



Westinghouse Electric Company
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U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
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Your ref: Docket No. 52-006
Our ref: DCP/NRC2126

April 25, 2008

Subject: AP1000 COL Response to Request for Additional Information (SRP8.2)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on Standard Review Plan (SRP) Section 8.2. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in the response 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-SRP8.2-EEB-02 as sent in an email from Billy Gleaves to Sam Adams dated March 17, 2008. This response completes all requests received to date for SRP Section 8.2. Responses to RAI-SRP8.2-EEB-01 and -03 were submitted under Westinghouse letter DCP/NRC2123 dated April 22, 2008.

Pursuant to 10 CFR 50.30(b), the response to the request for additional information on SRP Section 8.2, is submitted as Enclosure 1 under the attached Oath of Affirmation.

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 'D. Sisk' followed by a flourish and the letters 'ROR'.

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

DO63
N120

/Attachment

1. "Oath of Affirmation," dated April 25, 2008

/Enclosure

1. Response to Request for Additional Information on SRP Section 8.2

cc:	B. Gleaves	- U.S. NRC	1E	1A
	E. McKenna	- U.S. NRC	1E	1A
	P. Ray	- TVA	1E	1A
	P. Hastings	- Duke Power	1E	1A
	R. Kitchen	- Progress Energy	1E	1A
	A. Monroe	- SCANA	1E	1A
	J. Wilkinson	- Florida Power & Light	1E	1A
	C. Pierce	- Southern Company	1E	1A
	G. Zinke	- NuStart/Entergy	1E	1A
	R. Grumbir	- NuStart	1E	1A
	E. Schmiech	- Westinghouse	1E	1A
	M. Demaglio	- Westinghouse	1E	1A

ATTACHMENT 1

“Oath of Affirmation”

ATTACHMENT 1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of:)
AP1000 Design Certification Amendment Application)
NRC Docket Number 52-006)

APPLICATION FOR REVIEW OF
"AP1000 GENERAL INFORMATION"
FOR DESIGN CERTIFICATION AMENDMENT APPLICATION REVIEW

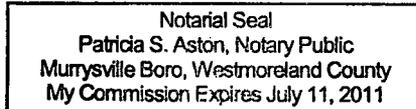
W. E. Cummins, being duly sworn, states that he is Vice President, Regulatory Affairs & Standardization, for Westinghouse Electric Company; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission this document; that all statements made and matters set forth therein are true and correct to the best of his knowledge, information and belief.



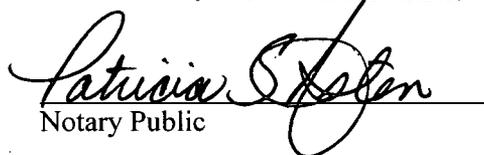
W. E. Cummins
Vice President
Regulatory Affairs & Standardization

Subscribed and sworn to
before me this *25th* day
of April 2008.

COMMONWEALTH OF PENNSYLVANIA



Member, Pennsylvania Association of Notaries



Notary Public

ENCLOSURE 1

Response to Request for Additional Information on SRP Section 8.2

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP8.2-EEB-02
Revision: 0

Question:

Describe the design features provided to prevent connection of the alternate power on to a faulted bus when the buses are fast transferred from the unit auxiliary transformer to the reserve auxiliary transformers.

Westinghouse Response:

The AP1000 automatic bus transfer scheme is based on initiation from a fault in the zone defined inside the first offsite breaker, the generator circuit breaker, and the normal feeder breakers of the medium voltage busses. Neither a fault on the medium voltage busses, nor an undervoltage condition on the medium voltage busses as a result of a bus fault, is a bus transfer initiating event.

The medium voltage busses have a bus differential protective function. This bus differential feature will provide a signal to both trip open and block closing of the breakers (to include both the normal and alternate bus feeder breakers) on a faulted bus through a lockout relay. Therefore, once the bus differential and lockout relaying has initiated, a normal to alternate bus transfer will be blocked from occurring, thereby preventing the connection of the alternate (reserve) power source to a faulted bus.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None