72-1026

BNFL
Fuel Solutions

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BFS/NRC 05-004
Docket No. 72-1026
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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Biennial §72.48 Report for the FuelSolutions™ Storage System

References:
1) FuelSolutions™ Storage System Final Safety Analysis Report, WSNF-220.
2) FuelSolutions™ W21 Canister Final Safety Analysis Report, WSNF-221.
3) FuelSolutions™ W74 Canister Final Safety Analysis Report, WSNF-223.

Dear Sir or Madam:

In accordance with the requirements of 10CFR72.48(d)(2), BNFL Fuel Solutions (BFS), as the certificate holder for the FuelSolutions™ Storage System, is submitting the following biennial §72.48 report to NRC for the changes made to the FuelSolutions™ Storage System under the provisions of 10CFR72.48 since the last biennial §72.48 report. The biennial §72.48 report provides a brief description of all changes, tests, and experiments, and a summary of each evaluation for changes affecting the FuelSolutions™ Storage System components described in References 1, 2, and 3 (as updated). Please note that all changes summarized in the attached report were concluded to not require prior NRC approval.

Should you or any member of your staff have questions, please contact the undersigned at (408) 558-3509.

Sincerely,

Steven E. Sisley
Licensing/Regulatory Compliance Manager

cc) Mary Jane Ross-Lee, SFPO

NMSS01

§72.48 Evaluation Summary Report for the FuelSolutions™ Storage System FSARs (WSNF-220, WSNF-221, and WSNF-223)

SR No. SR-05-003

Description of Changes:

Generic Change:

Reduce the outside diameter of the recessed portion of the W100 top and bottom cover plates by 0.1 inch. The W100 top cover plate diameter is reduced from 68.4-inch to 68.3-inch and the W100 bottom cover plate diameter is reduced from 66.9-inch to 66.8-inch.

Summary of Evaluation:

The removal of the thin annular ring of steel from the inside lip of the top and bottom cover plates has a negligible impact on the design functions of the W100 cask. The small increase in the gap between the W100 cask body and top and bottom cover plates resulting from the change will have a small negative impact on the W100 thermal and shielding performance. However, any adverse impact on the thermal performance of the W100 cask will be localized and not impact the global heat transfer. Furthermore, due to the small size of these gaps and their proximity to the cask ends, the change will have no measurable effect on any dose rate margins.