

October 5, 2006

APPLICANT: AREVA NP

PROJECT: EPR PRE-APPLICATION REVIEW

SUBJECT: SUMMARY OF JULY 25, 2006, MEETING WITH AREVA NP REGARDING THE SEVERE ACCIDENT DESIGN OF THE EVOLUTIONARY POWER REACTOR

On July 25, 2006, a public meeting was held between representatives of the U.S. Nuclear Regulatory Commission (NRC) staff and AREVA NP (AREVA). The purpose of this meeting was to discuss the severe accident design and analysis of the AREVA's Evolutionary Power Reactor (EPR) design in preparation for a topical report submittal later this year. A list of meeting attendees is included as Enclosure 1. Enclosure 2 contains a redacted copy of handouts AREVA provided at the meeting (ADAMS [Agencywide Documents Access and Management System] Accession Number ML062690363) with proprietary information removed. A summary of the meeting is provided below.

AREVA described the EPR severe accident design as part of the defense-in-depth strategy applied to the design, focusing on maintenance of containment integrity. The containment is a large dry containment similar to existing pressurized water reactors, with some enhancements. Severe accident design features include the in-containment refueling water storage tank, the core melt retention system, dedicated reactor coolant system depressurization valves, and combustible gas controls. The shield building that surrounds the containment, spent fuel pool, control room, and two of the four engineered safeguards trains for protection from external hazards is not credited for mitigation of severe accidents. An overview of the severe accident design features can be found in the AREVA handouts.

AREVA plans to submit a topical report on the EPR severe accident design and analysis later this year, with the intent of demonstrating conformance with current regulatory guidance. Severe accident design features are intended to reduce the consequences of low probability events outside the scope of the licensing design basis. Components used exclusively for severe accident mitigation are not required to meet the qualification standards of components relied upon to mitigate design basis events.

Questions regarding this meeting can be directed to Joseph Williams at 301-415-1470 or at jfw1@nrc.gov.

*/RA/*

Joseph F. Williams, Senior Project Manager  
AP1000/EPR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

Project 733

Enclosures:

1. Attendees List
2. Meeting Handouts: (ML062690363)

cc: See next page

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**/RA/**

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ADAMS ACCESSION NO.: ML062700327 \*See previous concurrence

OFFICE	PM: NAPB	LA: NEPB	BC: NAPB
NAME	JWilliams	MViera	SCoffin
DATE	09/28/06	10/03/06	10/05/06

**OFFICIAL RECORD COPY**

Attendees

EPR Severe Accident Design and Analysis

July 25, 2006

Name	Organization
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Alan Levin	AREVA NP
Robert Martin	AREVA NP
Toney Mathews	AREVA NP
Stephen Mazurkiewicz	AREVA NP
Sandra Sloan	AREVA NP
Eric Williams	AREVA NP
Brue Cottom	consultant
Sud Basu	NRC
Larry Burkhart	NRC
Jose Calvo	NRC
Andrej Drozd	NRC
Michelle Hart	NRC
Kahtan Jabbour	NRC
Mark Melnicoff	NRC
Bob Palla	NRC
Mark Rubin	NRC
Marty Stutzke	NRC
Henry Wagage	NRC
Joe Williams	NRC
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