

October 11, 2006

APPLICANT: MITSUBISHI HEAVY INDUSTRIES (MHI)

PROJECT: US-APWR STANDARD DESIGN PRE-APPLICATION REVIEW

SUBJECT: SUMMARY OF SEPTEMBER 26, 2006, PUBLIC MEETING IN WHICH MHI PROVIDED INFORMATION ON THE US-APWR STANDARD DESIGN

On September 26, 2006, the U.S. Nuclear Regulatory Commission (NRC) hosted a Category 1 public meeting in which representatives of Mitsubishi Heavy Industries (MHI) presented information about the US-APWR standard design. MHI personnel presented information on the US-APWR design features, safety design philosophy, computer codes and methodologies proposed for use for safety analyses, as well as a proposed plan for future interactions with the NRC staff. A list of meeting attendees is included as Enclosure 1. Enclosure 2 contains handouts provided by MHI at the meeting (ADAMS [Agencywide Documents Access Management System] Accession Number ML062750202). A summary of the meeting is provided below.

MHI personnel started the meeting by discussing the latest proposal for conducting meetings with the NRC staff and submitting topical reports for NRC staff review. MHI personnel also reiterated their intention to submit the US-APWR design certification (DC) application in December 2007, as also documented in MHI's letter to the NRC dated August 31, 2006 (ML062610430). MHI plans to submit the following topical reports (TRs) to the NRC: TR on the advanced accumulator in January 2007, TRs on Instrumentation and Controls (I&C) and human factors engineering (HFE) in February 2007, TRs on fuel system design criteria and thermal design methodologies in May 2007, and TRs on Safety Analysis Methodologies (loss-of-coolant accident (LOCA) and non-LOCA).

MHI personnel stated that they plan to reference already-approved codes and methodologies to support the US-APWR DC application. MHI personnel also stated that they intend to fully describe all aspects of the advanced accumulator including how it is modeled for accident and transient conditions in topical reports that will be submitted during the pre-application review.

MHI personnel provided some updates on topics discussed at the first public meeting on July 13, 2006 (see meeting summary, ADAMS Accession Number ML062150212). MHI personnel stated that they do not intend to use the Mitsubishi Developed Alloy as the fuel cladding for the purpose of supporting the DC application. Instead, the intention is to utilize Zirlo^(TM). Additionally, MHI personnel stated that many of the reactor vessel internals for the US-APWR are very similar in design to those the NRC staff has seen during the AP600/AP1000 DC review (see slide 48 in Enclosure 2).

The NRC staff provided feedback throughout the presentation, the most notable of which follows. The NRC staff reiterated that there should be sufficient fiscal year (FY) 2007 DC pre-application review resources to support the US-APWR but that there are currently no US-APWR-designated DC review resources budgeted for FY2008. Depending on the progression of the US-APWR pre-application review and when appropriate, the NRC staff will consult the Commission regarding resources to conduct a possible DC review of the US-APWR.

The NRC staff recommended that providing information on the MHI quality assurance program, consistent with the level of detail that has been submitted by other DC applicants during the pre-application review phase in the past, seems appropriate for the US-APWR. Another topic of NRC feedback was that a discussion of MHI's approach for generating technical specifications would be useful to the staff. Additionally the NRC staff expressed a desire to continue dialogue on the level of design detail that will be submitted to support the DC application in the areas of I&C and HFE.

Questions regarding this meeting can be directed to Larry J. Burkhart at 301-415-1311 or ljb3@nrc.gov.

/RA/

Larry J. Burkhart, Project Manager
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Division of New Reactor Licensing
Office of Nuclear Reactor Regulation

Project No.: 751

Enclosures:

1. Attendees List
2. MHI Meeting Handouts (ML062750202)

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Attendees

Public Meeting to Discuss
Mitsubishi Heavy Industries' (MHI's)
US-APWR

September 26, 2006

<u>Name</u>	<u>Affiliation</u>
Kiyoshi Yamauchi	MHI
Hiroshi Hamamoto	MHI
Makoto Takashima	MHI
Makoto Toyama	MHI
Kenji Umeda	MHI
Masahiko Kaneda	MHI
Masayuki Kambara	MHI
Katsunori Kawai	MHI
Kazuhiko Gakuhari	MHI
Toshisada Kato	MHI
C. Keith Paulson	MHI
Yasunobu Hasui	MNES
Shinji Kawanago	MNES
Takahiro Imamura	MNES
Barry Craig	MNES
Mark Beaumont	Washington Group
R.C. Olson	Enercon Services
Alan Levin	AREVA
Jenny Weil	McGraw Hill
Mike Moran	FPL
William Mills	NEC
Ashok Thadani	NEC

Enclosure 1

<u>Name</u>	<u>Affiliation</u>
Charles Brinkman	Westinghouse
Shinichi Hayafune	Energy USA
Hiroyuki Ryu	JEPIC
Ellis Merschoff	Talisman LLC
Jim Lieberman	Talisman LLC
John O'Neill	Pillsbury Winthrop Shaw Pittman
Paul Gaukler	Pillsbury Winthrop Shaw Pittman
David Matthews	NRC
Jose Calvo	NRC
Larry Burkhart	NRC
Tom Bergman	NRC
Milton Concepcion	NRC
Ed Throm	NRC
Richard McIntyre	NRC
Paul Prescott	NRC
Meralis Plaza-Toledo	NRC
J. Bongarra	NRC
Paul Rebstock	NRC
Eric Oesterle	NRC
Leroy Harding	NRC
Norbert Carte	NRC
Yuken Wong	NRC
Gursharan Singh	NRC
Don Dube	NRC
Josh Kaizer	NRC
John Tsao	NRC

<u>Name</u>	<u>Affiliation</u>
Nathanael Hudson	NRC
Joe Williams	NRC
Michelle Hart	NRC
Emmanuel Sayor	NRC
Ching Ng	NRC
Adam Hoffman	NRC
Paul Loesen	NRC
John M. Smith	NRC
Alison DeBree	NRC
Matt Chiramal	NRC
Joseph Colaccino	NRC
Patrick Sekerak	NRC
Jorge Hernandez	NRC
Mike Waterman	NRC

Enclosure 2:

MHI Meeting Handouts

ML062750202

Letter from Larry Burkhart, dated October 11, 2006

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