

November 4, 2009

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

APPLICATION: US-APWR STANDARD DESIGN CERTIFICATION REVIEW

SUBJECT: SUMMARY OF THE SEPTEMBER 28, 2009, PUBLIC MEETING WITH MITSUBISHI HEAVY INDUSTRIES LTD. TO DISCUSS UNITED STATES - ADVANCED PRESSURIZED WATER REACTOR TECHNICAL REPORT MUAP-07024-P, QUALIFICATION AND TEST PLAN OF CLASS 1E GAS TURBINE GENERATOR

On September 28, 2009, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Mitsubishi Heavy Industries Ltd. (MHI) at the U.S. Nuclear Regulatory Commission, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was to discuss the details of Technical Report MUAP-07024-P, Qualification and Test Plan of Class 1E Gas Turbine Generator (GTG) for the United States - Advanced Pressurized Water Reactor (US-APWR) Design Control Document (DCD). The meeting also discussed some of the action items from the August 6, 2009, public meeting as described in the meeting summary located in the Agencywide Documents Access and Management System (ADAMS), under accession number ML092570575. This meeting was a follow-up to the August 6, 2009, public meeting which focused on GTG testing and diversity as an alternate AC power system. A list of attendees is provided as Enclosure 1.

A public meeting notice was issued and documented in ADAMS, under accession number ML092530652, which includes the Meeting Agenda. The MHI Meeting Presentation, Enclosure 2, is available in ADAMS, under accession number ML092810239 and the NRC Meeting Presentation, Enclosure 3, is also available in ADAMS, under accession number ML092810236.

The NRC Presentation Related to Seismic Analysis of Technical Report MUAP-07024-P

The NRC staff stated that more detail related to Section 6 (Seismic Analysis) of the technical report is needed. When discussing the response to the Request for Additional Information (RAI) 1749, Question 3.10-9 (ML091170078), the staff reiterated that MHI needs to document its Seismic Qualification Plan in the technical report, with reference to the report in the DCD Section 3.10. The NRC staff will issue a follow-up RAI to address the seismic analysis of the qualification plan. See the NRC presentation, Enclosure 3, for more details.

MHI Presentation and Summary on the GTG Qualification and Test Plan

MHI provided more details of their plans for qualifying and testing its GTG in their presentation, while addressing NRC staff's questions. The Qualification and Test Plan provides more details and is aligned with the applicable guidance. MHI plans to issue a revision to Technical Report MUAP-07024-P, on October 31, 2009. The NRC staff plans to review the revised technical

report when it becomes available, to verify the qualification and test plans. The NRC staff expressed interest in observing both the GTG qualification activities and reliability testing. The NRC staff would like to coordinate these observation activities with MHI based on MHI's schedule.

The NRC staff expects MHI's revised Technical Report MUAP-07024-P, Qualification and Test Plan of Class 1E GTG, to include sufficient information for the staff to verify plans. The NRC staff may conduct an audit of MHI's qualification and test plans if additional information and/or verification are needed. MHI still plans to submit the summary of the test results for the GTG reliability testing by December 2010, but the GTG Qualification and Test Report will be submitted by the end of February 2011.

Follow-up Action Items from the August 6, 2009, GTG Public Meeting

1. MHI provided a draft revised response to RAI 72-853, Question 16-3 (ML082890619) for the NRC staff to review. See action item number 1.
2. MHI provided a response to the NRC staff's comments on Appendix C of the Technical Report MUAP-07024-P. MHI also provided a Matrix which incorporates RG 1.9 and IEEE 387 into Technical Report MUAP-07024-P. Both documents mentioned above are provided for the NRC staff to review. See below.
3. The NRC may issue a new RAI, requesting information, for staff to verify that 150 tests are sufficient to provide a 95 percent confidence level for a selected target reliability of 0.975.

Concluding Remarks

The NRC staff thanked MHI for a detailed description of the Qualification and Test Plan for US-APWR GTG. Both the NRC and MHI have action items to complete in order to close the RAIs, and for incorporation into Technical Report MUAP-07024-P, Revision 1, which is scheduled for submission by MHI on October 31, 2009. For more details, see MHI and NRC's presentation materials.

List of Action Items

1. The NRC staff has reviewed the revised draft response to RAI 72-853, Question 16-3 (ML082890619), submitted by MHI on September 28, 2009. The NRC staff finds the draft response acceptable and requests MHI to submit a formal response for docketing.
2. MHI provided the following documents for the NRC staff to review prior to the issuance of Technical Report, MUAP-07024-P, Revision 1: MHI's Response to NRC Staff Comments to Appendix C of the Technical Report MUAP-07024-P (ML092870776), and MHI's Matrix Incorporating RG 1.9 and IEEE 387 into Technical Report MUAP-07024-P, (ML092870777). The NRC staff will defer the review of these documents until after the receipt of Technical Report MUAP-07024-P, Revision 1.

3. MHI is requested to provide a letter to the NRC explaining the Seismic Qualification Plan. MHI will then provide an amended revision to Section 6 (Seismic Analysis) of Technical Report MUAP-07024-P, after Revision 1 of the report is submitted on October 31, 2009.
4. The NRC staff will issue a follow-up RAI under DCD Section 3.10 and other related sections to address the Seismic Analysis section of Technical Report MUAP-07024-P.

Members of the public were in attendance.

If you have any questions regarding this matter, I may be reached at 301-415-6695 or via e-mail at Ngola.Otto@nrc.gov.

/RA/

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US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactor

Docket No. 52-021

Enclosures:
As stated

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- 4. The NRC staff will issue a follow-up RAI under DCD Section 3.10 and other related sections to address the Seismic Analysis section of Technical Report MUAP-07024-P.

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Meeting with Mitsubishi Heavy Industries Ltd.(MHI) related to Technical Report MUAP-07024-P,
Qualification And Test Plan of Class 1E Gas Turbine Generator

Attendance Sheet

September 28, 2009

Name	Organization/Affiliation
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C.K Paulson	MNES
Hiroshi Shirasana	MNES
Ryan Sprengel	MNES
Amritpal Gill	NRC
Andy duBouchet	NRC
Bob Fitzpatrick	NRC
Ching Ng	NRC
Hossein Hamzehee	NRC
Jeffrey Ciocco	NRC
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Pei-Ying Chen	NRC
Robert Radlinski	NRC
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