



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

Proprietary Notice

This letter transmits proprietary information in accordance with 10CFR2.390. Upon removal of Enclosure 1, the balance of the letter may be considered non-proprietary.

MFN 10-358
December 22, 2010

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

Subject: NEDC-33353P and NEDO-33353, “Licensing Topical Report Application of GNF-Ziron to GNF Fuel Designs”

Global Nuclear Fuel–Americas (GNF-A) is submitting licensing topical report NEDC-33353P, “Licensing Topical Report Application of GNF-Ziron to GNF Fuel Designs,” Revision 0, December 2010, for review and approval under the NRC’s licensing topical report program for referencing in licensing actions. GNF-Ziron is a zirconium alloy with the capability to meet the application requirements of components in GNF fuel designs. The GNF-Ziron alloy has thermal and mechanical properties equal to or exceeding those of Zircaloy-2, while improving the resistance of fuel components to in-service degradation effects, in particular the effects due to absorbed corrosion-generated hydrogen. This licensing topical report is a normal topical report that is applicable to all licensees utilizing GNF-A fuel. GNF-A 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-A 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, 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 2 is the non-proprietary version of Enclosure 1.

If you have any questions about the information provided here, please contact me at (910) 819-5954 or Jim Harrison at (910) 819-6604.

Sincerely,



for AA Lingenfelter

Andrew A. Lingenfelter
Vice President, Fuel Engineering
Global Nuclear Fuel–Americas, LLC

Project No. 712

Enclosures

1. NEDC-33353P, Revision 0, Application of GNF-Ziron to GNF Fuel Designs, December 2010 – GNF Proprietary Information – Class III (Confidential)
2. NEDO-33353, Revision 0, Application of GNF-Ziron to GNF Fuel Designs, December 2010 – Non-Proprietary Information – Class I (Public)
3. Affidavit, dated December 2010

cc: SS Philpott, USNRC
PL Campbell, GEH, Washington
JG Head, GEH/Wilmington
JF Harrison, GEH/Wilmington
eDRF Section 0000-0127-4981-R0

Document Components:

- 001 MFN 10-358 Cover Letter.pdf
- 002 MFN 10-358 Enclosure 1 Proprietary.pdf
- 003 MFN 10-358 Enclosure 2 Non-Proprietary.pdf
- 004 MFN 10-358 Enclosure 3 Affidavit.pdf