RESOLUTION OF WESTINGHOUSE ELECTRIC COMPANY

COMMENTS ON DRAFT SAFETY EVALUATION FOR

WCAP-16498-P/WCAP-16498-NP, "17X17 NEXT GENERATION FUEL (17X17 NGF)

REFERENCE CORE REPORT"

WESTINGHOUSE ELECTRIC COMPANY

(TAC NO. MD8540)

By letter dated July 2, 2010, Westinghouse Electric Company (Westinghouse) provided eighteen comments on the draft safety evaluation (SE) for Topical Report (TR) WCAP-16498-P/WCAP-16498-NP, "17x17 Next Generation Fuel (17x17 NGF) Reference Core Report." Some information in the draft SE for this TR was identified as proprietary and the NRC staff agrees; therefore, the draft of this SE will not be made publicly available. The following are the NRC staff's resolution of these comments:

Draft SE comments for TR WCAP-16498-P/WCAP-16498-NP:

1. The third sentence of Section 1.0 reads:

   > Thus, most of the design features of the 17x17 NGF fuel are identical to those of the NRC approved 17x17 RFA fuel.

   Westinghouse proposed to change "approved" to the "accepted" in the third sentence of Section 1.0.

   NRC Resolution for Comment 1 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

   The third sentence of Section 1.0 is changed to read:

   > Thus, most of the design features of the 17x17 NGF fuel are identical to those of the NRC accepted 17x17 RFA fuel.

2. Westinghouse proposed to add the following footnote to the first sentence of Section 3.0, Paragraph 1:

   > Note: All dimensions are in inches and are listed as reference values as would be done in a plant's Final Safety Evaluation Report.

NRC Resolution for Comment 2 on Draft SE:

The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

The following footnote is added to the first sentence of Section 3.0, Paragraph 1:

> Note: All dimensions are in inches and are listed as reference values as would be done in a plant's Final Safety Evaluation Report.

3. Westinghouse proposed the correction of a typographical error in the Table 2-1 on page 22 of the WCAP-16498-P/WCAP-16498-NP TR and associated error in the table found on page 2 of draft SE. The wording identifying the number of mid-grids is inconsistent with the number of mid-grids identified in Figure 2-1 of the WCAP-16498-P/ WCAP-16498-NP TR. Westinghouse proposes changing "Five grids" to "Six grids" for both the 17x17 RFA as well as the 17x71 NGF in the table. Westinghouse stated that Table 2-1 in the WCAP-16498-P/WCAP-16498-NP TR will be corrected in the final approved version with a note in the margin noting this correction which was identified herein.

   NRC Resolution for Comment 3 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

4. Third sentence of Section 3.3 reads "…17x17 NGF fuel, is predicated on the review and approval of TR WCAP-16766-P/WCAP-16766-NP…" Westinghouse proposed to change third sentence of Section 3.3 to "…17x17 NGF fuel, is based on the approved TR WCAP-16766-P-A/WCAP-16766-NP-A…"

   NRC Resolution for Comment 4 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable with the addition of "NRC-approved." The NRC staff agrees that such a revision (with addition of "NRC-approved") is consistent with the staff's review findings and provides additional clarification.

   The third sentence of Section 3.3 is changed to read "…17x17 NGF fuel, is based on the NRC-approved TR WCAP-16766-P-A/WCAP-16766-NP-A…"

5. Westinghouse proposed to change "… mid-grid spans…" in the fifth sentence of Section 3.3 to "…IFM-grid spans…"

   NRC Resolution for Comment 5 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

6. Third sentence of Section 3.3 and third sentence of the fifth paragraph, Section 4.0, read "…Westinghouse to confirm that the RCCA scram time..." Westinghouse proposed to change third sentence of Section 3.3 to "…Westinghouse to confirm that the Technical Specification RCCA scram time…"

   NRC Resolution for Comment 6 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

7. Westinghouse proposed to change "RFA fuel" to "17x17 fuel" in the first sentence of the fourth paragraph, Section 4.0.

   NRC Resolution for Comment 7 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

8. Second sentence of paragraph 4, Section 4.0, reads "…17x17 NGF fuel, is predicated on NRC review and approval of TR WCAP-16766-P/WCAP-16766-NP…" Westinghouse proposed to change second sentence of Paragraph 4, Section 4.0, to "…17x17 NGF fuel, is based on NRC-approved TR WCAP-16766-P-A/WCAP-16766-NP-A…"

   NRC Resolution for Comment 8 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

   The third sentence of Section 3.3 is changed to read "…17x17 NGF fuel, is based on the NRC-approved TR WCAP-16766-P-A/WCAP-16766-NP-A…"

9. Westinghouse proposed to change "optimized ZIRLO" to "Optimized ZIRLO™" in the last paragraph of Section 4.0.

   NRC Resolution for Comment 9 on Draft SE:

   The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested revision clarifies the staff scope and context of the staff review. The NRC staff agrees that such a revision is consistent with the staff's review findings and provides additional clarification.

10. Westinghouse proposed to change Reference 7 from:

    > Letter from Gresham, J. A. (Westinghouse) to U.S. Nuclear Regulatory Commission, "Submittal of WCAP-16766-P/WCAP-16766-NP, 'Westinghouse Next Generation Correlation (WNG-1) for Predicting Critical Heat Flux in Rod Bundles with Split Vane Mixing Grids' (Proprietary/Non-Proprietary)'," October 26, 2007 (ADAMS Accession No. ML073050397).

    To:

    > Letter from Gresham, J. A. (Westinghouse) to U. S. Nuclear Regulatory Commission, "Submittal of Approved Version of WCAP-16766-P-A/WCAP-16766-NP-A, 'Westinghouse Next Generation Correlation (WNG-1) for Predicting Critical Heat Flux in Rob Bundles with Split Vane Mixing Grids'," March 2, 2010 (ADAMS Accession No. ML100850530).

    NRC Resolution for Comment 10 on Draft SE:

    The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the suggested change of the reference reflects the Westinghouse submittal to NRC of the A-version of the WCAP-16766-P-A/WCAP-16766-NP-A TR.

11. Westinghouse provided several comments related to typographical errors and stylistic changes.

    NRC Resolution for Comment 10 on Draft SE:

    The NRC staff reviewed the Westinghouse recommendation and found it acceptable because the changes are editorial in nature.