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Waterford 3

W3F1-2014-0075

December 10, 2014

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

Subject: Waterford Steam Electric Station, Unit 3 Response to Request for Additional Information Regarding Revision 1 to the Cycle 20 Core Operating Limits Report (COLR).
Waterford Steam Electric Station, Unit 3 (Waterford 3)
Docket No. 50-382
License No. NPF-38

- References:
1. Entergy letter W3F1-2014-0047, Core Operating Limits Report – Cycle 20 Revision 1, dated July, 29, 2014.
 2. NRC email, Request for Information Regarding Waterford 3 Cycle 20 Core Operating Limits Report Revision 2, dated October 21, 2014.

Dear Sir or Madam:

In letter dated July 29, 2014 (Reference 1), Entergy submitted Revision 1 of the Cycle 20 Core Operating Limits Report (COLR) to the NRC in accordance with Waterford 3 Technical Specification (TS) 6.9.1.11.3. This TS requires that the COLR, including any mid-cycle revisions or supplements thereto, be provided upon issuance for each reload cycle to the NRC. In email dated October 21, 2014 (Reference 2), the NRC requested additional information regarding this submittal. This letter provides the response to that request in the attachment.

There are no new commitments contained in this submittal.

If you have any questions, please contact the Regulatory Assurance Manager, John P. Jarrell, at (504) 739-6685.

Sincerely,

A handwritten signature in black ink, appearing to read "John P. Jarrell".

JPJ/LEM

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Attachment: Waterford 3 Response to Request for Additional Information for
Revision 1 to the Waterford 3 Cycle 20 Core Operating Limits Report
(COLR)

cc: Mr. Marc L. Dapas
Regional Administrator
U. S. Nuclear Regulatory Commission
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Waterford 3 NRR Project Manager
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Attachment to

W3F1-2014-0075

Response to Request for Additional Information for Revision 1 to the Waterford 3 Cycle
20 Core Operating Limits Report (COLR)

Waterford 3 Response to Request for Additional Information

Question 1

The COLR, Revision 1 indicated a change in Azimuthal Power tilt Limit value from less than or equal to 0.03 to a value of less than or equal to 0.05. Confirm that this change does not affect any design basis analysis inputs or assumptions or other power distribution limits.

Response 1

The impact of raising the COLR limit of Azimuthal Tilt from 0.03 to 0.05 on the Waterford 3 transient and accident analyses has been evaluated by Analyses of Record (AOR) holder, Westinghouse. The analyses assume a worst case power peaking and Control Element Assembly worth that can be affected by Azimuthal Power Tilt. However, for Cycle 20 the impact of a higher Azimuthal Power Tilt on the assumed power peaking and CEA's worth was evaluated and shown to be bounded by the current inputs to the transient and accident analyses. Based on review of impacted safety analyses and available margins in assumed power peaking and CEA's worth, changing the Azimuthal Power Tilt from 0.03 to 0.05 will not result in an adverse impact on the analyses results and conclusions and no re-analysis of these events was required as a result of this change. Westinghouse has examined all other transient and accident analyses, and determined that this change has no impact on those analyses.

In summary, the changing the COLR limit for Azimuthal Power Tilt from less than or equal to 0.03 to less than or equal to 0.05 did not affect any design basis analysis inputs or assumptions or other power distribution limits.