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U.S. Nuclear Regulatory Commission
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Your ref: Project Number 740
Our ref: DCP/NRC2009

September 27, 2007

Subject: AP1000 COL Standard Technical Report Submittal of APP-GW-GLN-112 (TR 112)

In support of Combined License application pre-application activities, Westinghouse is submitting AP1000 Standard Combined License Technical Report Number 112. The primary purpose of Technical Report 112 is to provide a link between Appendix 3G of DCD Revision 16 and the appropriate Technical Reports that contain the associated design change information. Technical Report 112 was originally intended to contain design change information that has been instead incorporated in other reports. However, as TR 112 is listed as a reference in the DCD, it is still being submitted with the purpose described above. The aforementioned design change information is detailed in Technical Report 57, Technical Report 105, and Technical Report 126.

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-GLN-112, Revision 0, "Structural Verification for Enhanced Shield Building," Technical Report Number 112, is submitted as Enclosure 1 under the attached Oath of Affirmation.

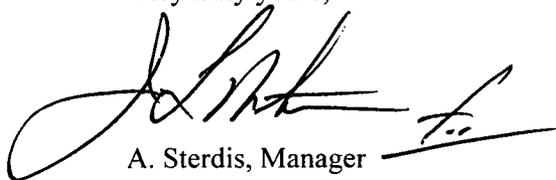
It is expected that when the NRC review of Technical Report Number 112 is complete, Technical Report 112 will be considered approved generically for COL applicants referencing the AP1000 Design Certification.

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.

DO63
DOTA
NRO

Very truly yours,



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

/Attachment

1. "Oath of Affirmation," dated September 27, 2007

/Enclosure

1. APP-GW-GLN-112, Revision 0, "Structural Verification for Enhanced Shield Building," Technical Report Number 112

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
	M. Moran	- Florida Power & Light	1E	1A
	C. Pierce	- Southern Company	1E	1A
	E. Schmiech	- Westinghouse	1E	1A
	G. Zinke	- NuStart/Entergy	1E	1A
	L. Watson	- 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

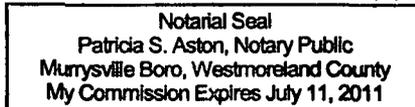
W. E. Cummins, being duly sworn, states that he is Vice President, Regulatory Affairs and Standardization, for Westinghouse Electric Company; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission this document; that all statements made and matters set 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 27th day
of September 2007.

COMMONWEALTH OF PENNSYLVANIA



Member, Pennsylvania Association of Notaries



Notary

ENCLOSURE 1

APP-GW-GLN-112, Revision 0

“Structural Verification for Enhanced Shield Building”

Technical Report 112

AP1000 DOCUMENT COVER SHEET

TDC: _____ Permanent File: _____ APY: _____
 RFS#: _____ RFS ITEM #: _____

AP1000 DOCUMENT NO. APP-GW-GLN-112	REVISION NO. 0	Page 1 of 3	ASSIGNED TO L. Tunon-Sanjur
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ALTERNATE DOCUMENT NUMBER: TR 112

WORK BREAKDOWN #:

ORIGINATING ORGANIZATION: Westinghouse

TITLE: Structural Verification for Enhanced Shield Building

ATTACHMENTS: N/A	DCP #/REV. INCORPORATED IN THIS DOCUMENT REVISION: N/A
CALCULATION/ANALYSIS REFERENCE:	

ELECTRONIC FILENAME	ELECTRONIC FILE FORMAT	ELECTRONIC FILE DESCRIPTION
APP-GW-GLN-112R0.doc	Word	

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LEGAL REVIEW T. J. WHITE	SIGNATURE/DATE <i>T. J. White</i> 9-24-07
PATENT REVIEW D. E. EKEROTH	SIGNATURE/DATE <i>D. E. Ekeroth</i> 9/24/07

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REVIEWERS C. Goossen	SIGNATURE/DATE <i>C. Goossen</i> 9/24/07	
VERIFIER A. Pfister	SIGNATURE/DATE <i>A. Pfister</i> 9/24/07	VERIFICATION METHOD Page by Page
AP1000 RESPONSIBLE MANAGER L. Tunon-Sanjur	SIGNATURE <i>L. Tunon-Sanjur</i>	APPROVAL DATE 9/24/07

* Approval of the responsible manager signifies that document is complete, all required reviews are complete, electronic file is attached and document is released for use.

APP-GW-GLN-112
Revision 0

Westinghouse Non Proprietary Class 3

September 2007

AP1000 Standard Combined License Technical Report

Structural Verification for Enhanced Shield Building Revision 0

Westinghouse Electric Company LLC
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Purpose:

The purpose of this document is to clarify that the enhanced Shield Building design is covered in the following supplemental Technical Reports:

- APP-GW-GLR-045 (TR57), Revision 0, Nuclear Island: Evaluation of Critical Sections.
- APP-GW-GLN-105-NS (TR105), Revision 1, Building and Structure Configuration, Layout, and General Arrangement Design Updates
- APP-GW-GLR-126 (TR126), Revision 0, Nuclear Island Response to Aircraft Impact.

APP-GW-GLR-045 (TR57) contains the configuration of the containment interior structure and auxiliary building 'Critical Sections'. It summarizes the designs of the Nuclear Island 'Critical Sections', applicable to both hard rock and soil sites. The information in this report validates that the shield building design is acceptable.

APP-GW-GLN-105-NS (TR105) outlines the structural changes made to the figures in Revision 16 of the DCD due to modifications to the general arrangement, fire area, radiation area, and room numbering figures.

APP-GW-GLR-126 (TR126) analyzes the different effects of an aircraft crash on the AP1000.

References:

1. APP-GW-GLN-105-NS (TR105), Revision 0, Building and Structure Configuration, Layout, and General Arrangement Design Updates.
2. APP-GW-GLR-045 (TR57), Revision 0, Nuclear Island: Evaluation of Critical Sections.
3. APP-GW-GLR-126 (TR126), Revision 0, Nuclear Island Response to Aircraft Impact.