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U.S. Nuclear Regulatory Commission ATTENTION: Document Control Desk

Washington, D.C. 20555

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Your ref: Docket No. 52-006 Our ref: DCP_NRC_003003

August 6, 2010

Subject: AP1000 Response to Request for Additional Information (SRP 19)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 19. These RAI responses are submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

Responses are provided for:

RAI-SRP19F-AIA-02	RAI-SRP19F-AIA-07
RAI-SRP19F-AIA-03	RAI-SRP19F-AIA-08
RAI-SRP19F-AIA-04	RAI-SRP19F-AIA-09
RAI-SRP19F-AIA-05	RAI-SRP19F-AIA-10
RAI-SRP19F-AIA-06	

Enclosure 1 contains sensitive unclassified non-safeguards information relative to the physical protection of an AP1000 Nuclear Power Plant that should be withheld from public disclosure pursuant to 10 CFR 2.390(d). Enclosure 2 provides the redacted version (public version).

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

D063

1. Security Related Information – Withhold Under 10 CFR 2.390 RAI-SRP19F-AIA-02 RAI-SRP19F-AIA-03 RAI-SRP19F-AIA-04 RAI-SRP19F-AIA-05 RAI-SRP19F-AIA-06 RAI-SRP19F-AIA-07 RAI-SRP19F-AIA-08 RAI-SRP19F-AIA-09 RAI-SRP19F-AIA-10 2. Redacted Version - Withheld Under 10 CFR 2.390 RAI-SRP19F-AIA-02 RAI-SRP19F-AIA-03 RAI-SRP19F-AIA-04 RAI-SRP19F-AIA-05 RAI-SRP19F-AIA-06 RAI-SRP19F-AIA-07 RAI-SRP19F-AIA-08 RAI-SRP19F-AIA-09 RAI-SRP19F-AIA-10 D. Jaffe - U.S. NRC 1E E. McKenna - U.S. NRC 1E S. Sanders - U.S. NRC 1E T. Spink - TVA 1E - Duke Power P. Hastings 1E R. Kitchen - Progress Energy 1E A. Monroe **SCANA** 1E P. Jacobs - Florida Power & Light 1E Southern Company C. Pierce 1E E. Schmiech - Westinghouse 1E G. Zinke - NuStart/Entergy 1E R. Grumbir - NuStart 1E

- Westinghouse

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T. Ray

cc:

ENCLOSURE 2

Redacted Version - Withheld Under 10 CFR 2.390

RAI-SRP19F-AIA-02 RAI-SRP19F-AIA-04 RAI-SRP19F-AIA-05 RAI-SRP19F-AIA-06 RAI-SRP19F-AIA-07 RAI-SRP19F-AIA-08 RAI-SRP19F-AIA-09 RAI-SRP19F-AIA-10

AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-02	
Question:		SRI
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AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

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Design Control Document (DCD) Revision:

See RAI-SRP19F-AIA-01 for DCD markup of Section 19F.4.3.

PRA Revision: None

Technical Report (TR) Revision: None

AP1000 TECHNICAL REPORT REVIEW

RAI Response Number:	RAI-SRP19F-AIA-03	
Revision: 0		
Question:		SRI
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Westinghouse Response:		CD.I
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AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

Design Control Document (DCD) Revision:

See RAI-SRP19F-AIA-01 for DCD markup of Section 19F.4.2 and Section 19F.4.4.

PRA Revision: None

Technical Report (TR) Revision: None



AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-04
Question:	SRI
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Westinghouse Response:	SRI



AP1000 TECHNICAL REPORT REVIEW

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Design Control Document (DCD) Revision:	
See RAI-SRP19F-AIA-01 for DCD markup of Section	ion 19F.4.2.
PRA Revision: None	
Technical Report (TR) Revision: None	

AP1000 TECHNICAL REPORT REVIEW

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RAI Response Number: Revision: 0	RAI-SRP19F-AIA-05	
Question:		SRI
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Westinghouse Response:		SRÍ
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Design Control Document	t (DCD) Revision:	
See RAI-SRP19F-AIA-01 fo	or DCD markup of Section 19F.4.2.	, .
PRA Revision: None		
Technical Report (TR) Rev	vision: None	



AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-06	
Question:		SRI
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Westinghouse Response:		SRI
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Design Control Document	(DCD) Revision:	
See RAI-SRP19F-AIA-01 for	DCD markup of Sections 19F.4.1 and 19F.4.2.	
PRA Revision: None		
Technical Report (TR) Rev	ision: None	



AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-07	
Question:		SRI
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Westinghouse Response	•	SRI
Design Control Documen	at (DCD) Revision: None	
PRA Revision: None		
Technical Report (TR) Re	evision: None	

AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-08	
Question:		SRI
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Westinghouse Response:		SRI
Design Control Document	(DCD) Revision:	
See RAI-SRP19F-AIA-01 for	r DCD markup of Sections 19F.4.2 and 19F.4.6.	
PRA Revision: None		
Technical Report (TR) Rev	vision: None	

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-09	
Question:		SRI
Westinghouse Response:		SRI
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Design Control Document	(DCD) Revision:	

Section 9.5.1.2.1.1

Outside of the primary containment and the main control room, the arrangement of plant equipment and routing of cable are such that safe shutdown can be achieved with all components (except those protected by 3-hour fire barriers) in any one fire area rendered inoperable by fire.

Openings and penetrations through fire barriers are protected in accordance with the guidelines of BTP CMEB 9.5-1. Penetrations through the following fire barriers are rated to withstand a differential pressure of 5 psid to support the conclusions in Appendix 19F:

- Wall I between column lines 4 and 5 from elevation 117'6" to 153'0"
- Wall 5 from elevation 100'0" to 153'0" These locations are depicted on DCD Figure 1.2-9, Nuclear Island General Arrangement Plan at Elevation 117'-6" with Equipment



AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

The fire protection analysis contains a description of plant fire areas, fire zones, fire barriers, and the protection of fire barrier openings, as well as a description of the separation between redundant safe shutdown components.

PRA Revision: None

Technical Report (TR) Revision: None



AP1000 TECHNICAL REPORT REVIEW

RAI Response Number: Revision: 0	RAI-SRP19F-AIA-10	
Question:		SRI
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Westinghouse Response:		
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Design Control Document Please refer to RAI-SRP19F	(DCD) Revision: -AIA-01 for the complete DCD markup.	
PRA Revision: None		
Technical Report (TR) Rev	ision: None	