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U.S. Nuclear Regulatory Commission
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Your ref: Project Number 740
Our ref: DCP/NRC2052

December 7, 2007

Subject: AP1000 COL Responses to Requests for Additional Information (TR 79)

In support of Combined License application pre-application activities, Westinghouse is submitting responses to the NRC requests for additional information (RAIs) on AP1000 Standard Combined License Technical Report 79, APP-GW-GLN-079, Revision 1, Electrical System Design Changes. These RAI responses are submitted as part of the NuStart Bellefonte COL Project (NRC Project Number 740). The information included in the responses is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification.

Responses are provided for RAI-TR79-EEB-01 and -02 as agreed upon during a teleconference between Dave Jaffe and Sam Adams on November 8, 2007. These responses complete all requests received to date for Technical Report 79.

Pursuant to 10 CFR 50.30(b), the responses to the requests for additional information on Technical Report 79, are submitted as Enclosure 1 under the attached Oath of Affirmation.

Questions or requests for additional information related to the content and preparation of these responses 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,

Monte O'Buttley FOR

A. Sterdis, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Attachment

1. "Oath of Affirmation," dated December 7, 2007

/Enclosure

1. Responses to Requests for Additional Information on Technical Report No. 79

cc:	D. Jaffe	- U.S. NRC	1E	1A
	E. McKenna	- U.S. NRC	1E	1A
	G. Curtis	- TVA	1E	1A
	P. Hastings	- Duke Power	1E	1A
	C. Ionescu	- Progress Energy	1E	1A
	A. Monroe	- SCANA	1E	1A
	J. Wilkinson	- Florida Power & Light	1E	1A
	C. Pierce	- Southern Company	1E	1A
	E. Schmiech	- Westinghouse	1E	1A
	G. Zinke	- NuStart/Entergy	1E	1A
	R. Grumbir	- NuStart	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:)
NuStart Bellefonte COL Project)
NRC Project Number 740)

APPLICATION FOR REVIEW OF
"AP1000 GENERAL COMBINED LICENSE INFORMATION"
FOR COL APPLICATION PRE-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.



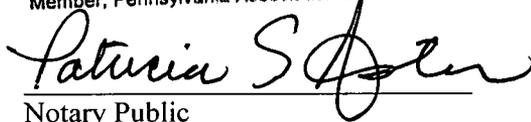
W. E. Cummins
Vice President
Regulatory Affairs & Standardization

Subscribed and sworn to
before me this 7th day
of December 2007.

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal
Patricia S. Aston, Notary Public
Murrysville Boro, Westmoreland County
My Commission Expires July 11, 2011

Member, Pennsylvania Association of Notaries


Notary Public

ENCLOSURE 1

Responses to Requests for Additional Information on Technical Report No. 79

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-TR79-EEB-01
Revision: 0

Question:

Provide justification for changes made in TR 79 on Pages 8.3-10 and 11 (Section 8.3.1.1.6) with regard to electrical penetrations.

Westinghouse Response:

The changes to the description of the electrical penetration assemblies are to allow for a selection from amongst the qualified products that meet IEEE-317. The previous wording was specific to a particular product in it's use of terms such as "nozzle" and "module" and was not generic to the functional description of those terms as described in IEEE-317.

Additionally, the description (in section 8.3) allowed for signals of varying voltage service levels to be in seperate "modules" (epoxy feedthroughs) within a "nozzle" (assembly containing multiple modules), when utilizing a design descriptive of an epoxy type assembly construction. This is not consistent with the AP1000 design. As can be seen from Table 2.2.1-1 of Tier 1 the current design is to specify the service level (last alpha character in the tag number for electrical penetration assemblies) to a specific penetration and to keep the respective class of signal in each correct assembly.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information

RAI Number: RAI-TR79-EEB-02
Revision: 0

Question:

Westinghouse has added a fast bus transfer to the AP1000 design. TR79 states that the bus transfer will be either automatic or manual. At what stage in the design process will selection of bus transfer method be made?

Westinghouse Response:

The selection of the fast bus transfer method has already been made.

The fast bus transfer occurs automatically under a fault in the zone of the switchyard breaker/ generator circuit breaker/ normal incoming feeder breakers from the unit aux transformers to the medium voltage busses.

For all other live bus conditions the transfer is initiated manually through an operator initiated action with sync control.

Design Control Document (DCD) Revision:
None

PRA Revision:
None

Technical Report (TR) Revision:
None