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Your ref: Project Number 740 Our ref: DCP/NRC1995

September 13, 2007

AP1000 COL Standard Technical Report Submittal of APP-GW-GLN-131 (TR 131), Subject:

Revision 1

In support of Combined License application pre-application activities, Westinghouse is submitting Revision 1 of AP1000 Standard Combined License Technical Report Number 131. This report identifies and justifies standard changes to the AP1000 Design Control Document (DCD). The changes to the DCD identified in Technical Report 131 are included in the proposed amendment to the AP1000 Design Certification Rule (DCD Revision 16). The purpose of this revision is to provide additional justification and clarification in response to questions raised during a teleconference between Andrea Sterdis of Westinghouse and Chris Jackson of the NRC on August 3, 2007. 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-131, Revision 1, "Miscellaneous AP1000 Design Changes," (Technical Report Number 131), is submitted as Enclosure 1 under the attached Oath of Affirmation. Revision 0 of Technical Report 131 was submitted under Westinghouse letter DCP/NRC1964, dated July 18, 2007.

It is expected that when the NRC review of Technical Report Number 131, Revision 1 is complete, the changes to the DCD identified in Technical Report 131 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 for additional information 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 September 13, 2007

/Enclosure

1. APP-GW-GLN-131, Revision 1, "Miscellaneous AP1000 Design Changes," Technical Report Number 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	1 E	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
	P. Greco	-	Westinghouse	1E	1 A

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 13th day of September 2007.

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Patricia S. Aston, Notary Public Murrysville Boro, Westmoreland County My Commission Expires July 11, 2011

Member, Pennsylvania Association of Notaries

ENCLOSURE 1

APP-GW-GLN-131, Revision 1

"Miscellaneous AP1000 Design Changes"

Technical Report 131

AP1000 DOCUMENT COVER SHEET

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^{*} 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-131 Revision 1

September 2007

Westinghouse Class 3 Non Proprietary

AP1000 Standard Combined License Technical Report

Title: Miscellaneous AP1000 Design Changes

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and why):	
e described abov	00 that are incorporated into Revision 1 e is a departure from Tier 2 be included in plant specific
	
□ NO ⊠ YES	(If YES prepare a report for NRC review of the changes)
⊠ NO □ YES	(If YES prepare a report for NRC review of the changes)
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⊠ no □ yes	(If YES prepare a COL item closure report for NRC review.)
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II. TECHNICAL DESCRIPTION AND JUSTIFICATION

A few miscellaneous design changes were made to the AP1000. This technical report will add these differences to the AP1000 DCD to make it consistent with the current design.

Change 1: WGS Simplified Sketch Corrections

The current version of the Gaseous Radwaste System (WGS) simplified sketch shown in the DCD does not accurately depict the current status of the WGS design. The sketch will be updated to reflect the current AP1000 WGS design by correcting the valve type for the discharge valve and the moisture separator drain valve.

Change 2: Removal of the Pressurizer Vapor Sample Line from the RCS

Conversations with utilities have confirmed that this sampling line is rarely if ever used. It was not on the normal sampling schedule and has been removed.

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.

Change 4: Addition of New Containment Electrical Penetration Test Valve to Table 3.2-3

This change was made by the report APP-GW-GLN-022 (TR 097), however the change to Tier 2 table 3.2-3 was not included in APP-GW-GLN-022 (TR 097). This report corrects this inconsistency.

Change 5: Change in Tier 2 Section 6.5.2.1.1 to correctly describe procedure

This change is made to correct a typo in the procedure that describes the operation of the non-safety related containment spray system. Procedure currently states the following "Containment spray is initiated by first closing the passive containment cooling water system fire header isolation valve (PCS-V005) isolating the primary fire water tank, ..." the isolated tank is actually the Passive Containment Cooling Water Storage Tank as shown in the markup.

Change 6: Addition of sprinklers that exist in the diesel driven fire pump enclosure

The current design has sprinklers in the diesel driven fire pump package. The figure included in this TR shows these sprinklers.

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Change 7: Correction to Sheet 3 of Figure 9.5.1-1

The current figure is incorrect in the following ways:

- Valve V102 is incorrectly labeled, it should be valve V700
- Flag coming from "FPS TANK" is changed to show its correct origin

The AP1000 Design Control Document Revision 16 has a revision roadmap (as do the other revisions) that tracks changes from one revision to the next. The roadmap displays the section number of the change, the page that has changed and the document (Technical Report) that made the change. Upon investigation of the DCD Revision 16 roadmap there are nine instances in which this report is specifically listed as the reason for a change. However, this report only lists seven changes in section II. Two of the changes in the roadmap should not reference this technical report for their explanation. The two changes have been listed below along with the technical reports that contain their respective explanations. For the correct explanations please see the following technical reports:

- 1) Pages 3.2-35 to 38 see APP-GW-GLN-123 (TR 123)
- 2) Pages 3.2-69 see APP-GW-GLN-019 (TR 103)

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Title:

Miscellaneous AP1000 Design Changes

III. DCD MARK-UP

Tier 1

1. Figure 2.3.11-1

Tier 2

- 1. Table 3.2-3 (Sheet 24 of 65)
- 2. Table 3.2-3 (Sheet 56 of 65)
- 3. Table 3.2-3 (Sheet 61 of 65)
- 4. Section 6.5.2.1.1
- 5. Figure 9.5.1-1 (Sheet 1 of 3)
- 6. Figure 9.5.1-1 (Sheet 3 of 3)

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Change 1: WGS Simplified Sketch Corrections

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Title: Miscellaneous AP1000 Design Changes

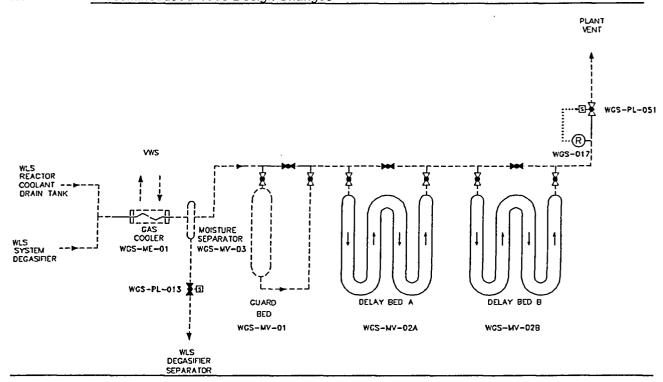


Figure 2.3.11-1 Gaseous Radwaste System

Revision 15 Figure

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Title:

Miscellaneous AP1000 Design Changes

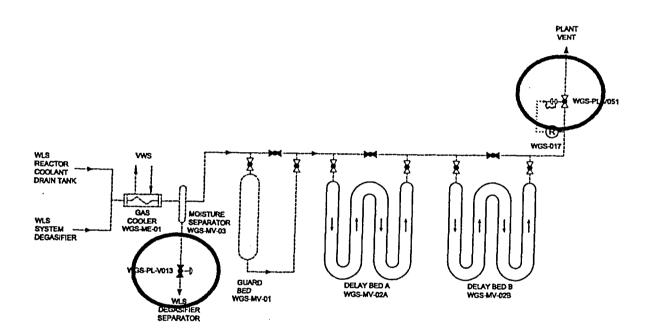


Figure 2.3.11-1 Gaseous Radwaste System

Revision 16 Figure

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Change 2: Removal of the Pressurizer Vapor Sample Line from the RCS

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TABLE 3.2-3 (SHEET 24 OF 65)

AP1000 CLASSIFICATION OF MECHANICAL AND FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT

Tag Number	Description	AP1000 Class	Seismic Category	Principal Con- struction Code	Comments
Reactor Coolant	System (Continued)				
RCS-PL-V203	Pressurizer-Steam-Space Sample Isolation	B	1	ASME III-2	
RCS-PL-V204	Pressurizer Manual Vent	Α	I	ASME III-1	
RCS-PL-V205	Pressurizer Manual Vent	Α	I	ASME III-1	
RCS-PL-V210A	Pressurizer Spray Bypass	В	I	ASME III-2	
RCS-PL-V210B	Pressurizer Spray Bypass	В	I	ASME III-2	
RCS-PL-V225A	Pressurizer Level Steam Space Instrument Root	В	I	ASME III-2	
RCS-PL-V225B	Pressurizer Level Steam Space Instrument Root	В	I	ASME III-2	·
RCS-PL-V225C	Pressurizer Level Steam Space Instrument Root	В	I	ASME III-2	
RCS-PL-V225D	Pressurizer Level Steam Space Instrument Root	В	I	ASME III-2	
RCS-PL-V226A	Pressurizer Level Liquid Space Instrument Root	В	I	ASME III-2	
RCS-PL-V226B	Pressurizer Level Liquid Space Instrument Root	В	I	ASME III-2	
RCS-PL-V226C	Pressurizer Level Liquid Space Instrument Root	В	I	ASME III-2	
RCS-PL-V226D	Pressurizer Level Liquid Space Instrument Root	В	I	ASME III-2	
RCS-PL-V228	Wide Range Pressurizer Level Steam Space Instrument Root	В	I	ASME III-2	
RCS-PL-V229	Wide Range Pressurizer Level Liquid Space Instrument Root	В	I	ASME III-2	
RCS-PL-V232	Manual Head Vent	С	I	ASME III-3	
RCS-PL-V233	Head Vent Isolation	С	Ī	ASME III-3	
RCS-PL-V241	ADS Valve Discharge Header Drain Isolation	С	I	ASME III-3	
CS-PL-V242	ADS Valve Discharge Header Drain Check	D	NS	ANSI 16.34	

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Change 3: Move VES Refill line from VES to CAS

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TABLE 3.2-3 (SHEET 56 OF 65)

AP1000 CLASSIFICATION OF MECHANICAL AND FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT

ļ	FLOD SISIEMS, CO	7	1	1	
Tag Number	Description	AP1000 Class	Seismic Category	Principal Con- struction Code	Comments
Main Control Ro	oom Emergency Habitability Sy	stem (Conti	nued)		
VES-PL-V002A	Pressure Regulating Valve A	С	I	ASME III-3	
VES-PL-V002B	Pressure Regulating Valve B	С	I	ASME III-3	
VES-PL-V005A	Air Delivery Main Isolation Valve A	С	I	ASME III-3	
VES-PL-V005B	Air Delivery Main Isolation Valve B	С	I	ASME III-3	
VES-PL-V006A	Air Delivery Line Pressure Instrument Isolation Valve A	С	I	ASME III-3	
VES-PL-V006B	Air Delivery Line Pressure Instrument Isolation Valve B	С	I	ASME III-3	
VES-PL-V008A	Refill CheckValve A	e	1	ASME-III-3	
VES-PL-V008B	Refill CheckValve-B	€	Ŧ	ASME-III-3	
VES-PL-V016	Temporary Instrument Isolation Valve A	С	I	ASME III-3	
VES-PL-V018	Temporary Instrument Isolation Valve A	С	I	ASME III-3	
VES-PL-V019	Temporary Instrument Isolation Valve B	С	I	ASME III-3	
VES-PL-V020	Temporary Instrument Isolation Valve B	С	I	ASME III-3	
VES-PL-V022A	Pressure Relief Isolation Valve A	С	I	ASME III-3	
VES-PL-V022B	Pressure Relief Isolation Valve B	С	I	ASME III-3	
VES-PL-V024A	Air Tank Isolation Valve A	С	I	ASME III-3	
VES-PL-V024B	Air Tank Isolation Valve B	С	Ī	ASME III-3	
VES-PL-V025A	Air Tank Isolation Valve A	С	I	ASME III-3	
VES-PL-V025B	Air Tank Isolation Valve B	С	I	ASME III-3	
VES-PL-V038	Makeup Air Stop Valve	С	I	ASME III-3	
VES-PL-V040A	Air Tank Safety Relief Valve A	С	I	ASME III-3	
VES-PL-V040B	Air Tank Safety Relief Valve B	С	I	ASME III-3	

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Change 4: Addition of New Containment Electrical Penetration Test

Valve to Table 3.2-3

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TABLE 3.2-3 (SHEET 61 OF 65) AP1000 CLASSIFICATION OF MECHANICAL AND FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT AP1000 Seismic Principal Con-Tag Number Description Class Category struction Code Comments Containment Leak Rate Test System (Continued) **Electrical Penetration Test** VUS-PL-V116 В ASME III-2 Isolation Valve VUS-PL-V117 **Electrical Penetration Test** В ASME III-2 Isolation Valve VUS-PL-V118 **Electrical Penetration Test** В ASME III-2 Isolation Valve VUS-PL-V119 **Electrical Penetration Test** В **ASME III-2** Isolation Valve **Electrical Penetration Test** VUS-PL-V120 В ASME III-2 Isolation Valve VUS-PL-V121 **Electrical Penetration Test** В ASME III-2 Isolation Valve VUS-PL-V122 **Electrical Penetration Test** В I ASME III-2 Isolation Valve VUS-PL-V123 **Electrical Penetration Test** В I ASME III-2 Isolation Valve VUS-PL-V124 **Electrical Penetration Test** В I **ASME III-2** Isolation Valve VUS-PL-V125 **Electrical Penetration Test** В I **ASME III-2** Isolation Valve VUS-PL-V140 **Spare Penetration Test** В Ĩ ASME III-2 Connection VUS-PL-V141 **Spare Penetration Test** В ASME III-2 Connection VUS-PL-V142 **Spare Penetration Test** В **ASME III-2** Connection Balance of system components are Class E Central Chilled Water System (VWS) Location: Various Air Cooled Chiller NS Manufacturer Std. n/a D **Pumps** D NS Manufacturer Std. n/a D n/a Tanks NS **ASME VIII** Valves Providing VWS D ANSI 16.34 n/a NS AP1000 Equipment Class D

Function

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Change 5: Change in Tier 2 Section 6.5.2.1.1 to correctly describe procedure

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6.5.2.1.1 Valves

The containment spray flow path from the fire main header contains one normally open manual valve (FPS-V048), one normally closed manual valve (FPS-V101), one lock closed manual containment isolation valve outside containment (FPS-V050), a containment isolation check valve inside containment (FPS-V052), a normally open manual isolation valve in the spray riser (FPS-V700), and a normally closed remotely-operated valve (FPS-V701) downstream of the manual isolation valve in the spray riser.

Containment spray is initiated by first closing the passive containment cooling water system fire header isolation valve (PCS-V005) isolating the passive containment cooling primary-fire-water storage tank, opening the manual valves outside containment, and by opening the remotely-operated valve inside containment. The manual valves outside containment are located in valve / piping penetration room 12306. The valves are located close to the entrance door such that radiation exposures to an individual required to enter the room and align the valves would not exceed the prescribed post-accident dose limits discussed in subsection 12.4.1.8.

Valve FPS-V701 is a fail-open air-operated valve such that the containment spray flow path can be opened following a loss of the nonsafety-related compressed air system. During shutdown operations, the fire protection system header inside containment is pressurized from the passive containment cooling water storage tank for fire protection and manual isolation valve FPS-V700 is closed.

6.5.2.1.2 Containment Spray Header and Nozzles

The containment spray header consists of a single header that feeds two ring headers located above the containment polar crane. The containment spray ring headers and spray nozzles are oriented to maximize containment volume coverage. A lower ring header is located at plant elevation 260 feet, and contains 44 spray nozzles. An upper ring header is located at plant elevation 275 feet, and contains 24 spray nozzles. The nozzles within the spray ring header are conventional containment spray nozzles utilized in past Westinghouse pressurized water reactors. The spray nozzles are selected on the basis of drop size to provide adequate absorption of fission products from the containment atmosphere.

6.5.2.1.3 Applicable Codes and Classifications

The containment spray function is not safety-related, and therefore the valves and piping in the containment spray flow path are not required to be safety-related for the containment spray function. However, the containment isolation piping and valves are safety-related (AP1000 Equipment Class B) to perform the safety-related function of containment isolation. The classification of the remaining portions of the fire header are nonsafety-related, and are classified as Class F as discussed in subsections 3.2.2.7 and 9.5.1. The containment spray header and valve, downstream of the manual isolation valve inside containment is nonsafety-related and classified as Class E. The containment spray header is classified as Seismic category II.

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Change 6: Addition of sprinklers that exist in the diesel driven fire pump enclosure

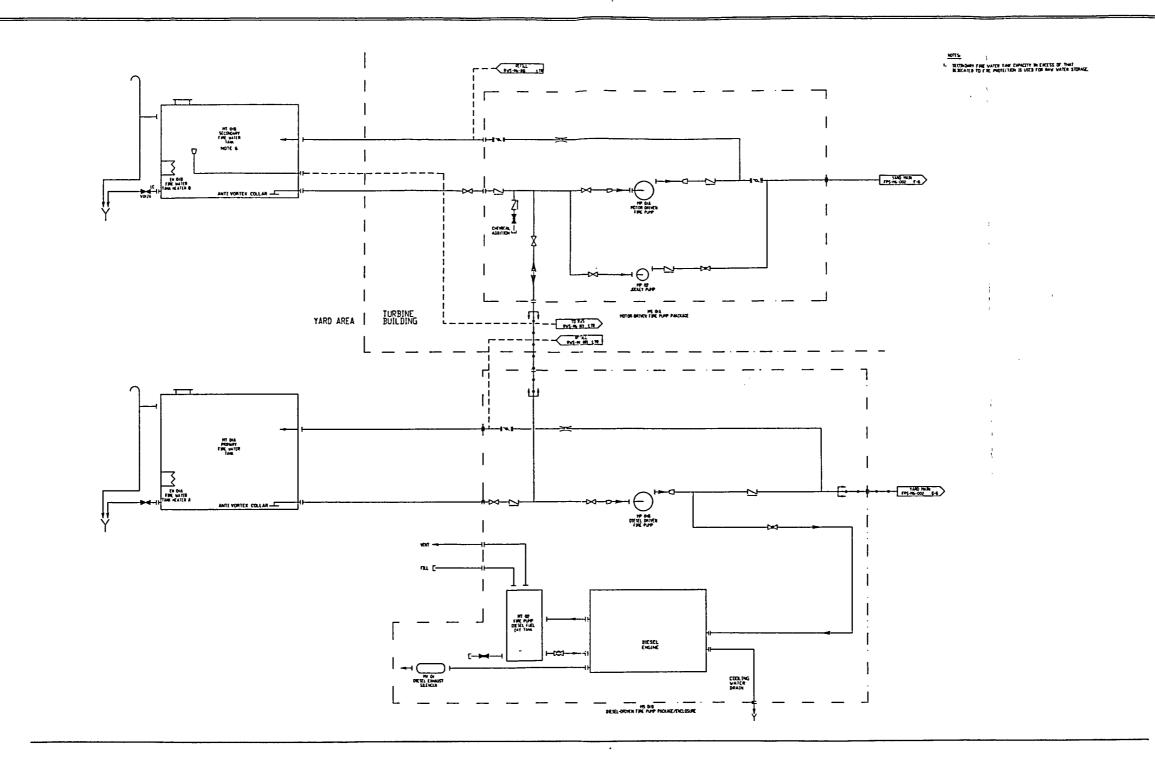


Figure 9.5.1-1 (Sheet 1 of 3)

Fire Protection System
Piping and Instrumentation Diagram
(REF FPS 001)

Revision 15 Figure

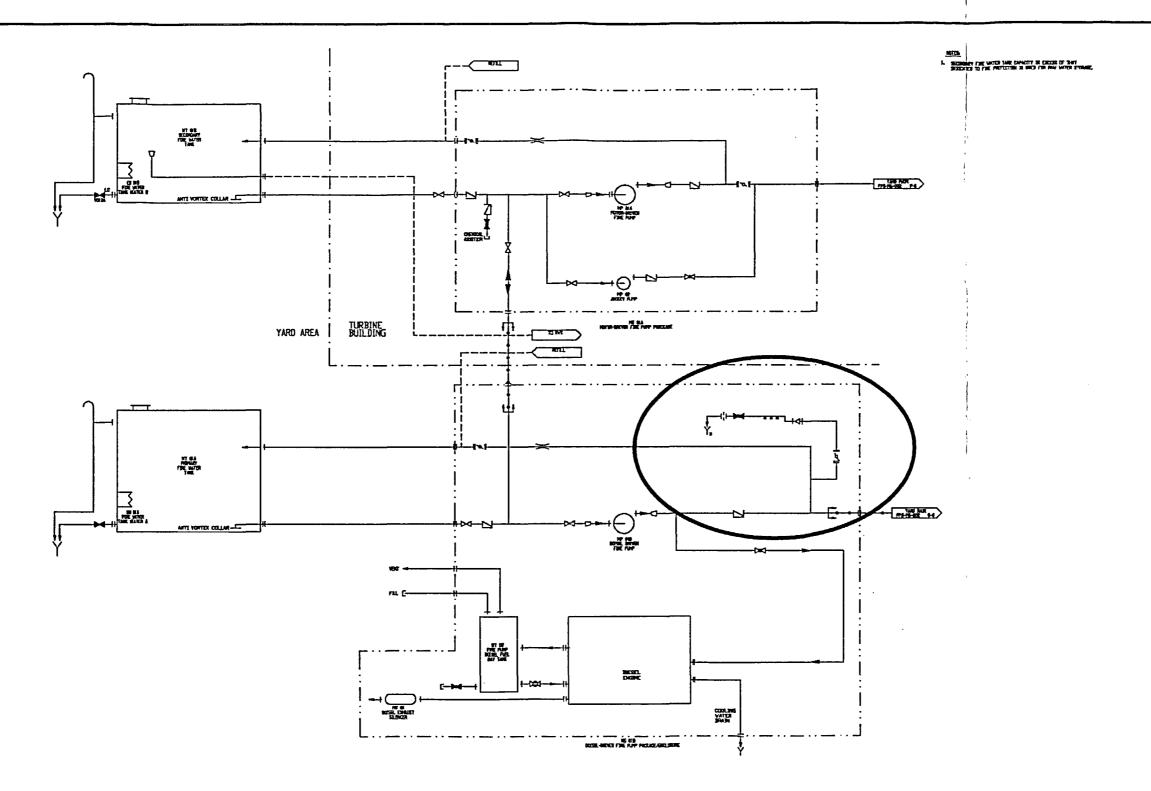


Figure 9.5.1-1 (Sheet 1 of 3)

Fire Protection System
Piping and Instrumentation Diagram
(REF FPS 001)

Revision 16 Figure

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Change 7: Correction to Sheet 3 of Figure 9.5.1-1

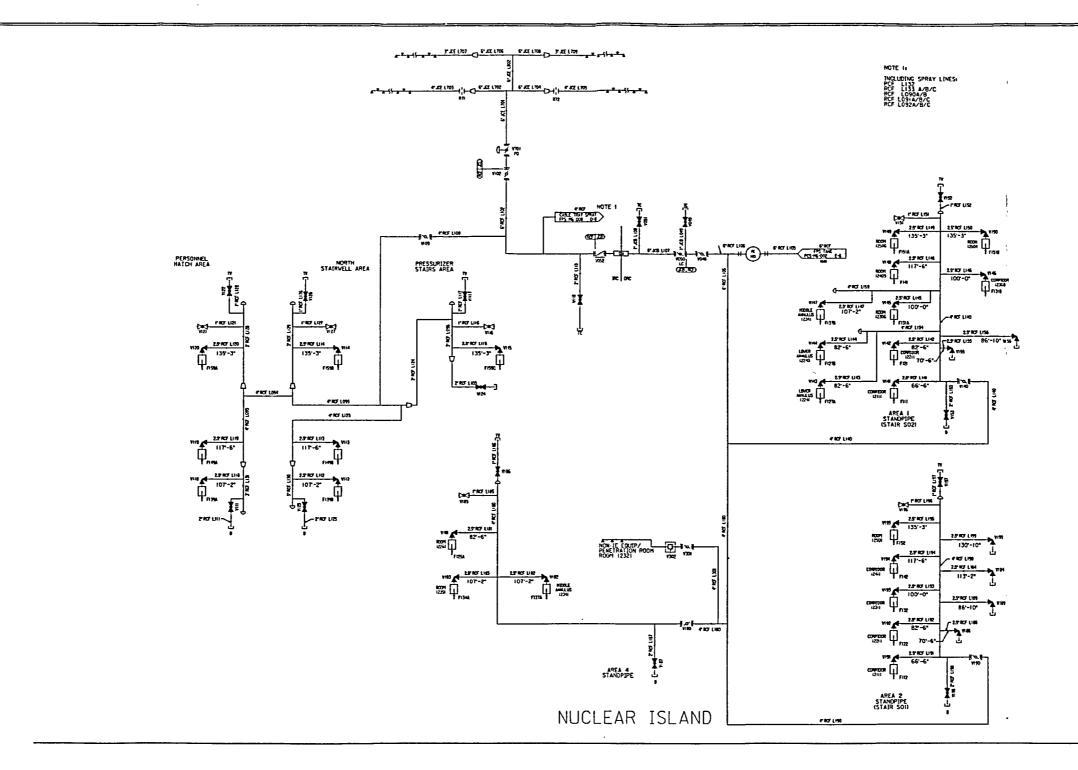


Figure 9.5.1-1 (Sheet 3 of 3)

Fire Protection System
Piping and Instrumentation Diagram
(REF FPS 004)

Revision 15 Figure

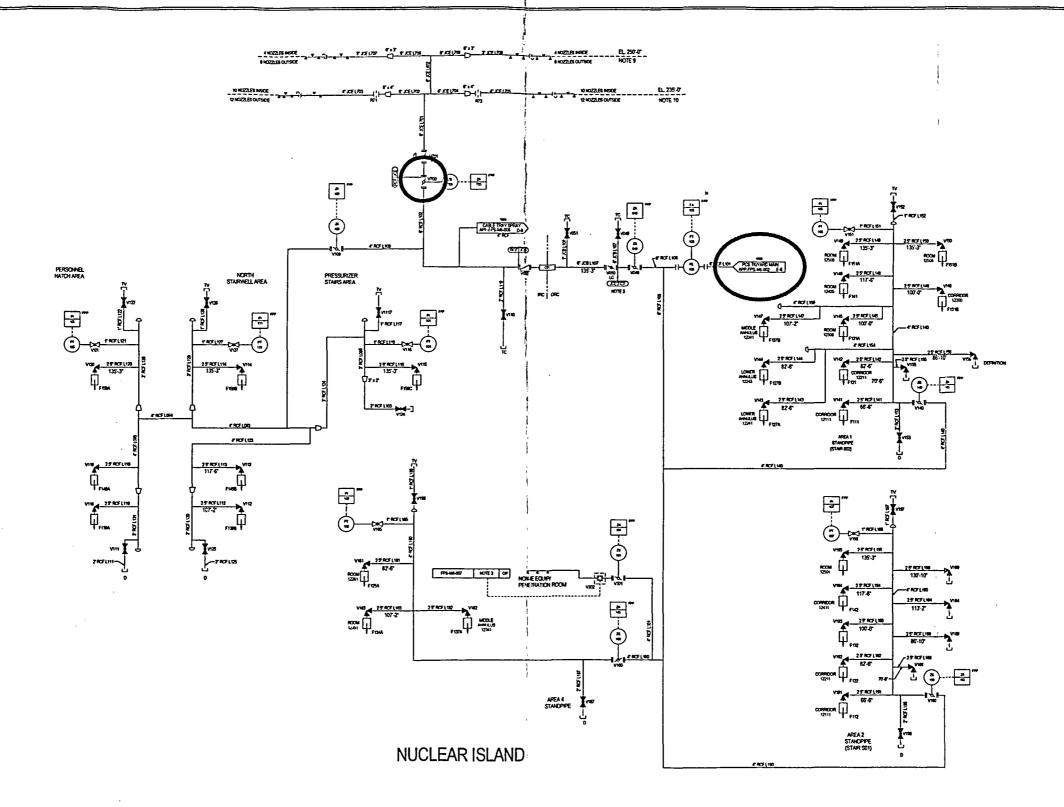


Figure 9.5.1-1 (Sheet 3 of 3)

Fire Protection System
Piping and Instrumentation Diagram
(REF FPS 004)

Revision 16 Figure

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A	A. FSER IMPACT		
7	These changes have no i	mpact on the text or conclusions of the AP1000	FSER.
E	 SCREENING QUES under each response 	STIONS (Check correct response and provide ju	stification for that determination
1	. Does the proposed cl described design fund	hange involve a change to an SSC that adversely ction?	affects a DCD YES NO
	The proposed change design function.	es do not involve a change to an SSC that advers	ely affects a DCD described
2.		nange involve a change to a procedure that adver SSC design functions are performed or controlle	· · · · ·
		es do not involve a change to a procedure that ad a functions are performed or controlled.	versely affects how DCD
3.	• •	ctivity involve revising or replacing a DCD described in establishing the design bases or used in the	
	<u> </u>	s do not involve revising or replacing a DCD de shing the design bases or used in the safety analy	- -
4.	where an SSC is utiliz	tivity involve a test or experiment not described zed or controlled in a manner that is outside the for that SSC or is inconsistent with analyses or o	reference
	The proposed changes	s do not involve a test or experiment not describ	ed in the DCD.
C.		DEPARTURE FROM TIER 2 INFORMATION etermination under each response)	(Check correct response and provide
	references the AP1000	endix D, Section VIII. B.5.a. provides that an apple design certification may depart from Tier 2 into trequire a license amendment under paragraph I	formation, without prior NRC
		parture result in more than a minimal increase in lent previously evaluated in the plant-specific D	* *
	The changes described	will not increase the frequency of occurrence of	of an accident because there is no

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	significant increase in the probability of failure of the safety functions	due to the changes.	
2.	Does the proposed departure result in more than a minimal increase in occurrence of a malfunction of a structure, system, or component (SSC safety and previously evaluated in the plant-specific DCD?		□ yes 🗵 no
	There are no changes which will cause an increase in the probability of SSC important to the safety and previously evaluated in the plant speci		nalfunction of any
3.	Does the proposed departure Result in more than a minimal increase in of an accident previously evaluated in the plant-specific DCD?	the consequences	☐ YES ⊠ NO
	The changes have no effect on the operation, performance, and pressure vessel. Therefore, there is no increase in the calculated release of radio accident conditions.		
4.	Does the proposed departure result in more than a minimal increase in a malfunction of an SSC important to safety previously evaluated in the DCD?		☐ YES 🏻 NO
	The changes have no effect on the design functions or reliability of an State calculated release of radioactive material due to a malfunction of an		is no increase in
5.	Does the proposed departure create a possibility for an accident of a diffany evaluated previously in the plant-specific DCD?	ferent type than	☐ YES ⊠ NO
	The changes have no effect on the operation, performance and pressure vessel. The changes do not introduce any additional failure modes. The an accident of a type different than what has already been evaluated in the changes have no effect on the operation, performance and pressure vessel.	refore, these changes	
6.	Does the proposed departure create a possibility for a malfunction of an safety with a different result than any evaluated previously in the plant-		☐ YES ⊠ NO
	The changes have no effect on the design functions of an SSC. Therefore modes or the possibility for a malfunction of an SSC important to safety previously.		
7.	Does the proposed departure result in a design basis limit for a fission p described in the plant-specific DCD being exceeded or altered?	roduct barrier as	☐ YES ⊠ NO
	There is no change to the design function of an SSC. Therefore, the pro- in a design basis limit for a fission product barrier as described in the pl		
	Does the proposed departure result in a departure from a method of eval the plant-specific DCD used in establishing the design bases or in the sa		☐ YES ⊠ NO

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		The methods of evaluation for the SSCs described in the departure.	plant-specific DCD are not altered	by the proposed
Ø	⅓	The answers to the evaluation questions above are "NO require prior NRC review to be included in plant specific D, Section VIII. B.5.b		
]	One or more of the answers to the evaluation questions NRC review.	above are "YES" and the proposed (change requires
D.	.]	IMPACT ON RESOLUTION OF A SEVERE ACCIDEN	IT ISSUE	
	i	10 CFR Part 52, Appendix D, Section VIII. B.5.a. provid references the AP1000 design certification may depart fro approval, if it does not require a license amendment under the criteria of B.5.c.	om Tier 2 information, without prio	r NRC
1.		Does the proposed activity result in an impact to features the answer is Yes answer Questions 2 and 3 below.	that mitigate severe accidents. If	☐ YES ☒ NO
2.	p	Is there is a substantial increase in the probability of particular severe accident previously reviewed and detection become credible?		☐ YES ☐ NO ☑ N/A
3.		Is there is a substantial increase in the consequences to th accident previously reviewed?	e public of a particular severe	☐ YES ☐ NO ☑ N/A
\boxtimes	1	The answers to the evaluation questions above are "NO" from Tier 2 does not require prior NRC review to be incl. Part 52, Appendix D, Section VIII. B.5.c		
		One or more of the he answers to the evaluation question requires NRC review.	s above are "YES" and the propose	d change
E.	S	SECURITY ASSESSMENT		
1.		Does the proposed change have an adverse impact on the AP1000.	security assessment of the	☐ YES ⊠ NO
		The design changes will not alter barriers or alarms that co of the plant. The changes will not alter requirements for so	-	

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Westinghouse performed a regulatory assessment of the information contained in this technical report (TR) against the regulatory basis for the original AP1000 certified design, which is described in DCD Revision 15, Sections 3.1, 1.9 and Appendix 1A. The results of the regulatory assessment appear below. Unless specifically noted, the changes described in the TR are not intended to change the regulatory basis for the design, but are instead meant to be incremental changes that are necessary to properly describe standard aspects of the AP1000 and to allow successful construction of the plant. The regulatory requirements of DCD Revision 15, Sections 3.1, 1.9 and Appendix 1A, therefore remain valid.

- Regulatory requirements and guidance are defined in AP1000 DCD Section 1.9 and Appendix 1A.
 This technical report does not affect the conformance to these requirements and guidance where applicable.
- Nuclear Regulatory Commission General Design Criteria (GDC) are defined in AP1000 DCD section
 3.1. This technical report does not affect the conformance of the AP1000 to the GDCs, where applicable.
- The technical report was reviewed against WCAP-15799 Rev. 1 (SRP Conformance) and WCAP-15800 Rev. 3 (AP1000 Operational Assessment). This technical report does not affect the AP1000 conformance as described in these WCAPs. This includes the commitments to any applicable Branch Technical Positions.
- The report was reviewed against the AP1000 Probabilistic Risk Assessment (PRA). This technical report does not negatively impact the AP1000 PRA results as documented in Westinghouse document APP-PRA-GER-001.
- This technical report was reviewed against the AP1000 DCD Chapter 15 Accident Analyses. It has been concluded that the safety analyses results documented in DCD Chapter 15 remain bounding.
- This technical report was reviewed against the AP1000 Technical Specifications (AP1000 DCD Chapter 16.1). This technical report does not affect the AP1000 Technical Specifications.
- This technical report was reviewed against barriers and alarms that control access to protected areas of the plant, as well as requirements for security personnel. This technical report does not have an adverse impact on the security assessment of the AP1000.
- This technical report was reviewed against design features that mitigate severe accidents. This technical report does not have an adverse affect on the AP1000's ability to mitigate severe accidents.
- This technical report was reviewed against AP1000 DCD Tier 1 Sections 2.1.2, 2.2.1, 2.3.4, 2.3.11, 2.3.15 and Tier 2 Sections 3.2, 3.11, 5, 6.2, 6.4, 6.5, 9.5, and 11.3 which are the applicable sections to the changes in this report. This technical report aligns these sections so the commitments made in these sections can be fulfilled.
- This technical report was reviewed against the Tier 1 information of the DCD Rev.15. It is determined that this report does reflect a change to the Tier 1 information, specifically figure 2.3.11-1, and therefore requires NRC approval.