


MITSUBISHI HEAVY INDUSTRIES, LTD.
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TOKYO, JAPAN

December 31, 2007

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

Attention: Mr. R. William Borchardt
Director, Office of New Reactors

Project No.0751
MHI Ref: UAP-HF-07171


Subject: Submittal of US-APWR Design Control Document in Support of Mitsubishi Heavy Industries, Ltd.'s Application for Design Certification of the US-APWR Standard Plant Design

Pursuant to 10 C.F.R. § 52.47(a), Mitsubishi Heavy Industries, Ltd. ("MHI") is pleased to submit to the U.S. Nuclear Regulatory Commission ("NRC") its "Design Control Document for the US-APWR" ("DCD"). This document constitutes the final safety analysis report ("FSAR") for the US-APWR standard plant design required by 10 C.F.R. § 52.47(a) and is the integral part of MHI's Application for NRC certification of MHI's US-APWR Standard Plant Design.

The DCD is being submitted in two versions, each version on a separate compact disc. One version (on CD 1) includes certain information, designated pursuant to the Commission guidance as sensitive unclassified non-safeguards information, referred to as security-related information ("SRI"), that is to be withheld from public disclosure under 10 C.F.R. § 2.390. The information that is SRI is identified by brackets. The second version (on CD 2) omits the SRI and is suitable for public disclosure. In the public version of the DCD, the SRI is replaced by the designation "[Security-Related Information - Withheld Under 10 CFR 2.390]".

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,


Masahiko Kaneda
General Manager- APWR Promoting Department
Mitsubishi Heavy Industries, Ltd.

Enclosures:

1. DCD (SRI included version, December 2007) (CD 1)
2. DCD (SRI excluded version, December 2007) (CD 2)

The files contained in each CD are listed in Attachments 1 and 2 hereto.

DOB1
NRO

Contact Information

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ATTACHMENT 1

UAP-HF-07195

FILES CONTAINED IN CD 1 (SRI included version)
(CD TO BE WITHHELD FROM PUBLIC DISCLOSURE PURSUANT TO 10 C.F. R § 2.390)

File Name	Document No.	Title	Revision	Issue Date
Chapter 01_SRI.pdf	MUAP-DC001	Chapter 1 Introduction and General Description of the Plant	0	12/28/2007
Chapter 02.pdf	MUAP-DC002	Chapter 2 Site Characteristics	0	12/28/2007
Chapter 03_SRI.pdf	MUAP-DC003	Chapter 3 Design of Structures, Systems, Components and Equipment	0	12/28/2007
Chapter 04.pdf	MUAP-DC004	Chapter 4 Reactor	0	12/28/2007
Chapter 05_SRI.pdf	MUAP-DC005	Chapter 5 Reactor Coolant and Connecting Systems	0	12/28/2007
Chapter 06_SRI.pdf	MUAP-DC006	Chapter 6 Engineered Safety Features	0	12/28/2007
Chapter 07.pdf	MUAP-DC007	Chapter 7 Instrumentation and Controls	0	12/28/2007
Chapter 08_SRI.pdf	MUAP-DC008	Chapter 8 Electric Power	0	12/28/2007
Chapter 09_SRI.pdf	MUAP-DC009	Chapter 9 Auxiliary Systems	0	12/28/2007
Chapter 10.pdf	MUAP-DC0010	Chapter 10 Steam and Power Conversion System	0	12/28/2007
Chapter 11_SRI.pdf	MUAP-DC0011	Chapter 11 Radioactive Waste Management	0	12/28/2007
Chapter 12_SRI.pdf	MUAP-DC0012	Chapter 12 Radiation Protection	0	12/28/2007
Chapter 13.pdf	MUAP-DC0013	Chapter 13 Conduct of Operations	0	12/28/2007
Chapter 14.pdf	MUAP-DC0014	Chapter 14 Verification Program	0	12/28/2007
Chapter 15.pdf	MUAP-DC0015	Chapter 15 Transient and Accident Analyses	0	12/28/2007
Chapter 16.pdf	MUAP-DC0016	Chapter 16 Technical Specifications	0	12/28/2007
Chapter 17.pdf	MUAP-DC0017	Chapter 17 Quality Assurance and Reliability Assurance	0	12/28/2007
Chapter 18.pdf	MUAP-DC0018	Chapter 18 Human Factors Engineering	0	12/28/2007
Chapter 19.pdf	MUAP-DC0019	Chapter 19 Probabilistic Risk Assessment and Severe Accident Evaluation	0	12/28/2007
Tier1_SRI.pdf	MUAP-DC0020	Tier1	0	12/28/2007

ATTACHMENT 2

UAP-HF-07195

FILES CONTAINED IN CD 2 (SRI excluded version)

File Name	Document No.	Title	Revision	Issue Date
Chapter 01.pdf	MUAP-DC001	Chapter 1 Introduction and General Description of the Plant	0	12/28/2007
Chapter 02.pdf	MUAP-DC002	Chapter 2 Site Characteristics	0	12/28/2007
Chapter 03.pdf	MUAP-DC003	Chapter 3 Design of Structures, Systems, Components and Equipment	0	12/28/2007
Chapter 04.pdf	MUAP-DC004	Chapter 4 Reactor	0	12/28/2007
Chapter 05.pdf	MUAP-DC005	Chapter 5 Reactor Coolant and Connecting Systems	0	12/28/2007
Chapter 06.pdf	MUAP-DC006	Chapter 6 Engineered Safety Features	0	12/28/2007
Chapter 07.pdf	MUAP-DC007	Chapter 7 Instrumentation and Controls	0	12/28/2007
Chapter 08.pdf	MUAP-DC008	Chapter 8 Electric Power	0	12/28/2007
Chapter 09.pdf	MUAP-DC009	Chapter 9 Auxiliary Systems	0	12/28/2007
Chapter 10.pdf	MUAP-DC0010	Chapter 10 Steam and Power Conversion System	0	12/28/2007
Chapter 11.pdf	MUAP-DC0011	Chapter 11 Radioactive Waste Management	0	12/28/2007
Chapter 12.pdf	MUAP-DC0012	Chapter 12 Radiation Protection	0	12/28/2007
Chapter 13.pdf	MUAP-DC0013	Chapter 13 Conduct of Operations	0	12/28/2007
Chapter 14.pdf	MUAP-DC0014	Chapter 14 Verification Program	0	12/28/2007
Chapter 15.pdf	MUAP-DC0015	Chapter 15 Transient and Accident Analyses	0	12/28/2007
Chapter 16.pdf	MUAP-DC0016	Chapter 16 Technical Specifications	0	12/28/2007
Chapter 17.pdf	MUAP-DC0017	Chapter 17 Quality Assurance and Reliability Assurance	0	12/28/2007
Chapter 18.pdf	MUAP-DC0018	Chapter 18 Human Factors Engineering	0	12/28/2007
Chapter 19.pdf	MUAP-DC0019	Chapter 19 Probabilistic Risk Assessment and Severe Accident Evaluation	0	12/28/2007
Tier1.pdf	MUAP-DC0020	Tier1	0	12/28/2007