
RESPONSE TO AUDIT ISSUES

APR1400 Topical Reports

Korea Electric Power Corporation / Korea Hydro & Nuclear Power Co., LTD

Docket No. PROJ0782

Review Section	TR Realistic Evaluation Methodology for LBLOCA of the APR1400
Application Section	Topical Report: APR1400-F-A-TR-12004 Realistic Evaluation Methodology for Large-Break LOCA of the APR1400
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The guidance in RG 1.157, Section 4.3.1 establishes acceptable controls for the utilization of conservative parameters in best estimate analysis. Provide the following details:

- b. Describe how the power shape and peaking factor (F_q) were determined for the base case calculation.

Response (Rev. 1)

Power Peaking Factor

The range of Fq variation for []^{TS} as shown in Figure 1. The variation is for the initial core of the SKN 3 and 4. However, the maximum of []^{TS} the linear heat generation rate (LHGR) limit of the technical specifications.

[

]^{TS}

Power Shape

The procedure of determining the power shape is described in Section 5.1.1 of the topical report.

[]^{TS}

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Therefore, the power shape of the base case calculation made in accordance with the above procedure is shown in Figure 7.



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Figure 1. []^{TS}



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Figure 2. [

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Figure 3. [

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Figure 4. [

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Figure 5. [

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Figure 6. [

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Figure 7. [

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Impact on DCD

There is no impact on the DCD.

Impact on PRA

There is no impact on the PRA.

Impact on Technical Specifications

There is no impact on the Technical Specifications.

Impact on Technical/Topical/Environmental Report

There is no impact on any Technical, Topical, or Environmental Report.