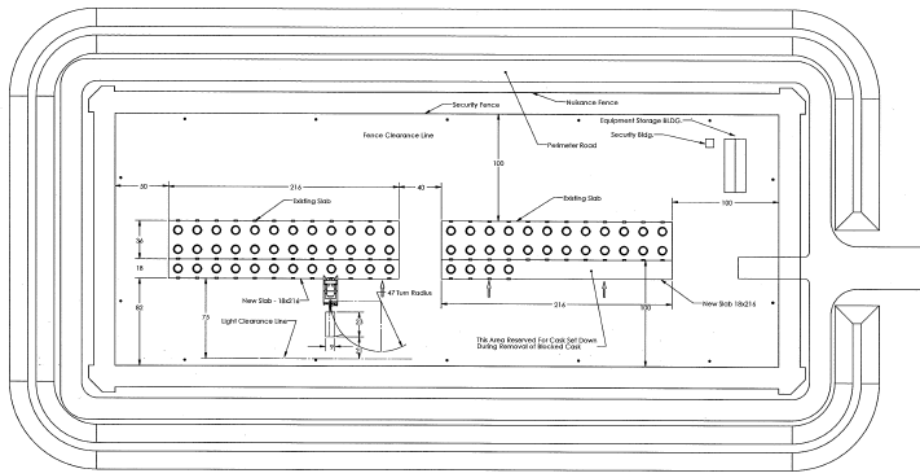
Dear Mr. Seuffert:

For informational purposes, Northern States Power Company d/b/a Xcel Energy (the Company) provides this update on our addition of dry cask storage at the Prairie Island Nuclear Generation Plant (PINGP) consistent with the Commission's December 18, 2009 Order (the Order) in the above-referenced docket.

The Order authorized the Company's expansion of dry cask spent fuel storage at the PINGP Independent Spent Fuel Storage Installation (ISFSI) pursuant to Minn. Stat. §§ 116C.83 and 216B.243, as well as Minn. R. 7855.0010, *et seq.* Specifically, the Commission authorized the Company to increase the storage capacity of the ISFSI by up to 35 casks, from 29 to 64.

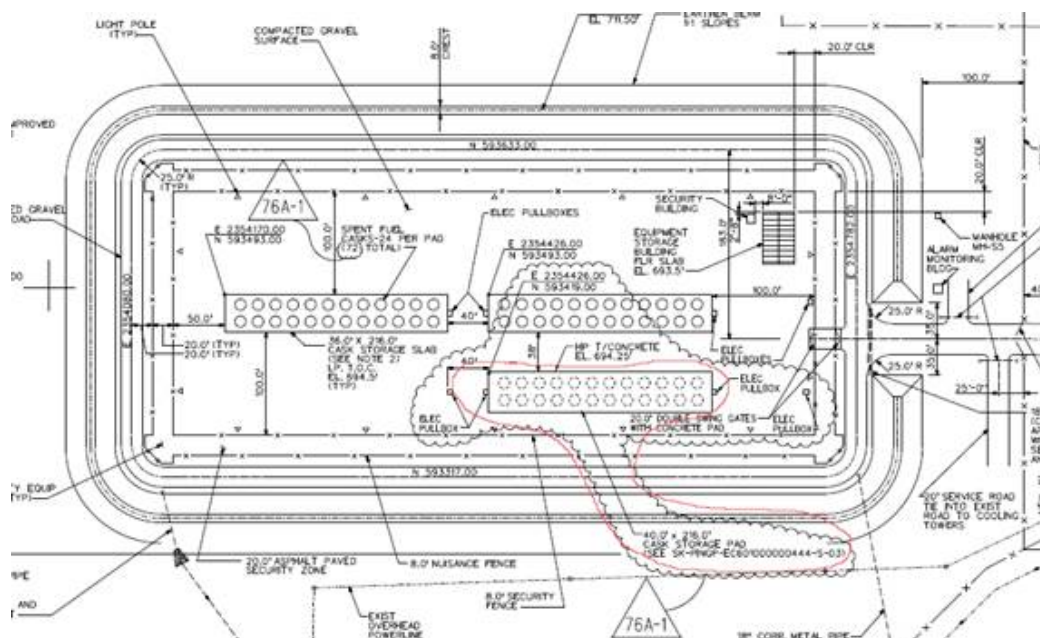
As described in the Company's application for the CON, the existing design of the ISFSI includes enough space on its concrete pads to accommodate 48 casks, sufficient to continue operations through 2022. But, to support the additional 16 casks authorized by the Order, as well as any anticipated casks required for eventual decommissioning, the Company proposed to build two more reinforced concrete pads adjoining the existing pads. Each new pad would measure 216 feet long, 18 feet wide and 3 feet thick. Figure 1 below depicts these proposed new pads immediately to the south of the existing pads.

Figure 1 – Concrete Pad Design Proposed in 2008 CON Application



Since receiving authorization to increase the dry cask spent fuel storage capacity of the ISFSI, the Company has investigated alternate concrete pad arrangements to increase efficiency, improve worker safety, and potentially decrease costs. Based on this review, the Company has decided to switch from the original design proposed with the May 16, 2008 CON application of two single-wide 18 ft. x 216 ft. x 3 ft. thick pads (7,776 sq. ft.) located immediately South and adjacent to the existing storage pads with space for twenty four (24) TN40HT casks (as shown above in Figure 1) to one double-wide 40 ft. x 216 ft. x 3 ft. thick pad (8,640 sq. ft.) located thirty eight (38') feet south of the existing storage pads with space for twenty four (24) TN40HT casks (as shown below in Figure 2).

Figure 2 – Current Concrete Pad Design



We are making these changes for a variety of reasons. First, the shape change from two single-wide pads to one double-wide pad optimizes the use of space within the ISFSI, creating greater opportunities for future pad additions. Second, by changing from a 36-foot wide pad to a 40-foot wide pad provides flexibility for potential future storage technologies which may be placed on the pad. Third, moving the pad location from immediately south of the existing pads to 38 feet south of the pads minimizes risks, costs and radiation doses for workers associated with construction work next to loaded pads. Finally, the updated design for the pad leverages the design of the two existing pads.

On October 29, 2020, we received approval for this design from the Nuclear Regulatory Commission. We enclose a copy of the letter notifying the Company of this approval as Attachment A. Based on this approval, we intend to begin construction on the new pad in the next few months.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list. Please contact me at bria.e.shea@xcelenergy.com or (612) 330-6064 if you have any questions regarding this filing.

Sincerely,

/s/

BRIA SHEA
DIRECTOR, REGULATORY & STRATEGIC ANALYSIS

c: Service List



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 29, 2020

Mr. Christopher P. Domingos,
Site Vice President
Prairie Island Nuclear Generating Company
Northern States Power Company – Minnesota
1717 Wakonade Drive East
Welch, Minnesota 55089-9642

SUBJECT: AMENDMENT NO. 11 TO MATERIALS LICENSE NO. SNM-2506 FOR THE
PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE
INSTALLATION (EPID NO. L-2019-LLA-0169)

Dear Mr. Domingos:

By letter dated July 26, 2019, as supplemented April 29, 2020 and June 10, 2020, Northern States Power Company (NSPM) submitted proposed Amendment No. 11 to Special Nuclear Materials License No. 2506 for the Prairie Island Independent Spent Fuel Storage Installation. The application proposed to increase the storage capacity of the Prairie Island Independent Spent Fuel Storage Installation and sought approval for the design of a new storage pad to be built at the existing facility.

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the NSPM application, as revised and supplemented, and finds reasonable assurance that: (i) the activities authorized by the amended license can be conducted without endangering the health and safety of the public, and (ii) these activities will be conducted in compliance with the applicable regulations. NRC staff further finds the issuance of the amendment will not be inimical to the common defense and security. In connection with the issuance of the license, an environmental assessment and finding of no significant impact was noticed in the *Federal Register* on October 8, 2020 (85 *FR* 63588).

The NRC staff approved the requested license amendment and revised renewed license condition numbers 22, 23 and 24. In addition, editorial changes were made to the license. The attached amended license supersedes Special Nuclear Materials License No. SNM-2506 dated December 9, 2015. Changes made to the attached license pages are indicated by vertical lines in the right margin. The safety evaluation report and the *Federal Register* notice of issuance for the amended license are also attached.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the publicly available records component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html>.

C. Domingos

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If you have any questions regarding this matter, you may contact me at (301) 415-5722 or you may contact Chris Allen of my staff at (301) 415-6877.

Sincerely,

John B. McKirgan

Digitally signed by John B.

McKirgan

Date: 2020.10.28 11:50:52 -04'00'

John McKirgan, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-10

EPID No.: L-2019-LLA-0169

Attachments:

1. Materials License No. SNM-2506
Amendment No. 11
2. Safety Evaluation Report
3. *Federal Register*
Notice of Issuance of Amendment

C. Domingos

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SUBJECT: AMENDMENT NO. 11 TO MATERIALS LICENSE NO. SNM-2506 FOR THE PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE INSTALLATION (EPID NO. L-2019-LLA-0169)

DATED: October 29, 2020

DISTRIBUTION:

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NMSS r/f

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ADAMS Package Accession Number: ML20237F365

***via email**

OFFICE	DFM		DFM		DFM		DFM	
NAME	WAllen		WWheatley*		JWise*		JPiotter*	
DATE	9/1/2020		9/2/2020		8/24/2020		8/24/2020	
OFFICE	DFM		DFM		DFM		DFM	
NAME	ASotomayor*		RRodriguez*		TBoyce*		RChang*	
DATE	8/27/2020		8/27/2020		8/27/2020		8/27/2020	
OFFICE	DFM		OGC/HLW		DFM			
NAME	MDiaz*		PJehle		JMcKirgan			
DATE	8/24/2020		10/27/2020		10/28/2020			

OFFICIAL RECORD COPY

CERTIFICATE OF SERVICE

I, Crystal Syvertsen, hereby certify that I have this day served copies or summaries of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped
with postage paid in the United States Mail at Minneapolis,
Minnesota

xx electronic filing

Docket No. E002/CN-08-510

Dated this 29th day of December 2020

/s/

Crystal Syvertsen
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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B. Andrew	Brown	brown.andrew@dorsey.com	Dorsey & Whitney LLP	Suite 1500 50 South Sixth Street Minneapolis, MN 554021498	Electronic Service	No	OFF_SL_8-510_1
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_8-510_1
Carol	Duff	carolduff@me.com	-	728 W 4th St Red Wing, MN 55066	Electronic Service	No	OFF_SL_8-510_1
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	Yes	OFF_SL_8-510_1
Thomas P.	Harlan	harlan@mdh-law.com	Madigan, Dahl & Harlan, P.A.	222 South Ninth Street Suite 3150 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_8-510_1
Michael	Lewis	michael.lewis@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	Yes	OFF_SL_8-510_1
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Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	OFF_SL_8-510_1

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_8-510_1
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_8-510_1
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	No	OFF_SL_8-510_1
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_8-510_1