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U.S. Nuclear Regulatory Commission  
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Your ref: Project Number 740  
Our ref: DCP/NRC2047

November 21, 2007

Subject: AP1000 COL Standard Technical Report Submittal of APP-GW-GLR-045, Revision 1 (TR 57)

In support of Combined License application pre-application activities, Westinghouse is submitting Revision 1 of AP1000 Standard Combined License Technical Report Number 57. This report completes and documents, on a generic basis, activities required for Combined Operating License (COL) Information Item 3.7-4 in the AP1000 Design Control Document. This report contains both changes that are included in Revision 16 of the DCD and changes to Revision 16 of the DCD. The proposed changes to Revision 16 will be incorporated in a future revision of Technical Report 134. The purpose of this Revision to TR57 is to reconcile and update critical sections design and analysis to conform to the revised seismic analysis report, APP-GW-S2R-010 (TR03), Revision 1, "Extension of Nuclear Island Seismic Analysis to Soil Sites", dated September 2007. The following three critical Sections associated with the Shield Building Roof were in Revision 0 of TR 57 have not been included in this submittal:

- Section 2.2.2.6.1 Tension Ring
- Section 2.2.2.6.2 Columns between Air Inlets
- Section 2.2.2.6.3 Exterior Wall of the Passive Containment Cooling System Tank

These sections require additional design resolution relevant to the design changes that are required in support of the Shield Building Design Enhancement.

Westinghouse will provide a schedule for the submittal of these critical sections within the next two weeks.

This report is submitted as part of the NuStart Bellefonte COL Project (NRC Project Number 740). The information included in this report is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification.

The purpose for submittal of this report was explained in a March 8, 2006 letter from NuStart to the NRC.

Pursuant to 10 CFR 50.30(b), APP-GW-GLR-045, Revision 1, "Nuclear Island: Evaluation of Critical Sections," (Technical Report Number 57), is submitted as Enclosure 1 under the attached Oath of Affirmation. Revision 0 of TR57 was submitted on April 5, 2007 under Westinghouse letter DCP/NRC1847. APP-GW-GLR-045-NS (Redacted Version), Revision 1, is submitted as Enclosure 2.

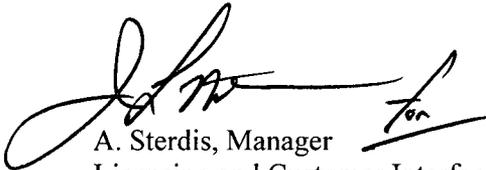
Enclosure 1 contains sensitive unclassified non-safeguards information relative to the physical protection of an AP1000 Nuclear Power Plant that should be withheld from public disclosure pursuant to 10 CFR 2.390(d). Enclosure 2 is a redacted version of Enclosure 1.

It is expected that when the NRC review of Technical Report Number 57 is complete, COL Information Item 3.7-4 will be considered complete for COL applicants referencing the AP1000 Design Certification.

Questions or requests for additional information related to content and preparation of this report 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.

Westinghouse requests the NRC to provide a schedule for review of the technical report within two weeks of its submittal.

Very truly yours,



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

/Attachment

1. "Oath of Affirmation," dated November 21, 2007

/Enclosures

1. APP-GW-GLR-045, Revision 1, "Nuclear Island: Evaluation of Critical Sections," Technical Report Number 57
2. APP-GW-GLR-045-NS (Public Version), Revision 1, " Nuclear Island: Evaluation of Critical Sections," Technical Report Number 57

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
	N. Prasad	- 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 )

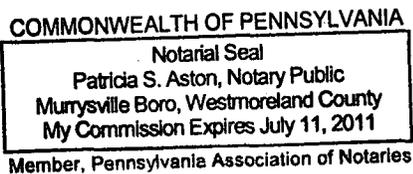
APPLICATION FOR REVIEW OF  
"AP1000 GENERAL COMBINED LICENSE INFORMATION"  
FOR COL APPLICATION PRE-APPLICATION REVIEW

W. E. Cummins, being duly sworn, states that he is Vice President, Regulatory Affairs and 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 and Standardization

Subscribed and sworn to  
before me this 21<sup>st</sup> day  
of November 2007.



Notary