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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002577

July 31, 2009

Subject: AP1000 Response to Request for Additional Information (SRP 18)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 15. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in this response is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

Enclosure 1 provides the response for the following RAI(s):

RAI-SRP18-COLP-21

Questions or requests for additional information related to the content and preparation of this response 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,

A handwritten signature in black ink, appearing to read 'Robert Sisk'.

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. Donnelly	- U.S. NRC	1E
	T. Spink	- TVA	1E
	P. Hastings	- Duke Power	1E
	R. Kitchen	- Progress Energy	1E
	A. Monroe	- SCANA	1E
	P. Jacobs	- Florida Power & Light	1E
	C. Pierce	- Southern Company	1E
	E. Schmiech	- Westinghouse	1E
	G. Zinke	- NuStart/Entergy	1E
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ENCLOSURE 1

Response to Request for Additional Information on SRP Section 18

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP18-COLP-21

Revision: 0

Question:

COL information Item 18.2-2 from DCD Revision 17 removes COLA responsibility for the EOF/TSC HFE design that is outside the AP1000 scope. Westinghouse documentation (TR-136, "AP1000 Human Factors Program Implementation for the Emergency Operations Facility and Technical Support Center") indicates there is additional scope. Please explain why this change from Revision 16 is appropriate or revise the COL information item so it reflects the responsibility similar to how is characterized in Revision 15 (or Revision 16 or as discussed during the teleconference of 6/11/2009.)

To eliminate confusion between the Emergency Plan discussed in Chapter 13 and HFE design for the emergency response facilities addressed by this COL information item, the staff requests that Westinghouse consider removing the words from the information item that deal with EOF location. Location is addressed in NUREG 0654 & 0696, as well as commission guidance for EOFs at remote locations. The staff reviews implementation of this guidance as part of DCD Chapter 13 and Emergency Plan reviews. Also, the staff has not identified any interface between the EOF design and EOF location.

Westinghouse Response:

Westinghouse proposes to remove the words from COL information item 18.2-1 that deal with EOF location. The proposed revised wording for this COL Information item is provided below.

The Combined License information requested in this subsection has been partially addressed in Reference 9 (APP-GW-GLR-136). No additional work is required to address the information as delineated in the following paragraph:

Reference 9 captures the method by which the AP1000 Human Factors Engineering Program Plan (Reference 8) will be applied to TSCs and EOFs that support an AP1000 plant.

The following activities are to be addressed by the Combined License applicant:

Specific information regarding EOF and TSC communications, and EOF and TSC Human Factors attributes will be provided by the Combined Operating License applicant in accordance with NUREG-0654 and NUREG-696 to address the Combined License information requested in this subsection.

The following words represent the original Combined License Information Item commitment, which has been addressed as discussed above:

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

The Combined License applicant referencing the AP1000 certified design is responsible for designing the emergency operations facility, including specification of the location, in accordance with the AP1000 human factors engineering program.

Design Control Document (DCD) Revision:

DCD markup is provided below to indicate the proposed changes in Section 18.2.6.2. The markup is based on DCD Revision 17.

18.2.6.2 Emergency Operations Facility

The Combined License information requested in this subsection has been partially addressed in Reference 9 (APP-GW-GLR-136). No additional work is required to address the information as delineated in the following paragraph:

Reference 9 captures the method by which the AP1000 Human Factors Engineering Program Plan (Reference 8) will be applied to TSCs and EOFs that support an AP1000 plant.

The following activities are to be addressed by the Combined License applicant:

Specific information regarding ~~the location of the emergency operations facility and emergency operations facility communications~~ EOF and TSC communications, and EOF and TSC Human Factors attributes will be provided by the Combined Operating License applicant to address the Combined License information requested in this subsection.

The following words represent the original Combined License Information Item commitment, which has been addressed as discussed above:

The Combined License applicant referencing the AP1000 certified design is responsible for designing the emergency operations facility, including specification of the location, in accordance with the AP1000 human factors engineering program.

PRA Revision: None.

Technical Report (TR) Revision: None.