

February 28, 2013

Mr. Yoshiki Ogata, General Manager  
APWR Promoting Department  
Mitsubishi Heavy Industries, Ltd.  
16-5, Konan 2-Chome, Minato-Ku  
Tokyo, 108-8215 Japan

SUBJECT: SCHEDULE CHANGE FOR THE UNITED STATES - ADVANCED  
PRESSURIZED WATER REACTOR DESIGN CERTIFICATION

Dear Mr. Ogata:

The purpose of this letter is to inform you of a schedule change for the United States - Advanced Pressurized Water Reactor (US-APWR) Design Certification (DC) review. The schedule change is due to an increased scope of work associated with additional information provided or to be provided in support of the DC application.

The area contributing to the need for this revision of the review schedule is the seismic and structural analysis.

On October 12, 2012, Mitsubishi Heavy Industries, Ltd. (MHI) submitted to the U.S. Nuclear Regulatory Commission (NRC) a final completion plan for the seismic and structural analyses of the US-APWR standard design. Subsequently, MHI has provided to the NRC additional and revised information associated with the completion plan. The plan outlines MHI's commitment to submit (1) new and revised technical reports that reflect changes to both the plant configuration and the seismic analysis methodologies and results, including the soil-structure-interaction analysis and the sliding stability of the Reactor Building Complex and the Turbine Building, (2) interim and final updates to Revision 3 of the Design Control Document for Sections 3.7 and 3.8 and associated appendices reflecting changes resulting from the revised and new technical reports, and (3) responses to staff's request for additional information. The NRC staff has completed its acceptance review of the technical reports that have been submitted to date and is currently performing the technical review of those reports. Based on MHI's final seismic completion plan and additional schedule changes communicated to the staff through January 22, 2013, the NRC staff plans to complete its Phase 2 review of Sections 3.7 and 3.8 of the DC application and the associated technical reports by May 2014. The revised schedule assumes that the technical information submitted by MHI includes appropriate level of detail and is technically sufficient.

The staff understands that MHI is developing a closure plan for a fuel performance technical issue. When submitted, the staff will review the closure plan to confirm that the Phase 4 completion date can be achieved.

This review schedule includes audits of pertinent calculations and design reports. It does not include the review of four technical reports identified in Table 1-4, "Technical Reports for Other

Y. Ogata

- 2 -

DCD Sections,” in MHI letter UAP-HF-12280 (ML12290A009). The safety review of these four technical reports will be completed in Phase 4.

Given the circumstances described herein, the NRC staff has developed the revised milestones for the remaining review phases of the DC that are shown in the Enclosure entitled, “US-APWR Design Certification Application Review Milestones.” The schedule also includes a milestone for the DC rulemaking activities. The rulemaking milestone assumes that the rulemaking task will start at the end of Phase 4 and will last 12 ½ months, as described in SECY-09-0018, “Streamlining Design Certification Rulemakings,” dated January 30, 2009.

If you have any questions regarding this matter, please contact Mr. Jeffrey Ciocco, Lead Project Manager for the US-APWR DC application at (301) 415-6391, or via e-mail at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

**/RA/**

David B. Matthews, Director  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosure:  
As stated

cc w/encl: See next page

Y. Ogata

- 2 -

DCD Sections,” in MHI letter UAP-HF-12280 (ML12290A009). The safety review of these four technical reports will be completed in Phase 4.

Given the circumstances described herein, the NRC staff has developed the revised milestones for the remaining review phases of the DC that are shown in the Enclosure entitled, “US-APWR Design Certification Application Review Milestones.” The schedule also includes a milestone for the DC rulemaking activities. The rulemaking milestone assumes that the rulemaking task will start at the end of Phase 4 and will last 12 ½ months, as described in SECY-09-0018, “Streamlining Design Certification Rulemakings,” dated January 30, 2009.

If you have any questions regarding this matter, please contact Mr. Jeffrey Ciocco, Lead Project Manager for the US-APWR DC application at (301) 415-6391, or via e-mail at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

*/RA/*

David B. Matthews, Director  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosure:  
As stated

cc w/encl: See next page

**DISTRIBUTION:**

PUBLIC	RidsNroDsra	RidsNroDe	RidsAcraAcnwMailCenter
LB2 R/F	RidsNroDnrl	RidsOgcMailCenter	TBergman, NRO
D081	RidsNroDnrlLb2	RidsNroLACSmith	CAdler, NRO
RidsNroDe	RidsOpaMailCenter	RidsNroDarr	JCiocco, NRO

**ADAMS Accession No.: ML13029A364**

**NRO-002**

OFFICE	DNRL/LB2: PM	DNRL/LB2: LA	DNRL/LB2: BC
NAME	JCiocco	CMurphy*	HHamzehee
DATE	02/04/2013	01/29/2013	02/05/2013
OFFICE	NRO/DE: D	NRO/DNRL: DD	NRO/DNRL: D
NAME	TBergman	FAkstulewicz	DMatthews
DATE	02/07/2013	02/28/2013	02/28/2013

**OFFICIAL RECORD COPY**

### US-APWR Design Certification Application Review Milestones

<b>Task Description</b>	<b>Completion Date (Old Schedule)</b>	<b>Completion Date (Revised Schedule)</b>
Phase 1 - Preliminary Safety Evaluation Report (SER) and Request for Additional Information	Completed	Completed
Phase 2 - SER with Open Items	November 2013	May 2014
Phase 3 - Advisory Committee on Reactor Safeguards (ACRS) Review of SER with Open Items	March 2014	September 2014
Phase 4 - Advanced SER with No Open Items	August 2014	February 2015
Phase 5 - ACRS Review of Advanced SER with No Open Items	October 2014	April 2015
Phase 6 - Final SER	March 2015	September 2015
Final Design Certification Rule	August 2015	February 2016

Enclosure

DC Mitsubishi - US APWR Mailing List  
cc:

(Revised 11/28/2012)

Ms. Michele Boyd  
Legislative Director  
Energy Program  
Public Citizens Critical Mass Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Tony Robinson  
AREVA NP, Inc.  
3315 Old Forest Road  
Lynchburg, VA 24501

Mr. Robert E. Sweeney  
IBEX ESI  
4641 Montgomery Avenue  
Suite 350  
Bethesda, MD 20814

Mr. Gary Wright, Director  
Division of Nuclear Facility Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704

## DC Mitsubishi - US APWR Mailing List

### Email

acpasswater@aol.com (Al Passwater)  
APH@NEI.org (Adrian Heymer)  
atsushi\_kumaki@mhi.co.jp (Atsushi Kumaki)  
awc@nei.org (Anne W. Cottingham)  
bgattoni@roe.com (William (Bill) Gattoni)  
CumminWE@Westinghouse.com (Edward W. Cummins)  
cwaltman@roe.com (C. Waltman)  
david.hinds@ge.com (David Hinds)  
david.lewis@pillsburylaw.com (David Lewis)  
DeLaBarreR@state.gov (R. DeLaBarre)  
donald.woodlan@luminant.com (Donald Woodlan)  
eliza.seedcoalition@gmail.com (Elza Brown)  
erg-xl@cox.net (Eddie R. Grant)  
erin\_wisler@mnes-us.com (Erin Wisler)  
ewallace@nuscalepower.com (Ed Wallace)  
gcesare@enercon.com (Guy Cesare)  
hiroki\_nishio@mhi.co.jp (Hiroki Nishio)  
james1.beard@ge.com (James Beard)  
jerald.head@ge.com (Jerald G. Head)  
Joseph\_Hegner@dom.com (Joseph Hegner)  
joseph\_tapia@mnes-us.com (Joseph Tapia)  
jrappe@nuscalepower.com (Jodi Rappe)  
jrund@morganlewis.com (Jonathan Rund)  
karlg@att.net (Karl Gross)  
kevin\_lynn@mnes-us.com (Kevin Lynn)  
KSutton@morganlewis.com (Kathryn M. Sutton)  
kwaugh@impact-net.org (Kenneth O. Waugh)  
lchandler@morganlewis.com (Lawrence J. Chandler)  
lon.burnam@house.state.tx.us (Lon Burnam)  
m.goto@mnes-us.com  
maria.webb@pillsburylaw.com (Maria Webb)  
mark.a.giles@dom.com (Mark Giles)  
mark.beaumont@wsms.com (Mark Beaumont)  
masanori\_onozuka@mnes-us.com (Masanori Onozuka)  
masatoshi\_nagai@mnes-us.com (Masatoshi Nagai)  
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)  
media@nei.org (Scott Peterson)  
michael\_melton@mnes-us.com (Michael Melton)  
MSF@nei.org (Marvin Fertel)  
nirsnet@nirs.org (Michael Mariotte)  
Nuclaw@mindspring.com (Robert Temple)  
patriciaL.campbell@ge.com (Patricia L. Campbell)

## DC Mitsubishi - US APWR Mailing List

paul.gaukler@pillsburylaw.com (Paul Gaukler)  
Paul@beyondnuclear.org (Paul Gunter)  
pbessette@morganlewis.com (Paul Bessette)  
plarimore@talisman-intl.com (Patty Larimore)  
rebecca\_steinman@mnes-us.com (Rebecca Steinman)  
RJB@NEI.org (Russell Bell)  
ryan\_sprengel@mnes-us.com (Ryan Sprengel)  
sabinski@suddenlink.net (Steve A. Bennett)  
sfrantz@morganlewis.com (Stephen P. Frantz)  
stephan.moen@ge.com (Stephan Moen)  
strambgb@westinghouse.com (George Stramback)  
Tansel.Selekler@nuclear.energy.gov (Tansel Selekler)  
tgilder1@luminant.com (Tim Gilder)  
tmatthews@morganlewis.com (T. Matthews)  
tom.miller@hq.doe.gov (Tom Miller)  
trsmith@winston.com (Tyson Smith)  
Vanessa.quinn@dhs.gov (Vanessa Quinn)  
vijukrp@westinghouse.com (Ronald P. Vijuk)  
Wanda.K.Marshall@dom.com (Wanda K. Marshall)  
whorin@winston.com (W. Horin)  
yoshiki\_ogata@mhi.co.jp (Yoshiki Ogata)