



Westinghouse Electric Company
Nuclear Power Plants
P.O. Box 355
Pittsburgh, Pennsylvania 15230-0355
USA

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, D.C. 20555

Direct tel: 412-374-6306
Direct fax: 412-374-5005
e-mail: sterdia@westinghouse.com

Your ref: Project Number 740
Our ref: DCP/NRC2038

November 9, 2007

Subject: AP1000 COL Response to Requests for Additional Information (TR 131)

In support of Combined License application pre-application activities, Westinghouse is submitting a response to the NRC request for additional information (RAI) on AP1000 Standard Combined License Technical Report 131, APP-GW-GLN-131, "Miscellaneous AP1000 Design Changes". This RAI response is 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.

A response is provided for RAI-TR131-SPCV-01 as finalized in a phone call between Don Lindgren, John Segala and Chris Jackson on October 29, 2007. These responses complete all requests received to date for Technical Report 131.

Pursuant to 10 CFR 50.30(b), the response to the request for additional information on Technical Report 131, is 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,

A handwritten signature in black ink, appearing to read "A. Sterdis".

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

D063
D079

MRO

/Attachment

1. "Oath of Affirmation," dated November 9, 2007

/Enclosure

1. Response to Requests for Additional Information on Technical Report No. 131

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
	C. Brockhoff	- 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

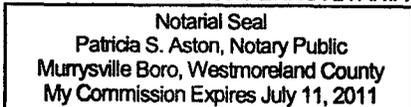
W. E. Cummins, being duly sworn, states that he is Vice President, Regulatory Affairs & Standardization, for Westinghouse Electric Company; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission this document; that all statements made and matters set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



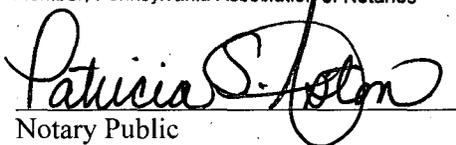
W. E. Cummins
Vice President
Regulatory Affairs & Standardization

Subscribed and sworn to
before me this *9th* day
of November 2007.

COMMONWEALTH OF PENNSYLVANIA



Member, Pennsylvania Association of Notaries



Notary Public

ENCLOSURE 1

Response to Requests for Additional Information on Technical Report No. 131

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information

RAI Number: RAI-TR131-SPCV-01
Revision: 0

Question:

The following information related to Change 3 was provided on page 4 of TR-131.

"Change 3: Move VES Refill Line from VES (Control Room Habitability System) to CAS (Compressed and Instrument Air System).

The VES refill line is used 72 hours after an accident and therefore is not necessary to accomplish the safety mission of the VES. However, it is still desirable to have, so the refill line is now a capped connection in the CAS. This change had been made in DCD revision 15, however Tier 2 table 3.2-3 had not been updated to reflect the change. This report corrects this inconsistency."

Please clarify how the safety-related functions of the VES and CAS, and isolation between the CAS and VES are maintained following this design change.

Westinghouse Response:

This VES design change was implemented as a VES simplification to:

- Eliminate unnecessary safety-related VES valves and piping lines by removing two of three parallel air filling paths that originally existed between the CAS and the VES
- Move the portable self-contained breathing apparatus (SCBA) refilling connection (a nonsafety-related function) from a safety-related VES piping line to a nonsafety-related CAS piping line (upstream of the CAS to VES connection)

These three paths provided two separate paths to refill the four VES air storage tank groups, and a third refilling connection originating in the existing safety-related VES refill piping to perform nonsafety-related SCBA refilling. Eliminating the unnecessary VES refill line did NOT have any impact on the isolation capability of the original line that was retained.

Moving the SCBA refill connection to the nonsafety-related CAS piping eliminated the redundant safety-related isolation valves in two VES refill lines needed to protect the VES air storage tanks from inadvertent venting from the SCBA refill connection line.

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information

This VES design change does NOT:

- Have any impact on the safety design basis or capability of the VES air storage tanks to provide main control room envelope pressurization
- Have any impact on the nonsafety-related design basis or capability of the CAS high-pressure air subsystem to initially fill, periodically refill, and provide post-72 hour refill of the VES air storage tanks, or to refill plant SCBAs when required
- Change the design basis isolation capability between the CAS and the VES (which assures functionality of the VES air banks following design basis actuation)

The VES air storage tanks are designed to support the safety design basis functions discussed in DCD 6.4.1.1 through pressurization of the main control room envelope. The operability of the VES air storage tanks, as controlled by Technical Specification 3.7.6, are maintained prior to an event by periodically refilling them with breathable air from the nonsafety-related CAS high-pressure air subsystem to compensate for minor standby air leakage due to system VES valve seat or packing leakage.

The standby VES air storage tank refilling operation using the CAS is expected to be relatively infrequent, and is manually aligned and initiated when the VES air pressure begins to approach the minimum Technical Specification limit.

This VES design change to eliminate one of the two parallel refilling flow paths for the VES tanks simplifies the operator VES and SCBA refill tasks by eliminating valves operations in the flow paths that are removed, with no change to the original VES design basis isolation in the refill path that is retained. Therefore, this change does NOT change the safety design isolation between the CAS and VES or the non-safety capability of the CAS to maintain or refill VES air storage tanks (either prior to an event or for the post-72 hour refill after an event).

As discussed in DCD 9.3.1.1.1, the CAS has no safety-related functions. The CAS high-pressure subsystem is designed to support the nonsafety-related design basis functions discussed in DCD 9.3.1.2.1 to provide air for the VES air storage tanks and the portable fire fighting SCBA air bottles, and to recharge the main generator breaker air reservoir. Therefore, moving the nonsafety-related SCBA refill connection from safety-related VES piping to the nonsafety-related CAS piping has no impact on the CAS design basis.

DCD Table 3.2-3 was updated in TR-131 update to reflect elimination of the isolation check valves.

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information

Design Control Document (DCD) Revision:
None

PRA Revision:
None

Technical Report (TR) Revision:
None