

March 16, 2006

APPLICANT: Framatome ANP

PROJECT: EPR PRE-APPLICATION REVIEW

SUBJECT: SUMMARY OF FEBRUARY 23, 2006, MEETING WITH FRAMATOME ANP  
REGARDING DESIGN ACCEPTANCE CRITERIA FOR THE EVOLUTIONARY  
POWER REACTOR (EPR)

On February 23, 2006, a public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Framatome ANP (FANP). The purpose of this meeting was to discuss FANP's plans to address design acceptance criteria (DAC) in the pre-application review and subsequent design certification application for the Evolutionary Power Reactor (EPR). A list of meeting attendees is included as Attachment 1. Attachment 2 contains handouts FANP provided at the meeting (ADAMS Accession Number ML060690022). A summary of the meeting is provided below.

FANP provided an update of the status of EPR activities. As design and construction of the Olkiluoto-3 (OL-3) plant proceeds in Finland, information is provided to FANP for conversion to U.S. codes, standards, and regulatory requirements. At the time of the meeting, 30 of a total of 145 system requirements documents, 27 of 68 piping and instrumentation diagrams, and 10 of 80 system design descriptions have been completed for the U.S. EPR.

Previous design certifications have made use of DAC to address topics where technology is rapidly changing (e.g., instrumentation and controls (I&C)) or where detailed engineering information is not available at the time of the certification application (e.g., piping design). DAC defines the design development process that will be applied when a combined license application references a certified design so that there is confidence that the detailed engineering will be conducted in an approved manner.

Recently, the NRC staff and companies interested in constructing new reactors have discussed how to increase the level of standardization in the next generation of plants. One means being discussed is addressing DAC generically, as opposed to an application-specific basis.

FANP's stated goal is a high threshold for DAC in the EPR design certification by completing a substantial portion of the design process during the design certification review. To facilitate this goal, FANP intends to submit DAC-like process descriptions for piping, I&C, and human factors for NRC review later this year. Assuming the NRC accepts of these process descriptions during the EPR pre-application review, the implementation of the processes could be assessed during the design certification application review as first-of-a-kind-engineering based on the OL-3 design conversion proceeds. It is expected this process will minimize DAC in the EPR design control document (DCD) which will be referenced in a design certification rule.

Use of DAC in previous design certification applications has been a policy decision requiring Commission approval. If the final EPR DCD does not include DAC, such a policy decision would not be required. However, NRC staff at the meeting stated that it could be desirable to inform the Commission on how FANP intends to address design process issues.

FANP personnel provided overviews of the design process and schedule for piping, I&C, and human factors engineering. Additional details on these topics is given in the handout material.

FANP plans to document its plans to address design process issues in a letter to NRC.

Questions regarding this meeting can be directed to Joseph Williams at 301-415-1470, or [jfw1@nrc.gov](mailto:jfw1@nrc.gov).

**/RA/**

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Project 733

Attachments: As stated

cc w/atts: See next page

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EPR

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Distribution: Meeting Summary Re: EPR Pre-Application Review, dated March 16, 2006

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EPR Pre-application Meeting

February 23, 2006

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Joe Turnage	Constellation
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