

September 12, 2011

MEMORANDUM TO: Hossein G. Hamzehee, Chief
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Ruth C. Reyes, Project Manager /RA/
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: THE U.S. NUCLEAR REGULATORY COMMISSION REPORT
FOR THE AUDIT PERFORMED ON MAY 19 - 23, 2011,
REGARDING THE UNITED STATES - ADVANCED
PRESSURIZED WATER REACTOR DESIGN CERTIFICATION
CHAPTER 19, SECTION 17.4 AND PROBABILISTIC RISK
ASSESSMENT

As part of its review of the United States - Advanced Pressurized Water Reactor Design Certification application, members of the Probabilistic Risk Assessment and Severe Accidents Branch, of the Division of Safety Systems and Risk Assessment performed an audit from May 19 - 23, 2011, at the office of Mitsubishi Nuclear Energy Systems, Inc., in Arlington, Virginia. The purpose of the audit was to examine information and documentation that is related to the low power and shutdown probabilistic risk assessment (PRA), internal fire PRA, internal flood PRA, Level 2 PRA, severe accident assessment, and impact of the Revision 3 of the PRA regarding the reliability assurance program risk-significant structures, systems, and components list.

The plan for this audit is documented and can be found in the Agencywide Documents Access and Management System (ADAMS) under accession number ML111320638, dated May 16, 2011. A list of attendees is provided as Enclosure 1. The results of the audit are documented in Enclosure 2; however, it contains proprietary information and therefore is not available to the public.

Docket No. 52-021

Enclosures:
As stated

cc w/encl 1: See next page

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Letter to Hossein Hamzehee from Ruth C. Reyes:

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Risk Assessment for the Audit Held on May 19, 2011

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Mohsen Khatib-Rahbar	Energy Research, Inc. (NRC contractor)
Jim Moody	ETRANCO
Hiroshi Goda	Mitsubishi Heavy Industries, Ltd.
Katsuya Kuroiwa	Mitsubishi Heavy Industries, Ltd.
Tsunetomo Mitsuhashi	Mitsubishi Heavy Industries, Ltd.
Takayuki Nirasawa	Mitsubishi Heavy Industries, Ltd.
Yasushi Yamamoto	Mitsubishi Heavy Industries, Ltd.
Russ Bywater	Mitsubishi Nuclear Energy Systems
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Jack Rosenthal	Talisman International
Edward Fuller	U.S. Nuclear Regulatory Commission
Todd Hilsmeier	U.S. Nuclear Regulatory Commission
Marie Pohida	U.S. Nuclear Regulatory Commission
Ruth Reyes	U.S. Nuclear Regulatory Commission

List of Attendees

US-APWR Design Certification Chapter 19, Section 17.4 and Probabilistic
Risk Assessment for the Audit Held on May 20, 2011

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Edward Fuller	U.S. Nuclear Regulatory Commission
Marie Pohida	U.S. Nuclear Regulatory Commission
Ruth Reyes	U.S. Nuclear Regulatory Commission
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List of Attendees

US-APWR Design Certification Chapter 19, Section 17.4 and Probabilistic
Risk Assessment for the Audit Held on May 23, 2011

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(Revised 08/25/2011)

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