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Your ref: Docket No. 52-006  
Our ref: DCP/NRC2201

July 14, 2008

Subject: AP1000 Response to Request for Additional Information (SRP18)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 18. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in the responses is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

A response is provided for RAI-SRP18-COLP-06, as sent in an email from Dave Jaffe to Sam Adams dated June 3, 2008. This response completes six of fifteen requests received to date for SRP Section 18. A response to RAI-SRP18-COLP-01 through -05 was submitted under Westinghouse letter DCP/NRC2141 dated May 28, 2008.

Questions or requests for additional information related to the content and preparation of these responses should be directed to Westinghouse. Please send copies of such questions or requests to the prospective applicants for combined licenses referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

Very truly yours,

*John J. DeBlasio*

*for*/Robert Sisk, Manager  
Licensing and Customer Interface  
Regulatory Affairs and Standardization

/Enclosure

1. Response to Request for Additional Information on SRP Section 18

cc: D. Jaffe - U.S. NRC 1E  
E. McKenna - U.S. NRC 1E  
P. Ray - TVA 1E  
P. Hastings - Duke Power 1E  
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A. Monroe - SCANA 1E  
J. Wilkinson - Florida Power & Light 1E  
C. Pierce - Southern Company 1E  
E. Schmiech - Westinghouse 1E  
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ENCLOSURE 1

Responses to Requests for Additional Information on SRP Section 18

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

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RAI Response Number: RAI-SRP18-COLP-06  
Revision: 0

### **Question:**

AP1000 DCD Tier 1, ITAAC Table 3.2, Design Commitment 3 was changed to delete 4 of the 5 documents listed in the acceptance criteria section. Deletion was based on completion of the reports specified by the acceptance criteria. TR-82 (Execution and Documentation of the Human System Interface Design Implementation Plan) described completed design documents. The staff review of these documents identified the following questions:

1. AP1000 Human System Interface Design Guidelines (APP-OCS-J1-002 rev A, Oct 2006) Sections 16-28 were incomplete. Have the sections been completed in later revisions? The document indicates its scope will be extended in subsequent revisions to include local plant/field operations and Maintenance tasks. Has this been accomplished?
2. Examples of Design Specifications were requested (specifically APP-DDS-J4V-001, APP-DDS-J4V-002) but not included in the information provided at the Westinghouse Rockville office. Please explain the status of Design specifications in terms of work scope and schedule.
3. AP1000 Engineering Test Phase I Test Report (APP-OCS-T2R-020) provided a thorough explanation of Phase 1 testing and the test results including Westinghouse's conclusion that, "Phase 1 pilot testing was judged insufficient, so that more extensive pilot testing of models and scenarios should be done to prepare for phase 2." AP1000 Engineering Test Phase II Test Report (APP-OCS-T2R-022) was requested but not included in the information provided at the Westinghouse Rockville office. Please explain the status of Phase 2 testing and the availability of the associated report.
4. Please explain in more detail why Design Commitment 3 from ITAAC table 3.2-1 should be amended to remove the list of completed documents? The staff views these documents as part of the HSI design implementation plan. They contain the design acceptance criteria needed to complete the intent of the ITAAC – specifically to verify, "the design of the OCS was conducted in conformance with the implementation plan."

### **Westinghouse Response:**

1. Revision 0 of APP-OCS-J1-002 is completed with additional sections and is available for inspection/review.
2. Revision C of both APP-DDS-J4V-001 and APP-DDS-J4V-002 are completed and available for inspection/review.

# AP1000 TECHNICAL REPORT REVIEW

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3. Phase 2 testing has been completed and APP-OCS-T2R-022 is available for inspection/review.
4. WEC concurs that these documents are part of the HSI design implementation plan. They do contain design acceptance criteria needed to complete the intent of the ITAAC. The items identified for deletion in Design Commitment #3 from ITAAC table 3.2-1 have been produced as it states in section 5.2 of TR-82 and are available for inspection/review. WEC has satisfied this ITAAC item and the documents do not need to remain in the DCD.

### References:

1. APP-OCS-J1-002, Rev. 0, "AP1000 Human System Interface Design Guidelines"
2. APP-DDS-J4V-001, Rev. C, "AP1000 Display Design Specification"
3. APP-DDS-J4V-002, Rev. C, "AP1000 Specification of Static and Dynamic Elements for Displays"
4. APP-OCS-T2R-022, Rev. 0, "AP1000 Phase 2 Test Report"

### Design Control Document (DCD) Revision:

None

### PRA Revision:

None

### Technical Report (TR) Revision:

None