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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002892

May 26, 2010

Subject: AP1000 Response to Open Item (Chapter 7)

Westinghouse is submitting the following responses to the NRC open item (OI) on Chapter 7. These proposed open item responses are submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in these responses 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 proposed Open Item(s):

OI-SRP-7.5-ICE-01 R1

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 Proposed Open Item (Chapter 7)

cc: D. Jaffe - U.S. NRC 1E
E. McKenna - U.S. NRC 1E
S. Mitra - 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
R. Grumbir - NuStart 1E
B. Seelman - Westinghouse 1E

ENCLOSURE 1

AP1000 Response to Proposed Open Item (Chapter 7)

AP1000 TECHNICAL REPORT REVIEW

Response to Open Item (OI)

RAI Response Number: OI-SRP-7.5-ICE-01
Revision: 1

Question: OI-SRP-7.5-ICE-01

7.5.5.1 Combined License Information and Tables 7.5-1 and 7.5-8 Section 7.5.5 of the AP1000 DCD states: "This section has no requirement for information to be provided in support of the Combined License (COL) application." Section 7.5, Tables 7.5-1 and 7.5-8, indicate that the meteorological parameters and environs radiation and radioactivity variables are "site specific." The staff requested clarification of this inconsistency in RAI-SRP7.5-ICE-02. The WEC response (ADAMS Accession No. ML0833600440) stated: "The words 'site specific' for environs radiation and radioactivity parameters indicate that these variables are site-related and are to be addressed by the COL applicant in the site emergency response plan identified in DCD Tier 2, Chapter 13, Section 13.3.1. Therefore, each COL applicant is to provide information for monitoring the meteorological parameters and environs radiation and radioactivity as appropriate." However, WEC did not modify Section 7.5.5 to indicate a COL action item regarding meteorological parameters and environs radiation and radioactivity instrumentation. The staff finds that a COL action item is needed for the referenced instrumentation. **The NRC staff identified this as OI-SRP-7.5-ICE-01.**

7.5.9 Evaluation Findings and Conclusions

Appendix D.II, "Definitions," to 10 CFR Part 52, defines COL action items (COL license information) as items that identify certain matters that applicants must address in the site specific portion of the FSAR. WEC has not selected the site-specific parameters required to meet 10 CFR 50.34(f)(2)(xvii) regarding accident monitoring instrumentation as a COL action item. Therefore, the staff finds the above requirements have not been met. **The NRC staff identified this as OI-SRP-7.5-ICE-01.**

Westinghouse Response: (Revision 0)

Combined License applicants referencing the AP1000 certified design will provide the information for variables listed as site specific in DCD Table 7.5-1. Section 7.5, Tables 7.5-1 and 7.5-8, indicate that the meteorological parameters and environs radiation and radioactivity variables are site specific. The words 'site specific' for environs radiation and radioactivity parameters indicate that these variables are site-related and are to be addressed by the COL applicant in site specific sections of Chapter 7. Each COL applicant will provide information for monitoring the meteorological parameters and environs radiation and radioactivity as appropriate.

Item 7.3 "Post Accident Monitoring System" will be added to DCD Tier 2 Table 1.8-1 and will be listed as an NSS (Non-Nuclear Safety) interface type, with the Matching Interface Item listed as "Combined License Applicant Coordination".

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In addition, Item 7.5-1 "Post Accident Monitoring", Subsection 7.5 will be added to DCD Tier 2 Table 1.8-2, "Summary of AP1000 Standard Plant Combined License Information Items". The "Action Required by Applicant" will be listed as "Yes", and the "Action Required by Holder" will be listed as "No".

Lastly, Tier 2 Chapter 7 Section 7.5.5 Combined License Information will be revised to identify that there is an action required by the COL Applicant.

Additional Westinghouse Response: (Revision 1)

This revision provides minor editorial changes to the DCD markup including correction of Interface Item Number in Table 1.8-1 and addition of Table 7.5-8 to the Combined License Information (Subsection 7.5.5), since this Table includes site specific items.

Combined License applicants referencing the AP1000 certified design will provide the information for variables listed as site specific in DCD Table 7.5-1. Section 7.5, Tables 7.5-1 and 7.5-8, indicate that the meteorological parameters and environs radiation and radioactivity variables are site specific. The words 'site specific' for environs radiation and radioactivity parameters indicate that these variables are site-related and are to be addressed by the COL applicant in site specific sections of Chapter 7. Each COL applicant will provide information for monitoring the meteorological parameters and environs radiation and radioactivity as appropriate.

Item 7.4 "Post Accident Monitoring System" will be added to DCD Tier 2 Table 1.8-1 and will be listed as an NSS (Non-Nuclear Safety) interface type, with the Matching Interface Item listed as "Combined License Applicant Coordination".

In addition, Item 7.5-1 "Post Accident Monitoring", Subsection 7.5 will be added to DCD Tier 2 Table 1.8-2, "Summary of AP1000 Standard Plant Combined License Information Items". The "Action Required by Applicant" will be listed as "Yes", and the "Action Required by Holder" will be listed as "No".

Lastly, Tier 2 Chapter 7 Section 7.5.5 Combined License Information will be revised to identify that there is an action required by the COL Applicant.

Reference(s):
None

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Design Control Document (DCD) Revision: (Revision 0, 1)

Table 1.8-1 (Sheet 3 of 7)				
SUMMARY OF AP1000 PLANT INTERFACES WITH REMAINDER OF PLANT				
Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
6.1	Inservice Inspection requirements for the containment	Requirement of AP1000	Combined License applicant program	6.2.1
6.2	Off site environmental conditions assumed for Main Control Room and control support area habitability design	AP1000 Interface	Site specific parameter	6.4
7.1	Listing of all design criteria applied to the design of the I&C systems	Not an Interface	N/A	7
7.2	Power required for site service water instrumentation	NNS and Not an Interface	N/A	7
7.3	Other provisions for site service water instrumentation	NNS and Not an Interface	N/A	7
7.4 3	Post Accident Monitoring System	NNS	Combined License Applicant Coordination	7.5.5
8.1	Listing of design criteria applied to the design of the offsite power system	NNS	Combined License applicant coordination	8

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8.2	Offsite ac requirements Steady-state load Inrush kVA for motors Nominal voltage Allowable voltage regulation Nominal frequency Allowable frequency fluctuation Maximum frequency decay rate Limiting under frequency value for RCP	NNS	Combined License applicant coordination	8
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Table 1.8-2 (Sheet 6 of 13)

SUMMARY OF AP1000 STANDARD PLANT COMBINED LICENSE INFORMATION ITEMS

Item No.	Subject	Subsection	Addressed by Westinghouse Document	Action Required by COL Applicant	Action Required by COL Holder
6.3-2	Verification of Containment Resident Particulate Debris Characteristics	6.3.8.2	APP-GW-GLR-079	No	No
6.4-1	Local Hazardous Gas Services and Monitoring	6.4.7	N/A	Yes	—
6.4-2	Procedures for Training for Control Room Habitability	6.4.7	N/A	Yes	—
6.4-3	Main Control Room Inleakage Test Frequency	6.4.7	APP-GW-GLR-007	No	No
6.6-1	Inspection Programs	6.6.9.1	N/A	Yes	—
6.6-2	Construction Activities	6.6.9.2	N/A	Yes	—
7.1-1	Setpoint Calculations for Protective Functions	7.1.6.1	WCAP-16361-P	No	No
7.1-2	Resolution of Generic Open Items and Plant-Specific Action Items	7.1.6.2	APP-GW-GLR-017	No	No
7.2-1	FMEA for Protection System	7.2.3	WCAP-16438-P WCAP-16592-P	No	No
7.5-1	Post Accident Monitoring	7.5.5	N/A	Yes	No
8.2-1	Offsite Electrical Power	8.2.5	N/A	Yes	—

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8.2-2	Technical Interfaces	8.2.5	N/A	Yes	–
8.3-1	Grounding and Lightning Protection	8.3.3	N/A	Yes	–
8.3-2	Onsite Electrical Power Plant Procedures	8.3.3	N/A	Yes	–
9.1-1	New Fuel Rack	9.1.6.1	APP-GW-GLR-026	No	No

Tier 2 Material

1.8-16

Revision 17

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7.5.5 Combined License Information

~~This section has no requirement for information to be provided in support of the~~ Combined License applicants ~~on~~ referencing the AP1000 certified design will provide the information for variables listed as site specific in DCD Tables 7.5-1 and 7.5-8.

PRA Revision:

None

Technical Report (TR) Revision:

None