



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

Proprietary Notice

This letter transmits ~~proprietary information~~ in accordance with 10 CFR 2.390. Upon removal of Enclosures 1 and 4, the balance of the letter may be considered non-proprietary.

M170030
April 6, 2017

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

Subject: GNF3 Generic Compliance with NEDE-24011-P-A (GESTAR II), NEDC-33879P, March 2017 and GEXL21 Correlation for GNF3 Fuel, NEDC-33880P, March 2017

This letter transmits two reports documenting completion of the fuel licensing qualification for the GNF3 fuel design in accordance with the provisions of GESTAR II (Reference 1).

- (1) The GNF3 Generic Compliance with NEDE-24011-P-A (GESTAR II) report documents the completion of the requirements for a new fuel design per the criteria defined in GESTAR II. Section 1.1 of GESTAR II defines a set of fuel licensing acceptance criteria for evaluating new fuel designs and for determining the applicability of generic analyses to these new designs. As stated in GESTAR II, "Fuel design compliance with the fuel licensing acceptance criteria constitutes USNRC acceptance and approval of the fuel design without specific USNRC review." All of the criteria defined in GESTAR II have been met for the GNF3 fuel design.
- (2) The GEXL21 Correlation for GNF3 Fuel report documents the testing and correlation development of the critical power correlation supporting the GNF3 fuel design. Using the criteria established in GESTAR II Section 1.1.7b and c, the GEXL21 correlation has been established based on the same terms and form as the previous correlations. The new correlation is based on significant new data for the GNF3 fuel design.

In accordance with the provisions of Section 1.4 of Reference 1, and consistent with GESTAR II Amendment 37 Limitation and Condition 3 (Reference 2), the GNF3 Compliance Report will be added to the list of compliance reports in the next revision of GESTAR II.

Please note that Enclosures 1 and 4 contain proprietary information of the type that Global Nuclear Fuel – Americas (GNF-A) maintains in confidence and withholds from public disclosure. The affidavits contained in Enclosures 3 and 6 identify that the information contained in Enclosures 1 and 4, respectively, has been handled and classified as proprietary to

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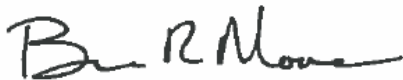
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GNF-A. GNF-A hereby requests that the information in Enclosures 1 and 4 be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

Enclosures 2 and 5 are the non-proprietary versions of Enclosures 1 and 4, respectively.

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
General Manager, Core & Fuel Engineering
Global Nuclear Fuel – Americas, LLC

Project No. 712

References:

1. Global Nuclear Fuel, “General Electric Standard Application for Reactor Fuel (GESTAR II),” NEDE-24011-P-A-24, and the US Supplement NEDE-24011-P-A-24-US, March 2017.
2. Letter from Kevin Hsueh (NRC) to Jerald G. Head (GEH), “Final Safety Evaluation for Amendment 37 to Global Nuclear Fuel – Americas Topical Report NEDE-24011-P-A-US General Electric Standard Application for Reactor Fuel and the US Supplement (CAC No. MF0743),” March 13, 2017.

Enclosures:

1. GNF3 Generic Compliance with NEDE-24011-P-A (GESTAR II), NEDC-33879P, March 2017 - GNF-A Proprietary Information – Class II (Internal)
2. GNF3 Generic Compliance with NEDE-24011-P-A (GESTAR II), NEDO-33879, March 2017 - Non-Proprietary Information – Class I (Public)
3. Affidavit for Enclosure 1 dated March 2017
4. GEXL21 Correlation for GNF3 Fuel, NEDC-33880P, March 2017 - GNF-A Proprietary Information – Class II (Internal)
5. GEXL21 Correlation for GNF3 Fuel, NEDO-33880, March 2017 - Non-Proprietary Information – Class I (Public)
6. Affidavit for Enclosure 4 dated April 2017

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cc: J Golla, USNRC
PL Campbell, GEH/Washington
JG Head, GEH/Wilmington
JF Harrison, GEH/Wilmington
PLM Specifications 004N2198 Revision 0
NEDC-33879 Revision 0
NEDO-33879 Revision 0
NEDC-33880 Revision 0
NEDO-33880 Revision 0

Document Components:

001 M170030 Cover Letter.pdf
002 M170030 Enclosure 1 Proprietary.pdf
003 M170030 Enclosure 2 Non-Proprietary.pdf
004 M170030 Enclosure 3 Affidavit.pdf
005 M170030 Enclosure 4 Proprietary.pdf
006 M170030 Enclosure 5 Non-Proprietary.pdf
007 M170030 Enclosure 6 Affidavit.pdf