

September 18, 2009

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

FROM: Sikhindra Mitra, Project Manager
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

/RA/

SUBJECT: SUMMARY OF CATEGORY 1 PUBLIC MEETING (PART OF THE MEETING WAS CLOSED WHEN DISCUSSION WAS HELD ON WESTINGHOUSE PROPRIETARY INFORMATION) WITH WESTINGHOUSE ELECTRIC COMPANY REGARDING AP1000 DESIGN CONTROL DOCUMENT CHAPTER 7, "INSTRUMENTATION AND CONTROL SYSTEM", OPEN ISSUES AND THE AUDIT REPORT HELD IN ROCKVILLE, MARYLAND, ON JULY 16, 2009

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public meeting on July 16, 2009. Part of the meeting was closed when the discussion was held on Westinghouse Electric Company (WEC) trade secret and commercial or financial information (proprietary information). The Office of New Reactors (NRO) met with WEC representatives to discuss open issues and the audit report regarding AP1000 Instrumentation and Control System Design. The meeting was held at the NRC headquarters in Rockville, Maryland.

The NRC made brief opening comments, introductions were made by all in attendance and then WEC made a brief presentation. The NRC staff and the WEC representatives discussed the issues according to the enclosed agenda. The discussions resulted in the NRC and WEC action items (enclosed).

Enclosed with this summary are the materials relevant to this closed meeting. The enclosed documents are as follows: (1) agenda for the public meeting and (2) action items, and (3) attendee list.

Enclosures:
As stated

cc: See next page

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Meeting Agenda

Thursday, July 16, 2009

1:00 p.m. – 5:00 p.m.

AP1000 Design Control Document Chapter 7, I&C, discussion of open issues and audit report:

1:00 p.m.	Opening Remarks & Introductions	Open
1:15 p.m.	NRC letter of March 24, 2009	Open
1:30 p.m.	Protection and Safety Monitoring System (PMS) - Software Lifecycle (SLC) Design Acceptance Criteria (DAC) 1 Planning Phase Discussion Items	Close
3:30 p.m.	Break	
3:40 p.m.	PMS-SLC DAC 2 Requirements Phase Discussion Items	Close
4:45 p.m.	Opportunity for Public Comments	Open
5:00 p.m.	Adjourn	

Enclosure 1

Action Items

NRC Actions:

PMS:

1. NRC to provide any new questions based on review of newly submitted WEC material
2. NRC to provide WEC a list of unresolved Chapter 7 Request for Additional Information (RAIs)
3. NRC to review WEC DAC #1 documents and provide comments to WEC
4. NRC to inform WEC of status Safety Evaluation Report with Open Items (SER/OIs)
5. NRC to review WCAP-15927 regarding V&V team responsibilities for testing.

DAS:

1. None

WEC Actions:

General:

1. WEC to initiate a weekly phone call to NRC to discuss status of all action items from the July 16, 2009 meeting.

PMS:

1. WEC to provide a description in the AP1000 final safety evaluation report (FSAR) describing the completion of DAC 1 and DAC 2, and how the design effort addressed their design commitments.
2. WEC to ensure that all RAI responses were sufficiently captured in supporting design documentation.
3. WEC to arrange a conference call with the NRC regarding TR-88 and TR-89 (and related RAIs) to resolve NRC issues resulting from NRC PMS Action Item #2.
4. WEC to arrange a conference call with the NRC to discuss Cyber-Security information that requires docketing.
5. WEC will provide the CIM Functional Requirements and the Safety Remote Node Controller Requirements documents in the WEC Rockville office for NRC review.
6. WEC to submit RAI-SRP7.9-ICE-09 and RAI-SRP7 1-ICE-21 to NRC.

DAS:

1. WEC is to provide an analysis demonstrating that with DAS implementation, the limits of 10 CFR100 will not be exceeded. NRC requested an analysis that starts with common cause failure that, from DAS initiation to completion, 10 CFR100 not exceeded. (Reference BTP7.19, Section B, Items #3, Positions #1 and #2) WEC action to provide setpoint methodology (not necessarily like PMS). The 10% limit should not be exceeded. This analysis will be submitted on the docket.
2. WEC to provide expected completion date of setpoint methodology. (This action response will be included with DAS Action #1)
3. WEC will review and resolve the DAS wording inconsistencies in the DCD (Rev. 15, 16, and 17) with a particular focus on DCD Chapter 17 vs. Chapter 7.

4. WEC action to update WCAP-15775 to reflect latest conceptual design that fully addresses the SRP Section 7.8 and BTP 7-19 criteria.
5. WEC action to clarify wording in DCD Chapter 7 and Chapter 15 that applicant is crediting AMSAC circuitry to achieve DAS. Currently no reference in Chapter 7 that DAS meets AMSAC. Rework Chapter 15 wording and add to Chapter 7. This action item will also close the NRC request that was submitted to WEC via ML090090187.
6. WEC to demonstrate how the DAS system will respond to a single steam generator low level condition in the presence of a pre-existing known single level transmitted failure (Reference J-1 drawing + Chapter 16). (Reference 2002 Logic)

Attendee list

July 16, 2009

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(Revised 09/09/2009)

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