



**Global Nuclear Fuel**

A Joint Venture of GE, Toshiba, & Hitachi

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**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 13-074  
September 13, 2013

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

**Subject: Amendment 39 to NEDE-24011-P-A-19 and NEDE-24011-P-A-19-US,  
General Electric Standard Application for Reactor Fuel (GESTAR II) and the  
US Supplement**

The proposed Amendment 37 to GESTAR II (Reference 1) contained an assortment of changes in GESTAR II. Because the Amendment 37 review may take some time, Global Nuclear Fuel (GNF) has chosen to pull one of the changes proposed in Amendment 37 out and submit it separately as Amendment 39. This change involves the justification that end-of-cycle coastdown conditions are always bounded by the normal reload analyses when the TRACG04 AOO methodology (Reference 2) is used. The conclusion is as expected because the physical processes that govern the response trends at reduced power levels are essentially the same with TRACG04 as with the ODYN/TASC methodology, which was justified previously.

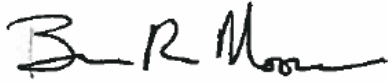
GNF requests that the Nuclear Regulatory Commission (NRC) review and approve the enclosed amendment to GESTAR II. GESTAR II is applied to all Boiling Water Reactor (BWR) plants for which GNF provides reload fuel and licensing. The material in this amendment represents a minor extension of the end-of-cycle coastdown justification to the use of the TRACG04 AOO methodology. As soon as this amendment is approved, it will be used by plants in the BWR fleet that are loading GNF fuel and using the TRACG04 AOO methodology.

Please note that Enclosure 1 contains proprietary information of the type that GNF-A maintains in confidence and withholds from public disclosure. 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 2 is a non-proprietary version of Enclosure 1.

If you have any questions about the information provided here, please contact me at (910) 819-6684 or Jim Harrison at (910) 620-1826.

Sincerely,



Brian R. Moore, Ph.D.  
Core & Fuel Engineering Manager  
GE-Hitachi Nuclear Energy Americas LLC

Project No. 712

No commitments are made in this letter or its enclosures.

#### References

1. Letter from A.A. Lingenfelter (GNF) to Document Control Desk (US NRC), Subject: Amendment 37 to NEDE-24011-P-A-19 and NEDE-24011-P-A-19-US, General Electric Standard Application for Reactor Fuel (GESTAR II) and the US Supplement, MFN 13-006, February 13, 2013.
2. GE Hitachi Nuclear Energy, "Migration to TRACG04 / PANAC11 from TRACG02 / PANAC10 for TRACG AOO and ATWS Overpressure Transients," NEDE-32906P, Supplement 3-A, Revision 1, April 2010.

#### Enclosures

1. Amendment 39 to GESTAR II – GNF-A Proprietary Information – Class III (Confidential)
2. Amendment 39 to GESTAR II – Non-Proprietary Information – Class I (Public)
3. Affidavit

cc: SS Philpott, US NRC  
J Golla, US NRC  
PL Campbell, GEH/Washington  
JG Head, GEH/Wilmington  
JF Harrison, GEH/Wilmington  
eDRF Section 0000-0165-7628 R0

#### Document Components:

001 MFN 13-074 Cover Letter.pdf  
002 MFN 13-074 Enclosure 1 Proprietary.pdf  
003 MFN 13-074 Enclosure 2 Non-Proprietary.pdf  
004 MFN 13-074 Enclosure 3 Affidavit.pdf