

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.

/RA/

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

Project 733

Attachments: As stated

cc w/atts: See next page

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.

/RA/

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

Project 733

Attachments: As stated

cc w/atts: See next page

ADAMS ACCESSION NO. ML060750131

OFFICE	PM:NRBA	BC:NRBA
NAME	JFWilliams	LDudes
DATE	03/16/2006	03/16/2006

OFFICIAL RECORD COPY

EPR

cc:

Mr. David Lochbaum, Nuclear Safety
Engineer
Union of Concerned Scientists
1707 H Street, NW., Suite 600
Washington, DC 20006-3919

Mr. Paul Gunter
Nuclear Information & Resource Service
1424 16th Street, NW, Suite 404
Washington, DC 20036

Mr. James Riccio
Greenpeace
702 H Street, Suite 300
Washington, DC 20001

Mr. Adrian Heymer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Mr. Paul Leventhal
Nuclear Control Institute
1000 Connecticut Avenue, NW
Suite 410
Washington, DC 20036

Dr. Jack W. Roe
Nuclear Energy Institute
1776 I Street, NW
Washington, DC 20006-3708

Mr. Brendan Hoffman
Research Associate on Nuclear Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Jerald S. Holm
Framatome ANP, Inc.
3315 Old Forest Road
P.O. Box 10935
Lynchburg, VA 24506-0935

Ms. Patricia Campbell
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. Charles Brinkman, Director
Washington Operations
Westinghouse Electric Company
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852

Mr. Glenn H. Archinoff
AECL Technologies
481 North Frederick Avenue
Suite 405
Gaithersburg, MD. 20877

Mr. Gary Wright, Manager
Office of Nuclear Facility Safety
Illinois Department of Nuclear Safety
1035 Outer Park Drive
Springfield, IL 62704

Mr. Ronald P. Vijuk
Manager of Passive Plant Engineering
AP1000 Project
Westinghouse Electric Company
P. O. Box 355
Pittsburgh, PA 15230-0355

Mr. Ed Wallace, General Manager
Projects
PBMR Pty LTD
PO Box 9396
Centurion 0046
Republic of South Africa

Mr. Russell Bell
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Ms. Kathryn Sutton, Esq.
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

E-Mail:

tom.miller@hq.doe.gov or
tom.miller@nuclear.energy.gov
jerald.holm@framatome-anp.com
mwetterhahn@winston.com
gcesare@enercon.com
eddie.grant@exeloncorp.com
whorin@winston.com
steven.hucik@ge.com
david.hinds@ge.com
chris.maslak@ge.com
james1beard@ge.com
louis.quintana@ge.com

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

ML060750131

Hard Copy

NRBA R/F

PUBLIC

WBeckner

LDudes

JWilliams

E-Mail:

PUBLIC

D. Matthews/WBeckner/JCalvo

E. Throm

H. Scott

Y. Hsii

S. Bajorek

G. Bagchi

E. Sullivan

C. Abbott

J. Danna

R. Denning

J. Flack

F. Eltawila

T. Mensah

N. Mamish

bhupinder.singh@hq.doe.gov

tom.miller@hq.doe.gov

bill.ascroft-hutton@hse.gsi.gov.uk

rzentkowskig@cnscccsn.gc.ca

kcrogers@aol.com

mod@inel.gov

jerald.holm@framatome-anp.com

Attendees

EPR Pre-application Meeting

February 23, 2006

Name	Affiliation
Lane Hay	Bechtel
Joe Mihalcik	Constellation
Tom Roberts	Constellation
Joe Turnage	Constellation
Thomas Crom	Framatome
Vic Fregonese	Framatome
Ray Ganthner	Framatome
Ronnie Gardner	Framatome
Alan Levin	Framatome
Brian McIntyre	Framatome
Sandra Sloan	Framatome
Joe Underwood	Framatome
J. Alan Beard	General Electric
Dan Barss	NRC
Matt Chiramal	NRC
Bill Kemper	NRC
Kendra Klump	NRC
Hulbert Li	NRC
Renee Li	NRC
Erasmis Lois	NRC
Harold Scott	NRC
Gabriel Taylor	NRC
Mike Waterman	NRC
Kent Welter	NRC
Beth Wetzel	NRC

Name	Affiliation
Joe Williams	NRC
Jerry Wilson	NRC
Russ Wells	Parallax