

ENCLOSURE 3 CONTAINS PROPRIETARY INFORMATION



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

OCT 20 2011

L-PI-11-074
10 CFR 72.48
10 CFR 72.70

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 (ISFSI)
Docket No. 72-10
Materials License No. SNM-2506

2011 Biennial Report of Changes, Tests, and Experiments for the Prairie Island ISFSI and
Prairie Island ISFSI Safety Analysis Report (SAR)

Per 10 CFR 72.48(d)(2), the interval for the report containing a brief description of any changes, tests, and experiments is not to exceed 24 months. Per 10 CFR 72.70(c)(6), ISFSI SAR updates shall be filed every 24 months from the date of issuance of the license. The Prairie Island ISFSI license was issued October 19, 1993. The last update was made October 16, 2009.

There are no new 10 CFR 72.48 Evaluations to report at this time. A summary of any changes, tests, and experiments are provided in Enclosure 2. Revision No. 14 to the ISFSI SAR is provided in Enclosure 3. This revision is submitted pursuant to the requirements of 10 CFR 72.70, and brings the information in the ISFSI SAR up-to-date through September 28, 2011. Revision No.14 includes a number of editorial changes, and also includes the changes from the NRC approval of Amendment No. 7 to Prairie Island's ISFSI Materials License. None of these changes required a 10 CFR 72.48 Evaluation.

Northern States Power Company, a Minnesota corporation, d/b/a Xcel Energy (hereafter "NSPM"), requests that the designated portions of the ISFSI SAR in Enclosure 3 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.

Enclosure 1 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 3.

NMS206

Enclosure 3 to this letter contains the proprietary Revision 14 of the Prairie Island ISFSI SAR. Enclosure 4 to this letter contains a nonproprietary version of the Prairie Island ISFSI SAR that may be disclosed to the public.

This update is being submitted electronically 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 no new commitments and no revisions to existing commitments.

I certify that the information contained herein accurately represents the changes made since the previous submittal of October 16, 2009.



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

Enclosures (4)

cc: Regional 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
Senior Resident Inspector, USNRC

The enclosed CD-ROM contains the following files:

001 Volume 1 - ISFSI SAR – Proprietary, 28,860 Kilobytes
002 Volume 2 - ISFSI SAR – Proprietary, 52,156 Kilobytes
003 Volume 1 - ISFSI SAR - Non Proprietary, 27,801 Kilobytes
004 Volume 2 - ISFSI SAR - Non Proprietary, 43,578 Kilobytes

ENCLOSURE 1

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."

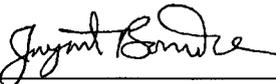
These documents have been appropriately designated as proprietary.

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.

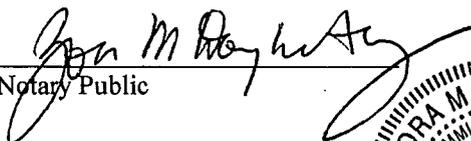
- 1) The information sought to be withheld from public disclosure are portions of certain TN-40 and TN-40HT spent fuel storage cask design drawings and analyses, as included in the Prairie Island ISFSI SAR, which are owned and have been held in confidence by Transnuclear, Inc.
- 2) The information is 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.

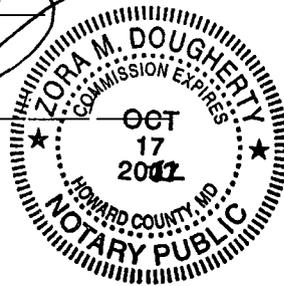


Jayant Bondre
Vice President, Transnuclear, Inc.

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



Notary Public
My Commission Expires _____



ENCLOSURE 2

SUMMARY OF CHANGES, TESTS, AND EXPERIMENTS

1 Page Follows

ENCLOSURE 2

SUMMARY OF CHANGES, TESTS, AND EXPERIMENTS

Below is a brief description of each of the changes made to the ISFSI SAR. Revision No. 14 includes a number of administrative and editorial changes, which are not summarized in this enclosure. The following represent those changes listed by input item number (with which side-barred changes are denoted).

(01249569) Screening No. 3670 – ISFSI SAR Change to Reactor Power Level

This change is to revise the description of the reactor plant power ratings in the ISFSI SAR Section 1.2, "General Description of Location." On August 18, 2010, the Nuclear Regulatory Commission (NRC) issued Amendment No. 197 to Facility Operating License DPR-42 and Amendment No. 181 to Facility Operating License DPR-60 for the Prairie Island Nuclear Generating Plant, Units 1 and 2 (PINGP), respectively. These amendments revised the plant licenses and technical specifications to reflect a 1.64 percent increase in the licensed rated thermal power from 1650 megawatts thermal (MWt) to 1677 MWt. The revised reactor plant power ratings involve no change to any ISFSI system, structure, or component (SSC) and it does not involve any change to how an SSC is operated or controlled. This determination is supported by 10 CFR 72.48 Screening No. 3670.

(01244873) Modified TN-40 Cask Design (TN-40HT) per License Amendment No. 7

An amendment by NSPM to modify the TN-40 cask design (designated as "TN-40HT") for storage of higher initially enriched and higher burnup fuel was approved by the NRC on August 20, 2010. As part of the implementation of this license amendment, NSPM added Addendum A to the ISFSI SAR to include the design information for the TN-40HT cask design. This addendum is located in Volume II of the ISFSI SAR. Throughout the ISFSI SAR, references and information related to the TN-40HT cask design were added as appropriate.

WITHOLD FROM PUBLIC DISCLOSURE UNDER 10 CFR 2.390

ENCLOSURE 3

**PRAIRIE ISLAND
INDEPENDENT SPENT FUEL STORAGE INSTALLATION
SAFETY ANALYSIS REPORT – VOLUME I and VOLUME II
REVISION 14**

1473 Pages Follow (CD-ROM)

ENCLOSURE 4

**PRAIRIE ISLAND
INDEPENDENT SPENT FUEL STORAGE INSTALLATION
SAFETY ANALYSIS REPORT – VOLUME I and VOLUME II
NON - PROPRIETARY VERSION
REVISION 14**

1473 Pages Follow (CD-ROM)