



GE Energy

James C. Kinsey
Project Manager, ESBWR Licensing

PO Box 780 M/C J-70
Wilmington, NC 28402-0780
USA

T 910 675 5057
F 910 362 5057
jim.kinsey@ge.com

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U.S. Nuclear Regulatory Commission
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Subject: Integrated Plan and Schedule – ESBWR Design Certification Application

General Electric Company (GE) hereby provides a summary of the integrated plan and schedule for submittal activities in support of the NRC Staff's issuance of the Safety Evaluation Report for ESBWR design certification. As discussed in the Reference 1 letter, GE proposed a process change to allow both GE and the NRC to more efficiently complete the remaining design certification activities. This integrated plan and schedule are being provided in conjunction with that process change, as recently discussed with the NRC Staff (see Reference 2). The information discussed below is intended to be sufficient for the NRC Staff to develop the balance of their certification review plan and a schedule of major milestones through the remainder of the design certification review process.

Based on GE's assessment of remaining certification activities, and ongoing dialogue with the NRC Staff, GE will submit additional information concerning four primary areas:

- Responses to NRC Requests for Additional Information (RAIs)
- New or revised Licensing Topical Reports (LTRs)
- Probabilistic Risk Assessment (PRA)
- Revisions to the ESBWR Design Control Document (DCD)

GE's plans and schedules for providing this information are summarized below:

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RAI Responses

GE previously transmitted its schedule for providing RAI responses (see Reference 3). That schedule included all RAIs and RAI Supplements that the NRC had issued up to that time. As the NRC Staff develops and transmits additional RAIs and RAI Supplements to GE, GE will promptly assess each RAI and communicate to the NRC Staff response schedules for new items on a regular basis.

Licensing Topical Reports

Enclosure 1 lists LTRs currently planned in support of design certification, along with a scheduled submittal date for each LTR. Certain of these submittal dates have been provided previously, but are included here for completeness and to reflect updated submittal plans.

Probabilistic Risk Assessment

GE plans to submit the PRA LTR (NEDO-33201, Revision 2) on a staggered basis in groups of sections according to the following schedule:

April 30, 2007	Sections 1 through 7
August 14, 2007	Sections 8 through 10 and 16
September 14, 2007	Sections 13 through 15
September 28, 2007	Sections 11, 12, and 17 through 21

The section groups of NEDO-33201 will be submitted as marked-up text. The completed document will be submitted with the final group of sections on September 28, 2007, and will incorporate all applicable RAI responses.

DCD Submittal(s)

GE submitted DCD, Revision 3, with the exception of Chapter 19, for NRC Staff review on February 22, 2007. As previously communicated with the NRC Staff, Chapter 19, Revision 3, is scheduled for submittal on April 30, 2007.

DCD, Revision 4, is intended to incorporate changes associated with the submittals discussed above, and will include additional development and detail related to the plant modifications introduced in Revision 3. The scope of DCD, Revision 4, will include comprehensive technical content incorporation and is intended to provide the basis necessary for the NRC Staff to develop its conclusions in support of a Safety Evaluation Report. GE plans to submit DCD, Revision 4 during November 2007. In addition, GE will provide the NRC Staff with the results of updated analyses supporting DCD, Revision 4, in advance of the DCD revision, where possible.

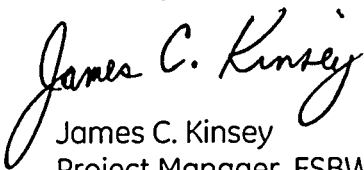
GE has not finalized plans for DCD, Revision 5. The schedule for DCD, Revision 5 will consider results of the NRC Staff's review of information being provided by GE, and coordination of revisions to the ESBWR Combined License applications which are currently scheduled to be submitted to the NRC in the fourth quarter 2007. As an estimate, GE expects that DCD, Revision 5, will be submitted during the second quarter of 2008, and the contents will primarily address closure of NRC open issues identified during the NRC Staff's review of the DCD and associated transmittals. GE expects no subsequent DCD revisions other than as may be necessary to address minor issues as the NRC finalizes its Safety Evaluation and proceeds to rulemaking.

GE recognizes the need for timely submittal of information, and has attempted to incorporate improvements in the design while also addressing evolving regulatory guidance, which in some cases have resulted in unanticipated design modifications. GE remains committed to continued interactions with the NRC Staff toward prompt identification, resolution, and closure of NRC open issues associated with the ESBWR design certification. Implementation of an efficient issue identification and closure process supports effective use of both GE and NRC resources, and will result in a more timely completion of the certification process and fewer issues to address in the COL reviews.

GE has provided information regarding its remaining activities and timetable for major submittals to the NRC. Based on our assessment of this information, in conjunction with the design certification process change efficiencies being implemented by both GE and the NRC Staff, GE's schedule continues to target a final design certification rule by December 2009. GE requests that the NRC staff evaluate the information contained in this transmittal and identify key milestone dates associated with SER issuance including completion target date.

If you have any questions please contact me.

Sincerely,

A handwritten signature in black ink that reads "James C. Kinsey". The signature is written in a cursive, flowing style.

James C. Kinsey
Project Manager, ESBWR Licensing

References:

1. MFN 07-083, Letter from General Electric to U.S. Nuclear Regulatory Commission, *Proposal for Review Process Adjustment for the ESBWR Design Certification Application*, February 2, 2007
2. Letter from U.S. Nuclear Regulatory Commission to General Electric, *ESBWR Design Certification Schedule*, April 16, 2007
3. MFN 07-143, Letter from General Electric to U.S. Nuclear Regulatory Commission, *Summary Report – RAI Resolutions Incorporated in ESBWR Design Control Document, Revision 3, and RAI Response Schedule*, March 12, 2007

Enclosure:

1. Submittal Schedule Summary – Licensing Topical Reports

cc: AE Cubbage USNRC (with enclosures)
 GB Stramback GE/San Jose (with enclosures)
 RE Brown GE/Wilmington (with enclosures)

Enclosure 1

Licensing Topical Report Submittal Schedule

Title	Number	Affected DCD Tier 2 Chapter	Rev	Scheduled NRC Submittal Date
GE14 for ESBWR Nuclear Design Report	NEDE-33239P	4	0	4/30/2007
GE14 for ESBWR Critical Power Correlation, Uncertainty, and OLMCPR Development	NEDE-33237P	4	0	4/30/2007
ESBWR I&C Software Management Plan	NEDO-33226	7, 18	1	6/27/2007
ESBWR I&C Software Quality Assurance Plan	NEDO-33245	7, 18	1	6/27/2007
ESBWR Man-Machine Interface System and Human Factors Engineering Implementation Plan	NEDO-33217	18	1	6/27/2007
TRACG Application for ESBWR, Stability*	NEDC-33083P-A, Supplement 1	4	1	6/29/2007
GE14E for ESBWR Initial Core Nuclear Design Report	NEDC-33326P	4	0	7/16/2007
Security Enhancements	Not assigned	13	0	7/16/2007
Interim Compensatory Measures	Not assigned	13	0	7/16/2007
COBRAG Application Methodology	Not assigned	4	0	7/16/2007
Safeguards Report	Not assigned	13	0	8/15/2007
ESBWR Containment Fission Product Removal Evaluation Model	NEDE-33279P	15	2	8/30/2007
ESBWR PRA	NEDO-33201	19	2	9/28/2007
ESBWR Initial Core Transient Analyses	Not assigned	15	0	9/28/2007
ESBWR Feedwater Temperature Operating Domain Transient and Accident Analysis	Not assigned	15	0	9/28/2007
Fuel Rack Design	Not assigned	9	0	9/28/2007
TRACG Qualification	NEDE-32177	6	3	9/28/2007
Steam Dryer - Acoustic Load Definition	NEDE-33312P	3.9	0	10/31/2007
Steam Dryer - Instrumentation and Power Ascension Monitoring	NEDE-33314P	3.9	0	10/31/2007
Steam Dryer - Structural Evaluation	NEDE-33313P	3.9	0	10/31/2007
ESBWR Reactor Internals FIV	NEDE-33259	3	1	12/31/2007

*Note: This revision will include the SER and will incorporate previously docketed RAI responses.