



Prairie Island Nuclear Generating Plant
1717 Wakonade Drive East
Welch, MN 55089

OCT 20 2011

L-PI-11-074
10 CFR 72.42

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Director, Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety and Safeguards
Washington, DC 20555-0001

Prairie Island Independent Spent Fuel Storage Installation
Docket No. 72-10
Materials License No. SNM-2506

Prairie Island Independent Spent Fuel Storage Installation (ISFSI) License Renewal Application

Pursuant to 10 CFR 72.42, the Northern States Power Company, a Minnesota corporation, d/b/a Xcel Energy (hereafter "NSPM") submits an application for renewal of the Prairie Island site-specific ISFSI license. The current license expires on October 31, 2013. NSPM is requesting to extend this license an additional 40 years.

Enclosure 1 to this letter contains the oath or affirmation statement required pursuant to 10 CFR 72.16(b).

Enclosure 2 to this letter contains the affidavit and withholding request, pursuant to the requirements of 10 CFR 2.390(b)(1)(iii), regarding the trade secret information contained in Enclosure 4.

Enclosure 3 to this letter contains the application for renewal of the Prairie Island ISFSI license, which was prepared in accordance with applicable provisions of 10 CFR 72, Subpart B, and NUREG-1927, "Standard Review Plan for Renewal of Spent Fuel Dry Cask Storage System Licenses and Certificates of Compliance," dated March 2011.

Enclosure 4 to this letter contains an informational copy of the latest revision of the Prairie Island ISFSI Safety Analysis Report (SAR). Designated portions of the Prairie Island ISFSI SAR contain trade secret information proprietary to Transnuclear, Inc.

Enclosure 5 to this letter contains a nonproprietary version of the Prairie Island ISFSI SAR that may be disclosed to the public.

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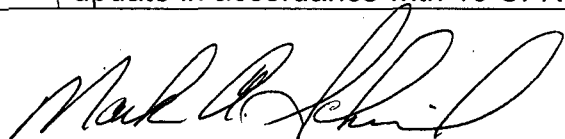
NSPM requests that the designated portions of the ISFSI SAR in Enclosure 4 be withheld from public disclosure pursuant to 10 CFR 2.390(a)(4). The drawings, analyses and methodologies designated in this report are of commercial value and the competitive position of the owner, Transnuclear Inc., would be harmed if disclosed.

The application is being submitted on CD-ROM. If there are any questions or if additional information is needed, please contact Ms. Jennie Eckholt, NSPM Fleet Licensing Engineer, at 612-330-5788.

Summary of Commitments

This letter contains one new commitment and no changes to existing commitments. In Appendix C of Enclosure 3, NSPM makes the following commitment:

	Regulatory Commitments	Due Date/Event
1	Following the issuance of the renewed materials license, the summary descriptions of the ISFSI aging management program and Time-Limited Aging Analyses provided in Appendix C of Enclosure 3 will be incorporated into the Prairie Island ISFSI Safety Analysis Report (SAR) as part of a periodic SAR update in accordance with 10 CFR 72.70(c).	First SAR update in accordance with 10 CFR 72.70(c) following issuance of renewed materials license.



Mark A. Schimmel
Site Vice President, Prairie Island Nuclear Generating Plant
Northern States Power Company - Minnesota

Enclosures (5)

cc: Administrator, Region III, USNRC
Director, Spent Fuel Project Office, USNRC
NMSS Project Manager, Prairie Island ISFSI, USNRC
NRR Project Manager, Prairie Island Nuclear Generating Plant, USNRC
State of Minnesota
Senior Resident Inspector, PINGP, USNRC

The enclosed CD-ROM contains the following files:

- 001_Encl 3_PI_ISFSI_LRA.pdf, 7,609 Kilobytes
- 002_Encl 4_PI_ISFSI_SAR_VOL1_PROP.pdf, 28,860 Kilobytes, Proprietary
- 003_Encl 4_PI_ISFSI_SAR_VOL2_PROP.pdf, 52,156 Kilobytes, Proprietary
- 004_Encl 5_PI_ISFSI_SAR_VOL1_NON PROP.pdf, 27,801 Kilobytes
- 005_Encl 5_PI_ISFSI_SAR_VOL2_NON PROP.pdf, 43,578 Kilobytes

ENCLOSURE 1

OATH OR AFFIRMATION PURSUANT TO 10 CFR 72.16

1 Page Follows

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY - MINNESOTA

PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE INSTALLATION
DOCKET NO. 72-10

REQUEST FOR RENEWAL OF
MATERIALS LICENSE No. SNM-2506

PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE INSTALLATION
LICENSE RENEWAL APPLICATION

The Northern States Power Company, a Minnesota corporation, d/b/a Xcel Energy (hereafter "NSPM"), requests the approval of the application for renewal of the Prairie Island Independent Spent Fuel Storage Installation Materials License as disclosed in the attached Enclosure 3.

This letter contains trade secret information, pursuant to 10 CFR 2.390(a)(4), in designated portions of Enclosure 4. The designated drawings, analyses, and methodologies are of commercial value and the competitive position of the owner, Transnuclear Inc., would be harmed if disclosed.

NORTHERN STATES POWER COMPANY - MINNESOTA

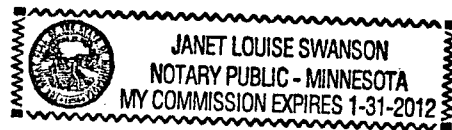
By Mark A. Schimmel

Mark A. Schimmel

Site Vice President, Prairie Island Nuclear Generating Plant
Northern States Power Company - Minnesota

State of Minnesota

County of Goodhue



On this 20 day of Oct 2011 before me a notary public acting in said County, personally appeared Mark A. Schimmel, Site Vice President, Prairie Island Nuclear Generating Plant, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of NSPM, that he knows the contents thereof, and that to the best of his knowledge, information, and belief the statements made in it are true.

Janet Louise Swanson

ENCLOSURE 2

PROPRIETARY AFFIDAVIT PURSUANT TO 10 CFR 2.390

2 Pages Follow

**AFFIDAVIT PURSUANT
TO 10 CFR 2.390**

Transnuclear, Inc.)
 State of Maryland) SS.
 County of Howard)

I, Jayant Bondre, depose and say that I am a Vice President of Transnuclear, Inc., duly authorized to execute this affidavit, and have reviewed or caused to have reviewed the information which is identified as proprietary and referenced in the paragraph immediately below. I am submitting this affidavit in conformance with the provisions of 10 CFR 2.390 of the Commission's regulations for withholding this information.

The information for which proprietary treatment is sought is contained in the Prairie Island Independent Spent Fuel Storage Installation (ISFSI) Safety Analysis Report (SAR), (Docket Number: 72-10, License Number: SNM-2506), Revision 14, as listed below:

1. SAR Appendix 3A, "TN-40 Cask Criticality Evaluation Computer Input"
2. SAR Appendix 7B, "Shielding Evaluation Computer Input"
3. Portions of SAR Section A1.5, SAR Drawings TN40HT-72 series, as follows:
 - Transnuclear Drawing TN40HT-72-2, Revision 1
 - Transnuclear Drawing TN40HT-72-3, Revision 0
 - Transnuclear Drawing TN40HT-72-4, Revision 0
 - Transnuclear Drawing TN40HT-72-5, Revision 0
 - Transnuclear Drawing TN40HT-72-6, Revision 0
 - Transnuclear Drawing TN40HT-72-7, Revision 0
 - Transnuclear Drawing TN40HT-72-8, Revision 0
 - Transnuclear Drawing TN40HT-72-9, Revision 0
 - Transnuclear Drawing TN40HT-72-21, Revision 3, Sheets 1,3,5,6, and 7
 - Transnuclear Drawing TN40HT-72-22, Revision 3
4. Portions of SAR Section A4.2.3.8, "Analysis of Fuel Cladding under Accident Condition Impact Loading," plus Tables A4.2-25 through -26 and Figures A4.2-5 through -12.
5. Portions of SAR Section A3.3.2.2.8, "Heat Generation Rate as a Function of Spent Fuel Parameters."
6. SAR Appendix A3A, "TN-40HT Criticality Evaluation Computer Input."
7. Portions of SAR Section A4B.1.5.6, "Evaluation of Basket Aluminum Components for Long Term Storage Deadweight," plus Figure A4B.1-1.
8. Portions of SAR Appendix A7B, "TN-40HT Shielding Evaluation Computer Input."

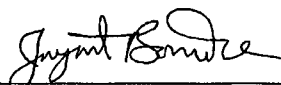
These documents have been appropriately designated as proprietary.

I have personal knowledge of the criteria and procedures utilized by Transnuclear, Inc. in designating information as a trade secret, privileged or as confidential commercial or financial information.

Pursuant to the provisions of paragraph (b) (4) of Section 2.390 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure, included in the above referenced document, should be withheld.

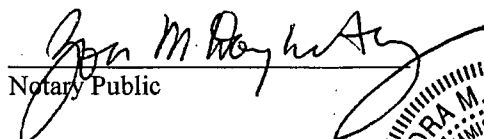
- 1) The information sought to be withheld from public disclosure are portions of certain TN-40 and TN-40HT spent fuel storage cask design drawings and analyses, as included in the Prairie Island ISFSI SAR, which are owned and have been held in confidence by Transnuclear, Inc.
- 2) The information is of a type customarily held in confidence by Transnuclear, Inc. and not customarily disclosed to the public. Transnuclear, Inc. has a rational basis for determining the types of information customarily held in confidence by it.
- 3) Public disclosure of the information is likely to cause substantial harm to the competitive position of Transnuclear, Inc. because the information consists of descriptions of the design and analysis of dry spent fuel storage systems, the application of which provide a competitive economic advantage. The availability of such information to competitors would enable them to modify their product to better compete with Transnuclear, Inc., take marketing or other actions to improve their product's position or impair the position of Transnuclear, Inc.'s product, and avoid developing similar data and analyses in support of their processes, methods or apparatus.

Further the deponent sayeth not.

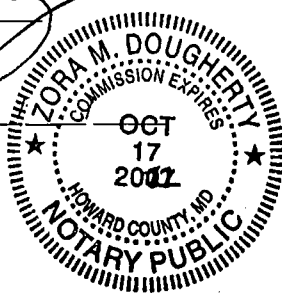


Jayant Bondre
Vice President, Transnuclear, Inc.

Subscribed and sworn to me before this 3rd day of October, 2011.


Notary Public

My Commission Expires _____



ENCLOSURE 3

**PRAIRIE ISLAND
APPLICATION FOR RENEWAL OF THE
INDEPENDENT SPENT FUEL STORAGE MATERIALS LICENSE**

196 Pages Follow (CD-ROM)