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**Subject: Submittal of Implementation of LANCR02/PANAC11 in Downstream Methods
Licensing Topical Report (NEDO-33935 Supplement 1)**

Global Nuclear Fuel-Americas (GNF-A) is updating methods to enable the introduction of enrichment levels above current licensed limits. This submittal includes Revision 0 of Implementation of LANCR02/PANAC11 in Downstream Methods (NEDO-33935 Supplement 1) Licensing Topical Report (LTR).

Relative to review duration, GNF-A requests a 12-month review cycle. Our intention is to use this approved method to license core reloads with increased enrichments subsequent to approval and downstream method implementation of LANCR methods. This time period is required to ensure that all method updates are complete to enable design, analysis, and fabrication core reload of increased enriched fuel.

This LTR is a process document. GNF-A requests that the NRC approve this process document to enable GNF to perform the method adaptations consistent with the approved process. Upon completion of the adaptations in the downstream methods to incorporate LANCR, GNF will issue a summary report. At that time, the NRC will have the opportunity to audit our internal documentation. If the NRC does perform an audit, the resulting NRC audit report will be included in the approved LTR. This process is analogous to that followed for implementation of PRIME methods in downstream methods via NEDO-33173 Supplement 4-A (ML112660155).

If you have any questions, please contact me directly (910-819-5307).

Sincerely,



Kent Halac
Senior Engineer, Regulatory Affairs
Global Nuclear Fuel – Americas, LLC

Project No. 712 / Docket No. 99901376

Enclosures:

1. LANCR Downstream Methods Implementation Licensing Topical Report, NEDO-33935, Supplement 1, Revision 0, October 2022 – Non-Proprietary Information

cc: K Lenning, NRC
MP Catts, GEH Wilmington
BR Moore, GNF Wilmington
PLM Specifications 007N4133 R0, NEDO-33935_SUPPL1 R0

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