

January 23, 2008

MEMORANDUM TO: Eileen M. McKenna, Branch Chief
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

FROM: David H. Jaffe, Senior Project Manager **/RA/**
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: FORTHCOMING MEETING WITH WESTINGHOUSE REGARDING
HUMAN FACTORS AND INSTRUMENTATION AND CONTROL ISSUES
(REVISION 16 TO THE AP1000 DESIGN CONTROL DOCUMENT)

DATE & TIME: February 5-8, 2008

LOCATION: Westinghouse Electric Company
4350 Northern Pike
Monroeville, PA 15146

PURPOSE: The NRC staff and Westinghouse will discuss human factors and instrumentation and control issues as they relate to Revision 16 to the AP1000 Design Control Document.

CATEGORY 1: * This is a Category 1 meeting. The public is invited to observe only a limited part of this meeting and will have one or more opportunities to communicate with the NRC after the business portion, but before the meeting is adjourned. Most of the meeting is closed to the public due to the proprietary nature of the material under discussion. The enclosed schedule and agenda notes the public and closed parts of the meeting.

CONTACT: David H. Jaffe, NRO/DNRL
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*Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings,"
(67 FR 36920), May 28, 2002

E. McKenna

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PARTICIPANTS: Participants from the NRC include members from the Offices of New Reactors (NRO), Nuclear Reactor Regulation (NRR), and Office of Research (RES).

NRC

E. McKenna, et. Al.

Westinghouse Representatives

A. Sterdis, et al.

NOTE: Attendance at this meeting by members of the public may be pre-arranged by contacting David H. Jaffe by email at dhj@nrc.gov or by telephone at 301-415-1439 by 4:00 p.m., Friday, June 15, 2007, in order to arrange for access to the meeting location. If access is not pre-arranged: access for United States (U.S.) citizens may be gained on the day of the meeting by providing your name, Social Security, or Passport number, and presenting a government-issued photo identification at the reception desk of the Westinghouse facilities at 4350 Northern Pike, Monroeville, PA 15146; non-U.S. citizens will need to provide their name, date of birth, and present a government-issued photo identification.

Project No. 740

Enclosure:
Agenda

cc w/encl: See next page

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cc w/encl: See next page

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DATE	1/23/2008	1/23/08 (KGoldstein for)

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AP1000 NRC
Program Status Presentation
I&C/Human Factors Engineering
February 5-8, 2008

DRAFT AGENDA

Tuesday, February 5, 2008
DCD Chapter 7

Purpose of Chapter 7 Meeting

- Provide overview of design process and implementation including previously provide information (Brief new I&C Branch Chief and Reviewers on previously presented material)
- Summarize design progress since February 2007 NRC/Westinghouse Meeting
- Gain NRC Feedback on Design Certification Amendment Review Status
 - TR reviews
 - Revision 16 review
 - Open Item identification
 - Schedule

OPEN PUBLIC MEETING

8:00 a.m. Introduction/Meeting Overview

CLOSED PROPRIETARY MEETING

8:30 a.m. Overview of the Common Q Platform & Licensing
10:00 a.m. Break
10:15 a.m. Design & Implementation Overview
12:15 p.m. Lunch
1:15 p.m. High Level Architecture Overview
2:45 p.m. Break
4:15 p.m. Cyber Security
5:00 p.m. Adjourn

AP1000 NRC
Program Status Presentation
I&C/Human Factors Engineering
February 5-8, 2008

DRAFT AGENDA

Wednesday, February 6, 2008
DCD Chapter 7

8:00 a.m.	PMS Design
10:00 a.m.	Break
10:15 a.m.	Design Certification Amendment
	• Revision 16
	• Technical Reports
	• DAC
12:15 p.m.	Lunch
1:15 p.m.	NRC Review Status and Schedule
2:15 p.m.	Break
2:30 p.m.	Action Items

OPEN PUBLIC MEETING

3:00 p.m.	Chapter 7 Summary
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(CLOSED TO PUBLIC) OPEN TO NRC, CHAPTER 7 AND 18 ATTENDEES

3:15 p.m.	Main Control Room Simulator Demonstration
5:00 p.m.	Adjourn

AP1000 NRC
Program Status Presentation
I&C/Human Factors Engineering
February 5-8, 2008

DRAFT AGENDA

AP1000 Human Factors Engineering
Thursday February 7, 2008
DCD Chapter 18

- Purpose of Chapter 18 Meeting
 - Generally Address Status of DCD Revision Process/Licensing as it relates to Chapter 18.
 - To discuss Chapter 18 efforts undertaken since November, 2006 NRC Meeting
 - To present current status of AP1000 HFE Program by:
 - Discussing in detail all Technical Reports submitted to the NRC that address DCD Chapter 18 issues (COL Information items, etc.)
 - Discussing FSAR sections that address DCD Chapter 18 Issues
 - Generally address the evolving nature of technical report development in relation to Chapter 18 of the DCD
 - To provide context for submittals addressed above to facilitate NRC review
 - To provide an update on the status of Main Control Room/Main Control Area work (Utility Workshop, re-arrangement, phase II/III tests, ISV)
- Scope
 - DCD Chapter 18 items to be discussed will only include those DCD related items that were addressed by either Westinghouse or Enercon since the November, 2006 meeting.
 - Chapter 18 Rev. 15 sections that had no COL Information Items will not be discussed.

OPEN PUBLIC MEETING

8:00 a.m. Introduction/Agenda Review

8:15 a.m. DCD Revision Process/Licensing as it relates to Chapter 18

CLOSED PROPRIETARY MEETING

8:45 a.m. Present the Purpose and Scope of the HFE Program Discussion and the Method for Presenting DCD Related Work Efforts Since November 2006

9:00 a.m. DCD Section 18.2 (NUREG 0711 Element 1): HFE Program Management

- TR-72
- TR-90
- TR-136
- FSAR Section 18.2

AP1000 NRC
Program Status Presentation
I&C/Human Factors Engineering
February 5-8, 2008

DRAFT AGENDA

Thursday February 7, 2008
DCD Chapter 18

- 10:00 a.m. DCD Section 18.5 (NUREG 0711 Element 4): Task Analysis
- TR-81
 - TR-52
- 11:00 a.m. DCD Section 18.6 (NUREG 0711 Element 5): Staffing
- FSAR Section 18.6
- 12:00 p.m. Lunch
- 12:30 p.m. DCD Section 18.7 (NUREG 0711 Element 6): Integration of Human Reliability Analysis with HFE
- TR-59
- 1:00 p.m. DCD Section 18.8 (NUREG 0711 Element 7): Human System Interface Design:
- TR-82
 - TR-91: Human System Interface Design Guidelines
- 2:30 p.m. DCD Section 18.9 (NUREG 0711 Element 8): Procedure Development
- TR-70
- 3:00 p.m. DCD Section 18.10(NUREG 0711 Element 9): Training Program Development
- FSAR Section 18.10 and FSAR Section 13.2
- 3:30 p.m. DCD Section 18.11 (NUREG 0711 Element 10): HFE Verification and Validation
- TR-84, Rev. 1
- 4:00 p.m. DCD Section 18.14 (NUREG 0711 Element 12): Human Performance Monitoring
- FSAR Section 18.14
- 4:30 p.m. Summarize Meeting Minutes/Action Items

AP1000 NRC
Program Status Presentation
I&C/Human Factors Engineering
February 5-8, 2008

DRAFT AGENDA

Friday, February 8, 2008
DCD Chapter 18

- 8:00 a.m. Main Control Area/Main Control Room Development
- Phase II Test Results
 - MCA Workshop, Control Room Re-arrangement
 - Phase III Test Plan
- 9:30 a.m. Integrated System Validation Planning/Issues
- 10:30 a.m. NRC Status, Schedule and Review Open Items
- 11:30 a.m. Summarize Meeting Minutes/Action Items
- OPEN PUBLIC MEETING
- 12:00 p.m. Conclude Meeting
- 12:15p.m. Adjourn

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(Revised 01/23/08)

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