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Your ref: Project Number 740
Our ref: DCP/NRC1910

May 25, 2007

Subject: AP1000 COL Standard Technical Report Submittal of APP-GW-GLR-127, Revision 0

In support of Combined License application pre-application activities, Westinghouse is submitting Revision 0 of AP1000 Standard Combined License Technical Report Number 127. This technical report is submitted to explain how Figure 2.2.2-1 is changed in Revision 16 of the AP1000 Design Control Document. Changes to the Design Control Document identified in Technical Report Number 127 are intended to be incorporated into FSARs referencing the AP1000 design certification or incorporated into the design control document by an amendment to the design certification. 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 U.S. Nuclear Regulatory Commission.

Pursuant to 10 CFR 50.30(b), APP-GW-GLR-127, Revision 0, "PCS Tier 1 Diagram Correction," Technical Report Number 127, is submitted as Enclosure 1 under the attached Oath of Affirmation.

It is expected that when the NRC review of Technical Report Number 71B is complete, Figure 2.2.2-1 will be considered correct for COL applicants referencing the AP1000 Design Certification.

Questions or requests for additional information related to the 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 this 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 May 25, 2007

/Enclosure

1. APP-GW-GLR-127, Revision 0, "PCS Tier 1 Diagram Correction," Technical Report Number 127, dated May 2007.

cc:	D. Jaffe	- U.S. NRC	1E	1A
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	E. Schmiech	- Westinghouse	1E	1A
	G. Zinke	- NuStart/Entergy	1E	1A
	P. Greco	- 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)

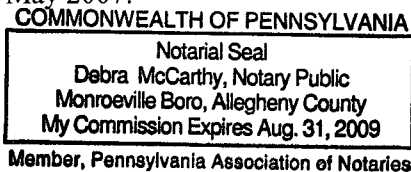
APPLICATION FOR REVIEW OF
"AP1000 GENERAL COMBINED LICENSE INFORMATION"
FOR COL APPLICATION PRE-APPLICATION REVIEW

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 25th day
of May 2007.




Notary Public

ENCLOSURE 1

APP-GW-GLR-127, Revision 0

“PCS Tier 1 Diagram Correction”

Technical Report Number 127

AP1000 DOCUMENT COVER SHEET

TDC:

Permanent File:

APY

RFS#:

RFS ITEM #:

AP1000 DOCUMENT NO. APP-GW-GLR-127	REVISION NO. 0	Page 1 of 10	ASSIGNED TO W-McGINNIS
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ALTERNATE DOCUMENT NUMBER: ~~N/A~~ **TR 127**

WORK BREAKDOWN #:

ORIGINATING ORGANIZATION: **PLG 5/22/07**
Westinghouse

TITLE: **PCS Tier 1 Diagram Correction**

ATTACHMENTS:	DCP #/REV. INCORPORATED IN THIS DOCUMENT REVISION: APP-GW-GEE-098 Rev. 0 APP-GW-GEE-124 Rev. 1
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CALCULATION/ANALYSIS REFERENCE:

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LEGAL REVIEW <i>J.C. VALENTINE</i>	SIGNATURE/DATE <i>J.C. Valentine</i> 5/22/2007
PATENT REVIEW Mike Corletti	SIGNATURE/DATE <i>Mike Corletti</i> 5/22/07

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REVIEWERS	SIGNATURE/DATE
VERIFIER A.F. Pfister	SIGNATURE/DATE <i>A.F. Pfister</i> 5/22/07
AP1000 RESPONSIBLE MANAGER C.A. McGinnis	SIGNATURE/DATE <i>C.A. McGinnis</i> 5-22-07

* 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-GLR-127
Revision 0

January 2007

AP1000 Standard Combined License Technical Report

PCS Tier 1 Diagram Correction

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REVISION HISTORY

Original document: APP-GW-GLR-127 Revision 0

Revision	Location	Change Description
0	EDMS	Original Issue

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1.0 INTRODUCTION

AP1000 Design Control Document (DCD) Tier 1 Section 2.2.2 addresses the Passive Containment Cooling System (PCS). Figure 2.2.2-1 is a simplified representation of the PCS. As currently drawn, this figure does not represent the Tier 2 information found in Section 6.2.2 which also addresses Passive Containment Cooling. This technical report is submitted to explain how the diagram is changed in Revision 16 of the AP1000 DCD.

2.0 TECHNICAL BACKGROUND

The changes discussed in this report were covered in AP1000 document APP-GW-GLN-019 (Reference 3). The Tier 1 impacts of these changes are addressed in this technical report. There are three corrections made to the figure 2.2.2-1. They are as follows:

1. The line leading from the PCCWST to the spent fuel pool (including valve V009) no longer branches off of the standpipe in the tank. This line now has its own connection into the tank (Reference 3).
2. Downstream of the pumps, heater and chemical addition tank the connection to the Fire Protection System has been moved to reflect where it exists in the design. This was a correction that was made to the PCS P&ID to match the current design (Reference 3).
3. Valve V050 is added to the Tier 1 diagram. This valve has always been present in the design. It is now included in the Tier 1 figure to address the following commitment made in the Tier 1 text:

The PCS delivers water from the PCCAWST to the PCCWST and spent fuel pool simultaneously.

3.0 REGULATORY IMPACT

The AP1000 FSER (Reference 2) is not affected by this technical report.

This Technical Report does not affect design features used to mitigate severe accidents.

The subject change will not alter barriers or alarms that control access to protected areas of the plant. The subject change will not alter requirements for security personnel. Therefore, the proposed change does not have an adverse impact on the security assessment of the AP1000.

This correction does not impact the AP1000 Technical Specification.

This correction represents a Tier 1 change and therefore requires NRC approval.

4.0 REVISIONS TO THE DESIGN CONTROL DOCUMENT (DCD)

Tier 1

1. Figure 2.2.2-1

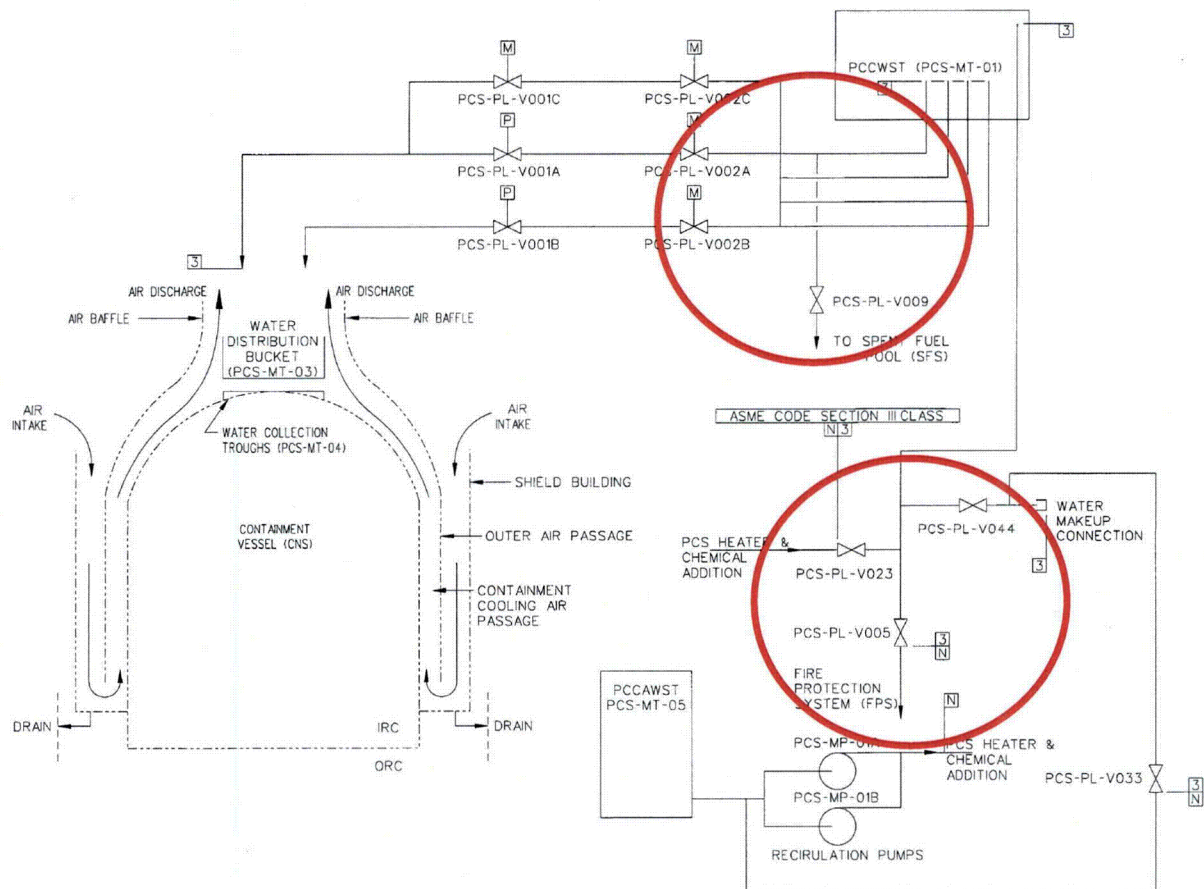


Figure 2.2.2-1
Passive Containment Cooling System

Revision 15 DCD Figure

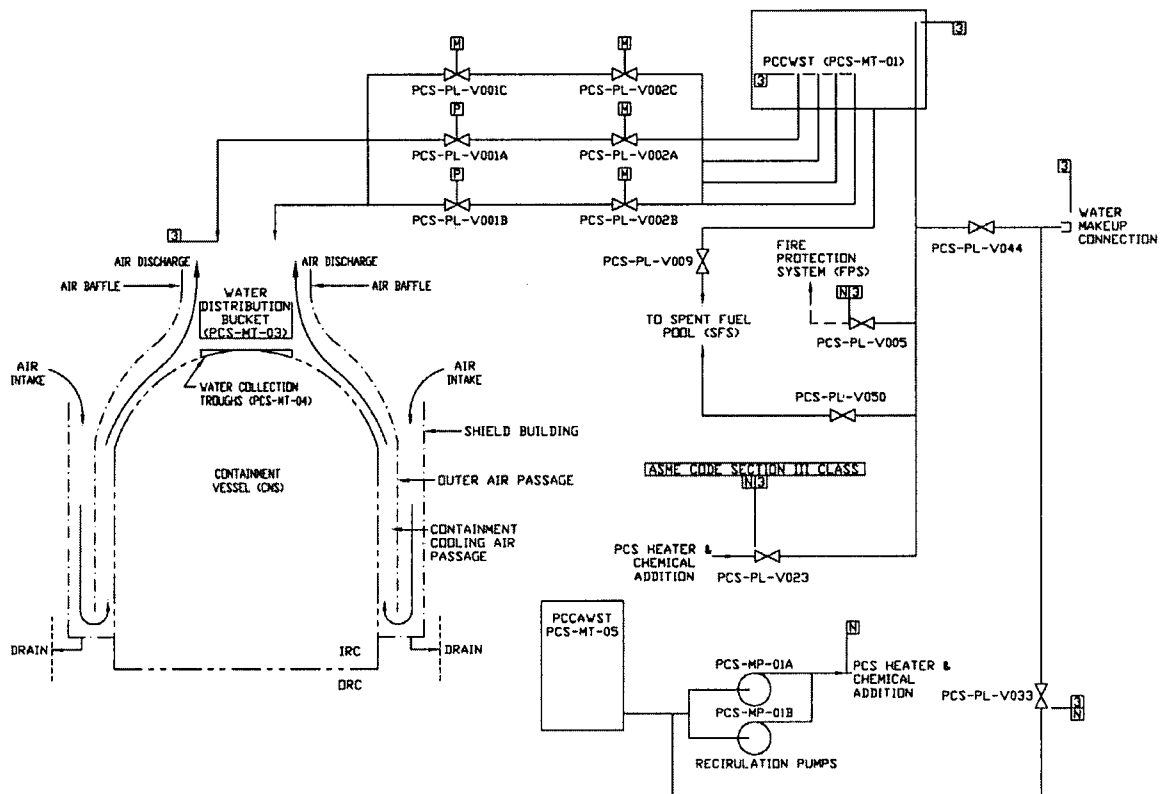


Figure 2.2.2-1
Passive Containment Cooling System

Revision 16 DCD Figure

5.0 REFERENCES

1. APP-GW-GL-700, Revision 15, AP1000 Design Control Document
2. NUREG-1793, September 2004, Final Safety Evaluation Report Related to Certification of the AP1000 Standard Design.
3. APP-GW-GLN-019 Revision 0, Technical Report – Fluid System Changes, May 2007