

January 3, 2008

APPLICANT: MITSUBISHI HEAVY INDUSTRIES AND LUMINANT

SUBJECT: SUMMARY OF THE JULY 18 AND 19, 2007, CATEGORY 3 PUBLIC WORKSHOP ON INSPECTIONS, TESTS, ANALYSES, AND ACCEPTANCE CRITERIA

On July 18 and 19, 2007, a two-day Category 3 public workshop was held between the U.S. Nuclear Regulatory Commission (NRC) staff and industry representatives at the Washington Hilton in Rockville, Maryland. Representatives from AREVA, Mitsubishi Heavy Industries (MHI), Mitsubishi Nuclear Energy Systems, Inc. (MNES), General Electric, Unistar Nuclear, Nuclear Energy Institute (NEI), Luminant Power, Washington Group International, Morgan Lewis, and Enercon participated in this workshop. A list of meeting attendees is provided as Enclosure 1. The purpose of this meeting was to provide an opportunity for a dialogue among industry stakeholders regarding the application of inspections, tests, analyses, and acceptance criteria (ITAAC) on design certification (DC) and combined license (COL) applications submitted under *Title 10 of the Code of Federal Regulations*, Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants." More detailed information is contained in the following NRC presentation slides that are available in the NRC's Agencywide Documents Access and Management System (ADAMS).

- ITAAC History and Implementation (ADAMS Accession No. ML072710336)
- ITAAC Format and Organization Issues (ADAMS Accession No. ML072710022)
- Appendix C, Detailed Review Guidance Fluid Systems Review Checklist (ADAMS Accession No. ML072710346)
- System 80+, 2.7.28 Potable and Sanitary Water Systems (ADAMS Accession No. ML072710342)
- ITAAC Problem, Residual Heat Removal System, AP1000 Design Control Document, Reactor Coolant System and Connected Systems (ADAMS Accession No. ML072710377)
- ITAAC Answer to Problem, AP1000 Design Control Document, System Based Design Description and ITAAC, Normal Residual Heat Removal System (ADAMS Accession No. ML072710354)
- US-APWR DCWG ITAAC Workshop-MHI Response to Homework Assignment (ADAMS Accession No. ML072710365)

The NRC staff opened the workshop by discussing the development of ITAACs and how they are implemented into the DC and COL applications. The NRC staff used a DC Potable and Sanitary Water System as an example to explain how ITAACs are implemented as part of the DC application. At the end of the first day, the NRC staff presented the attendees with a sample ITAAC homework problem involving the AP1000 DC Normal Residual Heat Removal System. The attendees were asked to develop a design commitment, acceptance criteria, and inspections, tests, and analyses for this particular AP1000 system. During the second day of this workshop, the NRC staff discussed the solution for the AP1000, ITAAC problem and obtained feedback from the attendees on how this problem should be resolved. MHI presented their proposed solution to the AP1000 ITAAC problem.

Members of the public were in attendance. Please direct any inquiries to me at 301-415-1544, or srm2@nrc.gov.

/RA/

Stephen Raul Monarque
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Enclosures:

1. List of Attendees
2. ITAAC History and Implementation (ADAMS Accession No. ML072710336)
3. ITAAC Format and Organization Issues (ADAMS Accession No. ML072710022)
4. Appendix C, Detailed Review Guidance Fluid Systems Review Checklist (ADAMS Accession No. ML072710346)
5. System 80+, 2.7.28 Potable and Sanitary Water Systems (ADAMS Accession No. ML072710342)
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8. US-APWR DCWG ITAAC Workshop-MHI Response to Homework Assignment (ADAMS Accession No. ML0727103652)

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OFFICE	PM:NRO:DNRL:NWE1	LA:NRO:DNRL:NWE1
NAME	SMonarque	KGoldstein
DATE	1/3/2008	12/28/07

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ATTENDEES
CATEGORY 3 PUBLIC WORKSHOP
TO DISCUSS INSPECTIONS, TESTS, ANALYSES, AND ACCEPTANCE CRITERIA.
July 18-19, 2007

Name	Affiliation	Name	Affiliation
Paul Delozier	Numark Associates, Inc.	Makoto Takashima	Mitsubishi Heavy Industries
Bill Watkins	Washington Group	Dana Hyde	Washington Group International
Al Passwater	Ameren	Dennis Buschbaum	Luminant Power
Keith Hoffman	USNRC/NRO/DE/CIB2	Satoshi Hanada	MNES
Beth Vail	Washington Group International	Takahiro Imamura	MNES
Masanori Onozuka	MNES	Andrew Johnson	MNES
Bill Coyle	Washington Group International	John Concklin	AREVA
Theresa Clark	NRC	Daniel Magnarelli	AREVA
Mike Canova	NRC/NRO/DNRL/NARP	Brian McIntyre	AREVA
Getachew Tesfaye	NRC/DNRL	Mauri Lemoncelli	Morgan Lewis
Al Wooten	Washington Group International	Thinh Dinh	NRC/NRO/DSRA/SFPT
Wesley Deschaine	NRC/NRO	Robert Radlinski	NRC/NRO/DSRA/SFPT
Andrzej Drozd	NRC/NRO	Russ Bell	NEI
Leslie Perkins	NRC/NRO	Richard Laur	NRC/NRO/DCIP/CCIB
Ilka Berrios	NRC/NRO	Eric Oesterle	NRC/NRO/DNRL/NGE1
Shawn Williams	NRC/NRO	Ray Reith	General Electric
George Cicotte	NRC/NRO/DCIP/CHB	Joshua Datko	Washington Group International
Syed I Haider	NRC/NRO/DSRA/SBCV	RCL Olson	Enercon
Richard Rasmussen	NRC/NRO/DCIP/CCIB	Hanh Phan	NRC/NRO/DSRA/SPLA
Blake Rice	NRC/NRO/DSRA/SBCV	Gerry Gulla	NRC/NRO/DSRA/SPLA
Malcolm Patterson	NRC/NRO/DSRA/SPLA	Joseph Colaccino	NRC/NRO
Leslie Kass	Nuclear Energy Institute	George Wunder	NRC/NRO/DNRL
Omid Tabatabai	NRC/NRO/DCIP	Kamalakar Naidar	NRC/NRO/DCIP/EQVB
Stanley Day	Unistar	Dennis Galvin	NRC/NRO/NGE1
Atsushi Kumaki	Mitsubishi Heavy Industries	Prosante Chowdhury	NRC/NSIR/DPR
Michael Bennett	MNES	Patricia Campbell	GE-Hitachi Nuclear America
Steve Blossom	STPNOC	Joe Mihacic	Unistar
Fred Rippee	WSMS	Stephen Monarque	NRC/NRO/DNRL