



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: 412-374-6206
Direct fax: 412-374-5005
e-mail: sisk1rb@westinghouse.com

Your ref: Docket Number 52-006
Our ref: DCP/NRC2137

May 20, 2008


Subject: AP1000 DCD Impact Document Submittal of APP-GW-GLE-009, Revision 0

Westinghouse is submitting Revision 0 of APP-GW-GLE-009, "Alternate Steam and Power Conversion Design." The purpose of this report is to identify changes to the AP1000 Design Control Document (DCD). This DCD Impact document identifies an impact to a Tier 1 Figure in Revision 16 of the DCD.

This report is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information provided in this report is generic and is expected to apply to all Combined Operating License (COL) applicants referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

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.

Very truly yours,


Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Enclosure

1. APP-GW-GLE-009, Revision 0, "Alternate Steam and Power Conversion Design"

cc: P. Buckberg - U.S. NRC 1E
E. McKenna - U.S. NRC 1E
P. Ray - TVA 1E
P. Hastings - Duke Power 1E
R. Kitchen - Progress Energy 1E
A. Monroe - SCANA 1E
J. Wilkinson - Florida Power & Light 1E
C. Pierce - Southern Company 1E
E. Schmiech - Westinghouse 1E
G. Zinke - NuStart/Entergy 1E
R. Grumbir - NuStart 1E
J. Vanderhoff - Westinghouse 1E

ENCLOSURE 1

APP-GW-GLE-009

Revision 0

“Alternate Steam and Power Conversion Design”

AP1000 DOCUMENT COVER SHEET

TDC: _____ Permanent File: _____

AP1000 DOCUMENT NO. APP-GW-GLE-009	REVISION 0	PAGE 1 of 5	ASSIGNED TO W-KEEGAN	OPEN ITEMS (Y/N) N
---------------------------------------	---------------	----------------	-------------------------	-----------------------

ALTERNATE DOCUMENT NUMBER: N/A

WORK BREAKDOWN #:

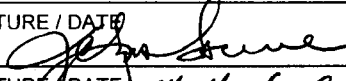
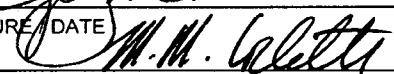
ORIGINATING ORGANIZATION: AP1000

TITLE: Alternate Steam and Power Conversion Design

ATTACHMENTS: N/A	DCP #/REV. INCORPORATED IN THIS DOCUMENT REVISION: APP-GW-GEE-216 Rev 0
CALCULATION/ANALYSIS REFERENCE: N/A	

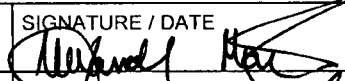
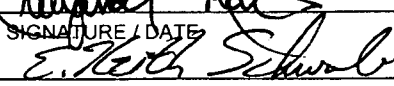
ELECTRONIC FILENAME APP-GW-GLE-009 Rev 0	ELECTRONIC FILE FORMAT Microsoft Word	ELECTRONIC FILE DESCRIPTION
---	--	-----------------------------

© 2008 WESTINGHOUSE ELECTRIC COMPANY LLC – WESTINGHOUSE NON-PROPRIETARY CLASS 3
Class 3 Documents being transmitted to the NRC require the following two review signatures in lieu of a Form 36.


LEGAL REVIEW J. C. Spadacene	SIGNATURE / DATE  5/15/08
PATENT REVIEW M. M. Corletti	SIGNATURE / DATE  5/15/08



© 2008 WESTINGHOUSE ELECTRIC COMPANY LLC – WESTINGHOUSE PROPRIETARY CLASS 2
This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subcontractors and suppliers. It is transmitted to you in confidence and trust, and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was provided to you.

© 2008 WESTINGHOUSE ELECTRIC COMPANY LLC and/or STONE & WEBSTER, INC.
WESTINGHOUSE PROPRIETARY CLASS 2 and/or STONE & WEBSTER CONFIDENTIAL AND PROPRIETARY
This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or is the property of and contains Confidential and Proprietary Information owned by Stone & Webster, Inc. and/or their affiliates, subcontractors and suppliers. It is transmitted to you in confidence and trust, and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was provided to you.

ORIGINATOR(S) A. D. Martinez	SIGNATURE / DATE  5/15/2008
REVIEWER(S) E. K. Schwab	SIGNATURE / DATE  5/15/2008
	SIGNATURE / DATE
	SIGNATURE / DATE

VERIFIER(S) J. F. Vanderhoff	SIGNATURE / DATE  05/15/08	Verification Method: Independent Review
---------------------------------	---	---

**Plant Applicability: All AP1000 plants except: HYG, HY1, HY2, SMG, SM1, SM2, ~~SM3~~, CPP, 5PP  5/15/08
 Only the following plants:

APPLICABILITY REVIEWER** J. A. Speer	SIGNATURE / DATE  5/15/08
RESPONSIBLE MANAGER* C. P. Keegan	SIGNATURE / DATE  5.15.08

* Approval of the responsible manager signifies that the document and all required reviews are complete, the appropriate proprietary class has been assigned, electronic file has been provided to the EMS, and the document is released for use.

*** Electronically approved records are authenticated in the electronic document management system.

WESTINGHOUSE ELECTRIC COMPANY
AP1000 DCD Impact Document

Page 2 of 5

Document Number: APP-GW-GLE-009

Revision Number: 0

Title: Alternate Steam and Power Conversion Design

Brief Description of the Impact (what is being changed and why):

This DCD Impact document identifies an impact to a Tier 1 Figure in the Rev 16 DCD. A mark-up of the affected figure is included on page 5 of this document.

SRP Section Impacted:

SRP Section 10.2

This evaluation is prepared to document the Design Control Document (DCD) change described above. The DCD change is a departure from Tier 1 information of the AP1000 DCD, Revision 16. The change identified in this document is intended to be included in a revision to the DCD and in the review of the Design Certification amendment or included as generic information in plant specific FSARs. Changes to Tier 1 information require review and approval by the NRC.

I. TECHNICAL DESCRIPTION

This DCD impact document does not require any changes to the design itself. It identifies an impacted figure that should have been included in previous changes to the DCD. The figure was Tier 1, Figure 2.2.4-1 that should have been changed in TR 86.

II. CHANGE JUSTIFICATION

In Tier 1 Figure 2.2.4-1 (Sheet 3 of 3) two valve symbols marked with a "P" representing pneumatic actuators should have been corrected with the letter "M" indicating motor operated valves to be consistent with the change to Tier 2 Figure 10.3.2-2. Since this change was not identified in TR 86, it is being identified now in this DCD Impact document.

III. REGULATORY IMPACT

A. EVALUATION OF DEPARTURE FROM TIER 2 INFORMATION (Check correct response and provide justification for that determination under each response)

10 CFR Part 52, Appendix D, Section VIII. B.5.a. provides that an applicant for a combined licensee who references the AP1000 design certification may depart from Tier 2 information, without prior NRC approval, if it does not require a license amendment under paragraph B.5.b. These questions are addressed here to provide an evaluation of the regulatory impact. Regardless of the answers to these questions these changes are being provided to the NRC for review and approval as part of the design certification amendment. Also changes to Tier 1 require NRC review and approval. The questions below address the criteria of B.5.b.

1. Does the proposed departure result in more than a minimal increase in the frequency of occurrence of an accident previously evaluated in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---	---

WESTINGHOUSE ELECTRIC COMPANY
AP1000 DCD Impact Document

Document Number: APP-GW-GLE-009

Revision Number: 0

Title: Alternate Steam and Power Conversion Design

2. Does the proposed departure result in more than a minimal increase in the likelihood of occurrence of a malfunction of a structure, system, or component (SSC) important to safety and previously evaluated in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. Does the proposed departure Result in more than a minimal increase in the consequences of an accident previously evaluated in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. Does the proposed departure result in more than a minimal increase in the consequences of a malfunction of an SSC important to safety previously evaluated in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. Does the proposed departure create a possibility for an accident of a different type than any evaluated previously in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6. Does the proposed departure create a possibility for a malfunction of an SSC important to safety with a different result than any evaluated previously in the plant-specific DCD?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7. Does the proposed departure result in a design basis limit for a fission product barrier as described in the plant-specific DCD being exceeded or altered?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8. Does the proposed departure result in a departure from a method of evaluation described in the plant-specific DCD used in establishing the design bases or in the safety analyses?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

B. IMPACT ON RESOLUTION OF A SEVERE ACCIDENT ISSUE

10 CFR Part 52, Appendix D, Section VIII. B.5.a. provides that an applicant for a combined licensee who references the AP1000 design certification may depart from Tier 2 information, without prior NRC approval, if it does not require a license amendment under paragraph B.5.c. The questions below address the criteria of B.5.c.

WESTINGHOUSE ELECTRIC COMPANY
AP1000 DCD Impact Document

Document Number: APP-GW-GLE-009

Revision Number: 0

Title: Alternate Steam and Power Conversion Design

1. Does the proposed activity result in an impact to features that mitigate severe accidents. If the answer is Yes answer Questions 2 and 3 below.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---

2. Is there is a substantial increase in the probability of a severe accident such that a particular severe accident previously reviewed and determined to be not credible could become credible?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
---	---

3. Is there is a substantial increase in the consequences to the public of a particular severe accident previously reviewed?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
--	---

C. SECURITY ASSESSMENT

1. Does the proposed change have an adverse impact on the security assessment of the AP1000.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---

D. OTHER REGULATORY CRITERIA

None

IV. DCD MARK-UP

Changes are shown with deletions shown with strikeout and additions underlined. Additions and changes shown previously in other submittals are shown in italics.

Document Number: APP-GW-GLE-009

Revision Number: 0

Title: Alternate Steam and Power Conversion Design

2. System Based Design Descriptions and TFAAC AP1000 Design Control Document

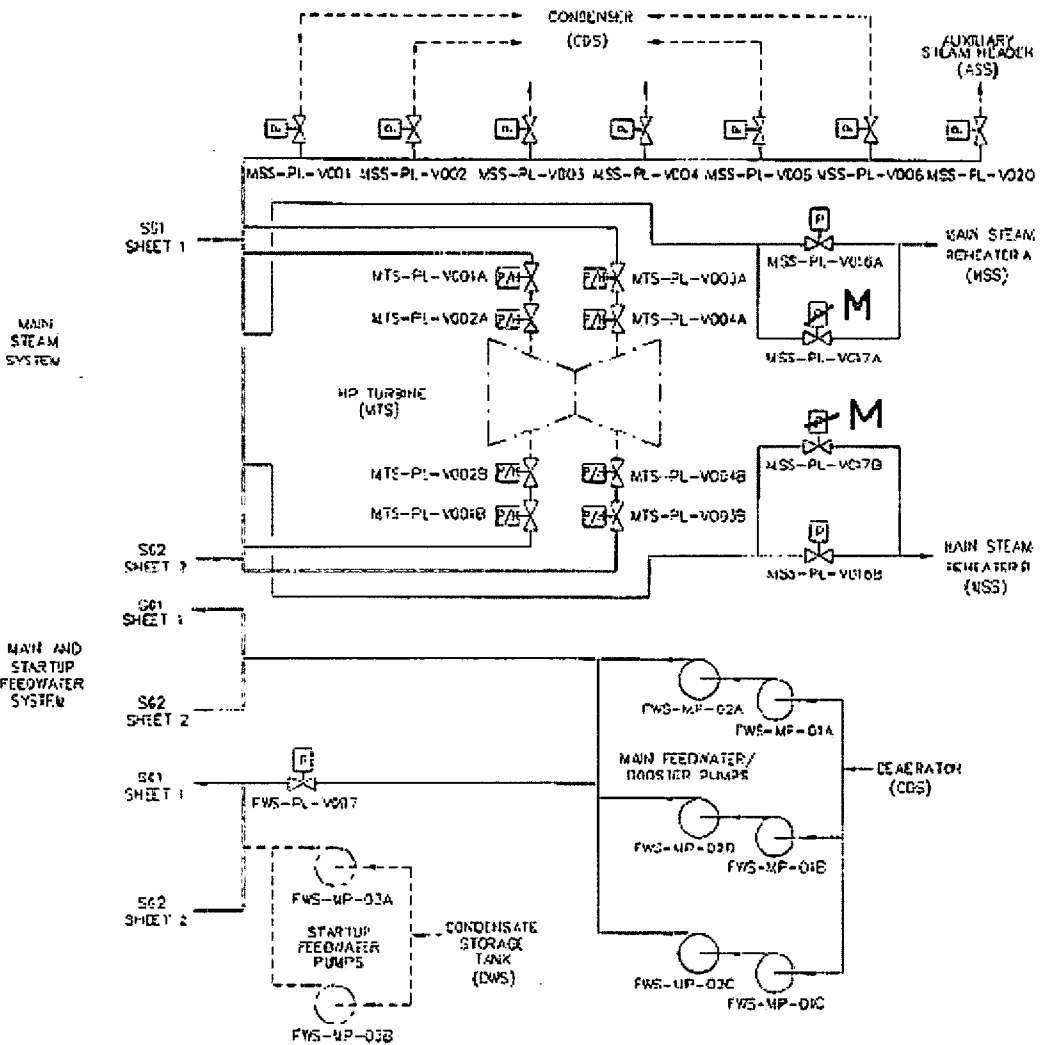


Figure 2.2.4-1 (Sheet 3 of 3)
 Steam Generator System

Tier 1 Material

2.2.4.25

Revision 16