16-5, KONAN 2-CHOME, MINATO-KU TOKYO, JAPAN

May 15, 2009

Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021 MHI Ref: UAP-HF-09231

Subject: MHI's Response to US-APWR DCD RAI No. 314-2365 Revision 1

Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the document entitled "MHI's Response to US-APWR DCD RAI No. 314-2365 Revision 1". The material in Enclosure 1 provides MHI's response to the NRC's "Request for Additional Information (RAI) 314-2365 Revision 1," dated April 2, 2009.

Please contact Dr. C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Energy Systems, Inc., if the NRC has questions concerning any aspect of this submittal. His contact information is provided below.

Sincerely.

Yoshiki Ogata

General Manager- APWR Promoting Department

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Mitsubishi Heavy Industries, Ltd.

Enclosures:

1. MHI's Response to US-APWR DCD RAI No. 314-2365 Revision 1 (non-proprietary)

CC: J. A. Ciocco C. K. Paulson

Contact Information

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Enclosure 1

UAP-HF-09231 Docket No. 52-021

MHI's Response to US-APWR DCD RAI No. 314-2365 Revision 1

May 2009

(Non-Proprietary)

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

5/15/2009

US-APWR Design Certification
Mitsubishi Heavy Industries
Docket No. 52-021

RAI NO .:

NO. 314-2365 REVISION 1

SRP SECTION:

15.06.01 - INADVERTENT OPENING OF A PWR PRESSURIZER

PRESSURE RELIEF VAVLE OR A BWR PRESSURE RELIEF

VALVE

APPLICATION SECTION: 15.6.1

DATE OF RAI ISSUE:

4/02/2009

QUESTION NO.: 15.6.1-1

Provide the transient curve for steam generator pressure verses time in the FSAR Section 15.6.1 analysis.

ANSWER:

The transient curve for steam generator pressure versus time for the DCD Subsection 15.6.1 analysis is shown below in Figure 15.6.1-1.1. The SG safety valve is modeled assuming 103% of the SG design pressure (1236 psia). This shows that the SG pressure is maintained well below 110% of design pressure.

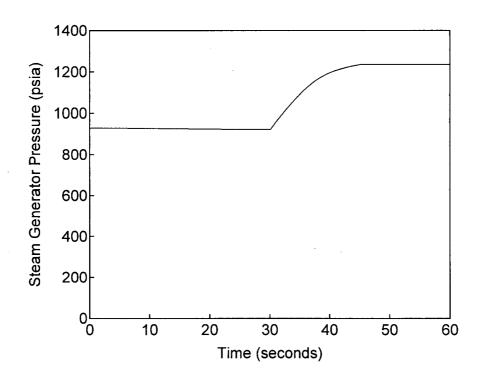


Figure 15.6.1-1.1 Steam Generator Pressure versus Time Inadvertent Opening of a Depressurization Valve

Impact on DCD

There is no impact on the DCD.

Impact on COLA

There is no impact on the COLA.

Impact on PRA

There is no impact on the PRA.