

February 24, 2014

John W. Stetkar, Chairman
Advisory Committee on Reactor Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: CHAPTERS 6 AND 7 OF THE SAFETY EVALUATION REPORT WITH OPEN ITEMS FOR CERTIFICATION OF THE US-APWR (UNITED STATES-ADVANCED PRESSURIZED WATER REACTOR) DESIGN AND RELATED LONG-TERM CORE COOLING ISSUES

Dear Mr. Stetkar:

Thank you for the letter dated December 24, 2013, which provides the conclusions and recommendations of the Advisory Committee on Reactor Safeguards (ACRS) on selected elements of the design and analyses addressed in the safety evaluation report (SER) for Chapter 6, "Engineered Safety Features," and Chapter 7, "Instrumentation and Controls," of the United States-Advanced Pressurized Water Reactor Design Certification Document. The U.S. Nuclear Regulatory Commission (NRC) staff appreciates ACRS's concerns regarding the subject chapters and specific concerns related to the issues of long-term core cooling and the resolution of Generic Safety Issue-191, "Assessment of Debris Accumulation on PWR Sump Performance." As discussed during the 610th meeting of ACRS on December 5, 2013, the staff is currently working to resolve the open items associated with the review of Chapters 6 and 7.

The NRC staff's response to the conclusions and recommendations in the December 24, 2013, ACRS letter is enclosed. The enclosure lists each conclusion or recommendation in italics followed by the corresponding staff's response.

The NRC staff looks forward to further discussions with the ACRS when Mitsubishi Heavy Industries, Ltd. is ready to resume activity in these areas.

J. Stetkar

- 2 -

The NRC staff appreciates the willingness of ACRS to review the staff's SER with open items on a chapter-by-chapter basis during this phase of the review process. The staff looks forward to the next ACRS meeting.

Sincerely,

/RA/

Mark A. Satorius
Executive Director
for Operations

Docket No.: 52-021

Enclosure:
Conclusions and Recommendations

cc: Chairman Macfarlane
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff
SECY

J. Stetkar

- 2 -

The NRC staff appreciates the willingness of the ACRS to review the staff's SER with open items on a chapter-by-chapter basis during this phase of the review process. The staff looks forward to the next ACRS meeting.

Sincerely,

/RA/

Mark A. Satorius
Executive Director
for Operations

Docket No.: 52-021

Enclosure:
Conclusions and Recommendations

cc: Chairman Macfarlane
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff
SECY

DISTRIBUTION: G20130890

Docket No.: 52-021	RidsNroOd	RidsNroDnrl
Public	RidsOpaMailCenter	RidsEdoMailCenter
LB2 R/F	RidsOcaMailCenter	RidsNroDnrlLb2
D081	RidsOgcMailCenter	RidsAcrsAcnw_MailCTR
PBuckberg, NRO	RidsNroMailCenter	RidsNroLACSmith

ADAMS Accession No.:
ML13365A056

via email*

EDO-002

OFFICE	DNRL/LB2:PM*	DNRL/LB2:PM*	DNRL/LB2:PM*	DNRL/LB2:LA*
NAME	RReyes	WWard	PBuckberg	CMurphy
DATE	01/30/2014	01/30/2014	01/31/2014	01/27/2014
OFFICE	Tech Ed/ADM*	DNRL/LB2:BC*	DSRA/SCVB:BC	DE/ICE2:BC
NAME	JDougherty	SLee	McKirgan	IJung
DATE	01/16/2014	01/29/2014	01/27/2014	01/28/2014
OFFICE	DSRA/SRSB:BC	DE:D	DSRA/D	DSS/SCVB:BC
NAME	JDonoghue (JSchmidt for)	TBergman	CAder	RDennig
DATE	01/30/2014	01/29/2014	01/29/2014	01/28/2014
OFFICE	OGC*	DNRL:D	NRO:OD	EDO
NAME	AWilson	FAkstulewicz	GTracy(GHolahan for)	MSatorius
DATE	01/31/2014	02/03/2014	02/06/2014	02/24/2014

OFFICIAL RECORD COPY