



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

Brian R. Moore, Ph.D.

Global Nuclear Fuel – Americas, LLC
Core & Fuel Engineering Manager
P.O. Box 780, M/C A55
Wilmington, NC 28401 USA

T 910 819 6684
Brian.Moore@ge.com

Proprietary Notice

This letter transmits proprietary information in accordance with 10 CFR 2.390. Upon removal of Enclosure 1, the balance of the letter may be considered non-proprietary.

MFN 16-025
April 22, 2016

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Subject: The PRIME Model for Transient Analysis of Fuel Rod Thermal – Mechanical Performance, NEDC-33840P, Revision 0, April 2016

This letter submits Global Nuclear Fuel (GNF) Licensing Topical Report (LTR), “The PRIME Model for Transient Analysis of Fuel Rod Thermal – Mechanical Performance,” NEDC-33840P. The LTR covers application of PRIME to the analysis of fast transient anticipated operational occurrences (AOOs) to determine compliance to SAFDLs for fuel temperature and cladding strain. GNF requests that the NRC review be completed within 24 months following the receipt of the report.

Please note that Enclosure 1 contains proprietary information of the type that GNF maintains in confidence and withholds from public disclosure. The information has been handled and classified as proprietary to GNF-A as indicated in its affidavit, which is also included in the report. The affidavit contained in Enclosure 3 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GNF-A. GNF-A hereby requests that the information in Enclosure 1 be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

Enclosure 1 is the proprietary version of the LTR. Enclosure 2 is a non-proprietary version. Enclosure 3 contains the affidavit.

If you have questions regarding the information provided here, please contact me or Jim Harrison at (910) 620-1826.



Brian R. Moore
Core & Fuel Engineering Manager
Global Nuclear Fuel - Americas, LLC

Project No. 712

Enclosures:

1. "The PRIME Model for Transient Analysis of Fuel Rod Thermal – Mechanical Performance," NEDC-33840P, Revision 0, April 2016 – GNF Proprietary Information – Class II (Internal)
2. "The PRIME Model for Transient Analysis of Fuel Rod Thermal – Mechanical Performance," NEDC-33840P, Revision 0, April 2016 – Non-Proprietary Information – Class I (Public)
3. Affidavit dated April 2016

cc: J Golla, USNRC
JG Head, GEH/Wilmington
PL Campbell, GEH/Washington
JF Harrison, GEH/Wilmington
PLM Specifications NEDC-33840P R0, NEDO-33840 R0, and 001N7862 R1

Document Components:

001 MFN 16-025 Cover Letter.pdf
002 MFN 16-025 Enclosure 1 Proprietary.pdf
003 MFN 16-025 Enclosure 2 Non-Proprietary.pdf
004 MFN 16-025 Enclosure 3 Affidavit.pdf