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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002650

October 8, 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 18. 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-25

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,

Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Enclosure

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

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NRO

cc:	D. Jaffe	-	U.S. NRC	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-25
Revision: 0

Question:

Section 4 of the ISV Plan states that participants will be qualified commercial PWR operators being trained on AP1000 operations. Their training includes both classroom and hands-on components. However, Section 1.3 of the plan indicates that crew training may be "limited." WCAP-15860 indicates that one week of training will be needed, but the ISV Plan does not address this.

Please provide specific information as to how much training the crews will have prior to ISV, and what criteria will be used to determine whether the crews have had sufficient training to be representative AP1000 operators.

Westinghouse Response:

The utilities' schedules for AP1000 operator training have yet to be finalized. Therefore, details on the qualifications and experience of the operators that will be available at the time of ISV can not be confirmed at this time. Based on current schedules, it is known that the training of fully qualified AP1000 operators will not be completed at the time of ISV, and the population of appropriately qualified and experienced subjects from the utilities will be limited. However, this RAI response describes WEC's current plans for ISV subjects based on information and training schedules provided by the WEC AP1000 Training Group. This information will be included in Revision C of the ISV Plan (31st January 2010), and will be updated in subsequent revisions when more detailed information becomes available and/or if the plan needs to be modified.

The subjects available for ISV will have completed the WEC AP1000 Senior Reactor Operator (SRO) Instructor Certification Program. The purpose of this 24 week program is to train utility instructors such that they can support the utilities licensed operator training schedules. The training program will provide previously SRO certified instructors, or aspiring instructor candidates, with detailed AP1000 system and plant knowledge in order to meet the technical requirements for instructing operations and other plant personnel. The participants will be selected by the utilities, based on work experience, qualifications and education.

The program provides SRO level knowledge without developing proficiency at task performance. The training content is derived from a review of the AP1000 Initial License Training Program, and the program will be presented using a combination of classroom instruction, self-study, classroom mockups, procedure walk through, computer and exercises using the Training Development Simulator (TDS) located at the WEC Cranberry Woods facility. The topics covered include the design and operation of the nuclear island systems, turbine island systems, electrical systems, instrumentation and control systems, rod control, plant

protection and monitoring, engineered safety features and passive systems. Successful training completion will be evaluated using written examinations, job performance measures and simulator dynamic examinations.

It will be the case that the ISV operators/subjects will have less task performance proficiency than will eventually be the case for fully qualified AP1000 operators. This is considered to be acceptable for ISV, because as a result, the tests will be relatively more demanding.

It is recognized that the information regarding the training for and the availability of the crews in ISV has altered from a number of the statements made in WCAP-15860 and the ISV plan. WEC would welcome a discussion with the NRC to address any concerns.

References:

None.

Design Control Document (DCD) Revision:

None.

PRA Revision:

None.

Technical Report (TR) Revision:

None.