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GE Hitachi Nuclear Energy

Proprietary Notice

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

James F. Harrison

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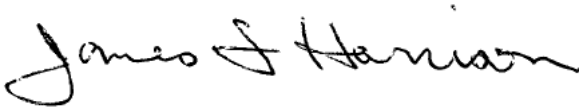
Subject: Use of the Shumway T_{\min} Correlation with Zircaloy for TRACG Analyses

This letter transmits, for your information, a summary of analyses supporting the use of the Shumway correlation as implemented in TRACG to estimate the minimum stable film boiling temperature (T_{\min}) for Zircaloy. The use of the Shumway correlation with Zircaloy properties is justified because it provides a conservative value of T_{\min} , reflecting a delay in the return to nucleate boiling and thus resulting in higher and more conservative calculated values for the wall temperature (T_w). As needed, this letter may be referenced by licensees using the Shumway correlation with Zircaloy properties in TRACG analyses.

Please note that Enclosure 1 contains proprietary information of the type that GEH maintains in confidence and withholds from public disclosure. The affidavit contained within Enclosure 3 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GEH. GEH 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, please contact me.

Sincerely,



James F. Harrison
Vice President, Fuel Licensing
Regulatory Affairs
GE-Hitachi Nuclear Energy Americas LLC

Project No. 710

No commitments are made in this letter or its enclosures.

Enclosures:

1. Use of the Shumway T_{\min} Correlation with Zircaloy for TRACG Analyses – GEH Proprietary Information – Class III (Confidential)
2. Use of the Shumway T_{\min} Correlation with Zircaloy for TRACG Analyses – Non-Proprietary Information – Class I (Public)
3. Affidavit dated September 2013

cc: SS Philpott, US NRC
J Golla, US NRC
CJ Jackson, US NRC
JG Head, GEH/Wilmington
PL Campbell, GEH/ Washington
JG Anderson, GEH/Wilmington
CL Heck, GEH/Wilmington
PT Tran, GEH/Vallecitos
eDRF Section 0000-0067-8003 R2

Document Components:

- 001 MFN 13-073 Cover Letter.pdf
- 002 MFN 13-073 Enclosure 1 Proprietary.pdf
- 003 MFN 13-073 Enclosure 2 Non-Proprietary.pdf
- 004 MFN 13-073 Enclosure 3 Affidavit.pdf