

**ENCLOSURE 1**

**MFN 05-113**

**ESBWR**

**Response to NRC ESBWR Acceptance Review  
Additional Information Request**

<b>Requested Information</b>	<b>Response Summary</b>	<b>Reference Document</b>
1. Fuel and Control Rod Design	a. Revised sections of the DCD to incorporate details of fuel and control rod design. b. Additional detailed licensing topical reports will be provided in accordance with the submitted schedule defined in MFN 05-115.	MFN 05-115 (10/24/05)
2. Thermal Hydraulic Code	a. Provided a detailed justification of the TRACG computer code and associated PIRT to the feedwater line break. b. Provided justification that the largest possible FW line break was considered. c. Responses were provided to the confirmatory items in the staff's SER concerning the TRACG computer code. d. Provided a schedule for submittal of additional reports in MFN 05-096.	MFN 05-096 (9/20/05) MFN 05-109 (10/20/05)
3. Fuel Correlation	a. Revised sections of the DCD to incorporate details of fuel and control rod design. b. Additional detailed licensing topical reports will be provided in accordance with the submitted schedule as shown in MFN 05-115.	MFN 05-115 (10/24/05)
4. Fission Product Removal	a. Submitted a revised section of the DCD to more fully address fission product transport and removal. b. Submitted a schedule (see MFN 05-111) for completing an additional evaluation model that will be conducted to further verify the conclusions presented in the DCD.	MFN 05-111 (10/22/05)

<b>Requested Information</b>	<b>Response Summary</b>	<b>Reference Document</b>
5. Human Factors Engineering	<p>a. Submitted a revised Chapter 18 to the DCD that complies with the Standard Review Plan and NUREG-0711.</p> <p>b. Submitted the complete ESBWR Man-Machine Interface System and Human Factors Engineering Implementation Plan for NRC review.</p>	<p>MFN 05-094 (9/19/05) MFN 05-112 (10/22/05)</p>
6. Digital Instrumentation and Control	<p>a. Submitted a revised Chapter 7 of the DCD to incorporate the requirements of IEEE 603 and the Standard Review Plan.</p> <p>b. The Software Management Plan, Software Development Plan, and the Software Configuration Management Plan have been modified to be submitted as topical reports to aid the staff in the review of the ESBWR design process (schedule in MFN 05-118).</p> <p>c. A report of the reference design control and instrumentation platform has been modified to be a topical report to allow the staff to review the details of the reference platform design (schedule in MFN 05-118).</p>	<p>MFN 05-118 (10/24/05)</p>
7. Operating Experience Evaluation	<p>a. Submitted revisions to sections of the DCD to address Generic Letters 96-05, 88-01, and 96-02.</p> <p>b. Conducted an additional review of the Generic Letters and Bulletins.</p>	<p>MFN 05-117 (10/24/05)</p>
8. Flood Protection	<p>Submitted a revised section of the DCD to address the ESBWR flood protection measures more completely.</p>	<p>MFN 05-108 (10/17/05)</p>

<b>Requested Information</b>	<b>Response Summary</b>	<b>Reference Document</b>
9. Steam Dryer Design and Structural Integrity	Submitted a revised appendix to DCD Chapter 3 to describe the reactor internals flow-induced vibration program.	MFN 05-116 (10/24/05)
10. Chimney assembly design and structural integrity	Submitted a revised appendix to DCD Chapter 3 to describe the reactor internals flow-induced vibration program.	MFN 05-116 (10/24/05)
11. Reactor Pressure Vessel (RPV) internals vibration	Submitted a revised appendix to DCD Chapter 3 to describe the reactor internals flow-induced vibration program.	MFN 05-116 (10/24/05)
12. Radiation Protection	a. Revised DCD to remove any implication that the DAC approach was used. b. Revised the DCD to more fully address 10 CFR 20.1406.	MFN 05-108 (10/17/05)
13. Fire Protection	Submitted revised sections of the DCD to address the acceptance review issues in the fire protection area.	MFN 05-108 (10/17/05)
14. Safeguards Information	Submitted required safeguards information.	MFN 05-104 (10/12/05)