

AP1000 DOCUMENT COVER SHEET

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

AP1000 DOCUMENT NO. APP-GW-GLN-105-NS	REVISION NO. 1	Page 1 of 258	ASSIGNED TO W-Lee
--	-------------------	---------------	----------------------

ALTERNATE DOCUMENT NUMBER: TR105 WORK BREAKDOWN #:
 ORIGINATING ORGANIZATION: Westinghouse
 TITLE: **Building and Structure Configuration, Layout, and General Arrangement Design Updates**

ATTACHMENTS: N/A	DCP #/REV. INCORPORATED IN THIS DOCUMENT REVISION: APP-GW-GEE-: 40/3, 69/1, 103/0, 112/0, 121/1, 130/0, 158/0, 159/0, 160/0, 162/0, 167/0, 168/0, 170/0, 174/0, 175/0, 190/0, 201/0, 207/0, 216/0, 228/0, 232/0, 233/0, 238/0, 244/1, 246/1, 248/1, 269/0
CALCULATION/ANALYSIS REFERENCE: N/A	

ELECTRONIC FILENAME	ELECTRONIC FILE FORMAT	ELECTRONIC FILE DESCRIPTION
APP-GW-GLN-105.doc	Microsoft Word	

(C) WESTINGHOUSE ELECTRIC COMPANY LLC – 2007

WESTINGHOUSE CLASS 3 (NON PROPRIETARY)

Class 3 Documents being transmitted to the NRC require the following two review signatures in lieu of a Form 36.

LEGAL REVIEW	SIGNATURE/DATE
PATENT REVIEW M. M. Corletti	SIGNATURE/DATE

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.

ORIGINATOR N. Costanzo	SIGNATURE/DATE	
REVIEWERS	SIGNATURE/DATE	
VERIFIER J. Willis	SIGNATURE/DATE	VERIFICATION METHOD
AP1000 RESPONSIBLE MANAGER L. Tunon-Sanjur	SIGNATURE*	APPROVAL DATE

* 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.

AP1000 Standard Combined License Technical Report

Building and Structure Configuration, Layout, and General Arrangement

Design Updates

Westinghouse Electric Company LLC
P.O. Box 355
Pittsburgh, PA 15230-0355

© 2007 Westinghouse Electric Company LLC
All Rights Reserved

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Table of Contents

- I. **Applicability Determination, pg. 5**
- II. **Technical Description and Justification, pg. 5**
- III. **DCD Mark-Up, pg. 18**
- IV. **Regulatory Impact, pg. 249**
- V. **References, pg. 253**

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

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

The purpose of this document is to identify the location and description of the changes to the general arrangement and related drawings made in Revision 16 of the AP1000 Design Control Document (DCD). Building configuration, layout, and general arrangement drawings have been updated for the AP1000 Nuclear Island and adjacent buildings. These changes are outlined below.

I. APPLICABILITY DETERMINATION

This evaluation is prepared to document that the changes described in Section II above is a departure from Tier 2 information of the AP1000 Design Control Document (DCD) that may be included in plant specific FSARs without prior NRC approval.

A.	Does the proposed change include a change to:		
	1. Tier 1 of the AP1000 Design Control Document APP-GW-GL-700	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	(If YES prepare a report for NRC review of the changes)
	2. Tier 2 of the AP1000 Design Control Document, APP-GW-GL-700	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	(If YES prepare a report for NRC review of the changes)
	3. Technical Specification in Chapter 16 of the AP1000 Design Control Document, APP-GW-GL-700	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	(If YES prepare a report for NRC review of the changes)
B.	Does the proposed change involve:		
	1. Closure of a Combined License Information Item identified in the AP1000 Design Control Document, APP-GW-GL-700	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	(If YES prepare a COL item closure report for NRC review.)
	2. Completion of an ITAAC item identified in Tier 1 of the AP1000 Design Control Document, APP-GW-GL-700	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	(If YES prepare an ITAAC completion report for NRC review.)

The questions above are answered no, therefore the departure from the DCD in a COL application does not require prior NRC review unless review is required by the criteria of 10 CFR Part 52 Appendix D Section VIII B.5.b. or B.5c

II. TECHNICAL DESCRIPTION AND JUSTIFICATION

1.0 Introduction

A number of structural changes have resulted in revisions to the general arrangement, fire area, radiation area, and room numbering figures. Each of these structural changes is outlined below, to provide a description of the changes made to the figures in Revision 16 of the DCD. Applicable Tier 1 figure changes are located in section 3.3. Tier 2 figure changes are located in sections 1.2, 3.7, 3.8, 6.2, 9A, and 12.3.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

2.0 DCP 040: AP1000 Pressurizer Changes

This DCP describes a new pressurizer drawing and changes to the height of the pressurizer within the shield building. The changes made to the pressurizer, along with any relating structural changes to the AP1000, are detailed in TR 36 and TR 37.

These changes are seen in Figures III-1, III-2, III-3, III-4, III-29, III-30, III-37, III-38, III-39, III-40, III-41, III-42, III-43, III-44, III-77, III-78, III-81, III-82, III-83, III-84, III-109, III-110, III-111, III-112, III-113, III-114, III-115, III-116, III-117, III-118, III-131, III-132, III-133, and III-134.

3.0 DCP 069: IHP Dose Reduction-Change in Material of ICI Sheath

This DCP describes a change to the radiation level in the indicated room and adds a note to the drawing. The radiation zone label is changed to Designation V and note #2 is changed to explain why the radiation level could be greater than 100mrem/hr.

These changes are seen in Figures III-165 and III-166.

4.0 DCP 103: Access Control Modifications to the Auxiliary and Annex Buildings

The following subsections detail structural changes made relating to the access control of the AP1000 auxiliary and annex buildings.

These changes are seen in Figures III-7, III-8, III-9, III-10, III-17, III-18, III-19, III-20, III-25, III-26, III-27, III-28, III-29, III-30, III-31, III-32, III-45, III-46, III-47, III-48, III-49, III-50, III-71, III-72, III-73, III-74, III-75, III-76, III-85, III-86, III-89, III-90, III-91, III-92, III-93, III-94, III-99, III-100, III-101, III-102, III-103, III-104, III-105, III-106, III-121, III-122, III-123, III-124, III-125, III-126, III-135, III-136, III-149, III-150, III-151, III-152, III-153, III-154, III-161, III-162, III-163, III-164, III-165, III-166, III-171, III-172, III-173, III-174, III-175, III-176, III-185, III-186, III-187, III-188, III-189, III-190, III-195, III-196, III-197, III-198, III-199, III-200, III-207, III-208, III-209, III-210, III-211, III-212, III-217, III-218, III-219, III-220, III-221, and III-222.

4.1 Annex Building Area 1

The following structural changes are applied:

- The entry point into the access area of the annex building is relocated.
- A cart pass-thru corridor is added.
- The three security rooms are rearranged.
- The turbine building access door at elevation 100'-0" is deleted.
- The rest room is reduced in size.
- The walls around the individual turnstiles are deleted, and the turnstiles are repositioned.

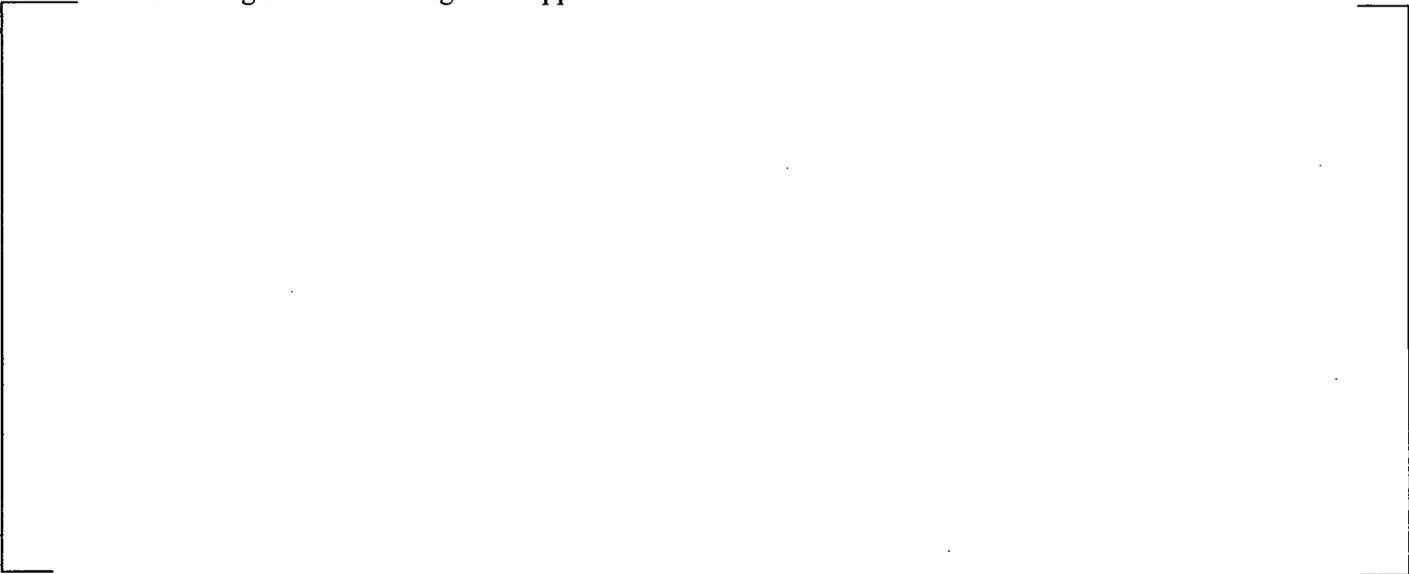
Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- The south wall of Room 40306 is changed to a reinforced concrete wall.

4.2 Annex Building Area 2

The following structural changes are applied:



4.3 Annex Building Area 3

The following structural changes are applied:

- A new corridor is added along the west end of the hot machine shop (room number 40358) at elevation 100'-0". This corridor is formed through the addition of a reinforced concrete wall. This corridor is designated room number 40362. An open stair run allows for access between the 100'-0" and 107'-2" elevations. A lift platform runs adjacent to this stair run.
 - A floor slab is added at elevation 121'-0" directly above the corridor room 40362. This creates a second level corridor designated room number 40415. A concrete enclosure is added on the north side of room 40415 which extends into area 2 of the annex building. Existing walls within the annex and auxiliary building provide the south and west walls for this enclosure.
 - The floor area of the hot machine shop (room number 40358) is reduced by the inclusion of the corridor (room number 40362).

4.4 Auxiliary Building Area 4

The following structural changes are applied:

- A new door is added in the northeast corner of room number 12351 to allow for access between the auxiliary building and the annex building room number 40326. The existing door in the south corner of room number 12351 is removed. The direction of the door to the personnel hatch is changed.

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- Room 12451 is extended southward, now bound by the existing reinforced concrete wall to the south of the room. A new door is added to the southwest corner of room 12451, connecting to room 40415 of the annex building. A platform is added at elevation 121'-0" to access room 40415.
- Rooms 12551 and 12552 are deleted.



SRI

5.0 DCP 112: Spent Fuel Pool Layout Capacity

The capacities of the spent fuel storage racks and new fuel storage racks located at elevation 117'-6" are increased. The spent fuel storage rack capacity increases from 616 to 889. The new fuel storage rack capacity increases from 64 to 72.

These changes are described in TR 54, TR 65, and TR 74C. The changes are shown in Figures III-29 and III-30.

6.0 DCP 121: DAS Platform Technology, Remote Indication, Alternate Squib Valve Capability

Two cabinets are added to Room 12451. This change provides plant parameters indication and actuation capability for squib valves during situations in which the clean portion of the auxiliary building is not available. This change is described in TR 39 and TR 97, and is seen in Figures III-29 and III-30.

7.0 DCP 130: AP1000 Integrated Head Package Configuration

The Integrated Head Package Configuration is changed from the AP600 design to the AP1000 design. These changes are detailed in TR 61.

These changes are seen in Figures III-29, III-30, III-43, and III-44.

8.0 DCP 158: Expanded Office Area in AP1000 Annex Building

The following subsections detail structural changes made relating to the expanded office area of the AP1000 annex building.

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

These changes are seen in Figures III-17, III-18, III-19, III-20, III-21, III-22, III-45, III-46, III-47, III-48, III-49, III-50, III-55, III-56, III-139, III-140, III-149, III-150, III-151, III-152, III-153, III-154, III-171, III-172, III-173, III-174, III-175, III-176, III-179, III-180, III-195, III-196, III-197, III-198, III-199, III-200, III-203, III-204, III-217, III-218, III-219, III-220, III-221, III-222, III-225, III-226, III-232, and III-233.

8.1 Annex Building Area 4

The following structural changes are applied:

- An expanded office area is added to area 4 of the annex building. The new area expands northward from the original northern wall of the structure, and is bound by the north wall of area 1 of the annex building and the east wall of the turbine building. Rooms 40371, 40372, 40375, 40377, 40370, and 40376 are added as a result of this expansion. A two-hour fire barrier wall is added along the west wall of the expanded area.
- A new wall running along the north/south axis is used to divide the existing room 40313 evenly, forming room 40314.
- The separation between corridors 40311 and 40319 is deleted, and the entire resulting corridor is designated as 40311. The wall and opening located along the pre-existing north wall of corridor 40311 is deleted.

8.2 Turbine Building

The following changes are made to the turbine building as a result of the annex building expansion:

- At elevation 100'-0", the opening located at the south corner of the east wall of the turbine building heater bay is deleted.
- The panels for heater removal located along the east wall of the turbine building heater bay at elevation 135'-3" is moved north to accommodate the location of the expanded office area of the annex building.

9.0 DCP 159: AP1000 Turbine Building Variable Frequency Drive Relocation and Related Changes

The following structural changes are applied relating to the turbine building:



SRI

- The south bay is increased in width along the north-south dimension.
- Support columns are added along the southern wall of the turbine building.
- The south wall of the east bay of the turbine building is moved south to increase the width of the bay. A support column is moved south as well.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- A new floor level is added to the south bay at elevation 147'-6".
- A stair is added to the east side of the south bay between elevations 100'-0" and 117'-6"
- An access door is added to the northeast corner of the south bay at elevation 100'-0".
- A stair is added to the west side of the south bay between elevations 135'-3" and 147'-6".
- New rooms are added to the northeast corner of the turbine building at elevation 149'-0", including rooms 20505, 20507, and 20508.
- The floor at elevation 187'-0" is raised to 187'-3".

These changes are described in TR 111, and seen in Figures III-55, III-56, III-57, III-58, III-59, III-60, III-61, III-62, III-63, III-64, III-65, III-66, III-69, III-70, III-139, III-140, III-141, III-142, III-143, III-144, III-145, III-146, III-147, III-148, III-179, III-180, III-181, III-182, III-203, III-204, III-225, III-226, III-227, and III-228.

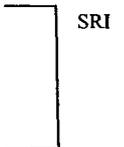
10.0 DCP 160: Specialty & Water Tight Doors (Auxiliary, Annex and Turbine Buildings)

A number of doors are added to the auxiliary, annex and turbine buildings. The locations of these doors can be seen in the figures in section III.

These changes are seen in Figures III-7, III-8, III-9, III-10, III-11, III-12, III-25, III-26, III-27, III-28, III-29, III-30, III-31, III-32, III-45, III-46, III-47, III-48, III-49, III-50, III-55, III-56, III-57, III-58, III-59, III-60, III-71, III-72, III-91, III-92, III-121, III-122, III-123, III-124, III-125, III-126, III-139, III-140, III-141, III-142, III-143, III-144, III-149, III-150, III-151, III-152, III-153, III-154, III-161, III-162, III-163, III-164, III-165, III-166, III-171, III-172, III-173, III-174, III-175, III-176, III-179, III-180, III-181, III-182, III-185, III-186, III-187, III-188, III-189, III-190, III-195, III-196, III-197, III-198, III-199, III-200, III-203, III-204, III-207, III-208, III-209, III-210, III-211, III-212, III-217, III-218, III-219, III-220, III-221, III-222, III-225, III-226, III-227, and III-228.

11.0 DCP 162: Turbine Building Observation Posts and Personnel Enclosures

- A thicker wall is erected about the southwest outer stairwell enclosure. The door now swings in the opposite direction.
 - An enclosure is built surrounding the northwest interior stairwell at elevation 161'-0". A door is placed upon the eastern wall of this enclosure. Room 20601's western wall is moved east to form a separate room.
 - An opening is made in the elevator shaft located at elevations 161'-0" and 187'-3".
 - Room 20601 is increased in height to 196'-0".



Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

These changes are seen in Figures III-55, III-56, III-57, III-58, III-59, III-60, III-61, III-62, III-63, III-64, III-65, III-66, III-67, III-68, III-69, III-70, III-139, III-140, III-141, III-142, III-45, III-146, III-147, III-148, III-179, III-180, III-181, III-182, III-203, III-204, III-225, III-226, III-227, and III-228.

DCP 167: Radwaste Building Extension

The following structural changes are applied relating to the radwaste building expansion:

- A truck bay extension is added between the current radwaste building and annex building. The extension room number is 50354 and the room name is Truck Staging Area. It is adjacent to and in series with the truck bay in the auxiliary building. A door opening is placed within the east wall of the truck bay extension.
- The roof of the truck bay extension is a continuation of the current radwaste building roof and interfaces with the east wall of the auxiliary building and with the south wall of the annex building.
- The controlled access door in room 12371 of the auxiliary building is removed.
- A new door opening is added to the pre-existing northeast corner of the radwaste building to allow for access to the truck bay extension.
- A parapet wall is added to the perimeter of the radwaste building roof. Three observation positions are added, located on the southeast, southwest, and northwest corners of the radwaste building.

These changes are seen in Figure III-7, III-8, III-25, III-26, III-53, III-54, III-71, III-72, III-121, III-122, III-155, III-156, III-161, III-162, III-177, III-178, III-185, III-186, III-201, III-202, III-207, III-208, III-223, III-224, III-232, and III-233.

12.0 DCP 168: AP1000 Annex Building Area 2 East Stairwell/Elevator Enclosure Observations Positions and Roof Parapet

The following structural changes are applied relating to area 2 of the AP1000 annex building:



SRI

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates



SRI

These changes are seen in Figure III-17, III-18, III-19, III-20, III-21, III-22, III-45, III-46, III-47, III-48, III-49, III-50, III-97, III-98, III-149, III-150, III-151, III-152, III-153, III-154, III-171, III-172, III-173, III-174, III-175, III-176, III-195, III-196, III-197, III-198, III-199, III-200, III-217, III-218, III-219, III-220, III-221, and III-222.

13.0 DCP 170: Polar Crane Design

This DCP describes changes made to the nuclear island polar crane. The new crane is seen in the Nuclear Island General Arrangement Section B-B figure with equipment shown. These changes are described in TR 106.

This change corresponds to Figures III-39, III-40, III-43, III-44, III-117, and III-118.

14.0 DCP 174: AP1000 Diesel Generator Building

The following structural changes are applied relating to the diesel generator building:

- An external stairwell enclosure is proposed, providing roof access. The stairwell is located to the east side of the diesel generator building with the entrance to the stairwell facing to the east.



SRI

These changes are seen in Figures III-51, III-52, III-157, III-158, III-232, and III-233.

15.0 DCP 175: Dry Storage Cask Transportation Related Modifications (Auxiliary Building)

The current door located at the southeast corner of the auxiliary building, along the east wall, is replaced by two doors, an outer hinged swinging door and an inner roll up door. The overall doorway area is increased in size.

This change is seen in Figures III-7, III-8, III-25, III-26, III-121, III-122, III-161, III-162, III-185, III-186, III-207, and III-208.

16.0 DCP 190: Main Control Room Layout

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

The Main Control Room layout detail has been removed from the appropriate figures. TR-82 contains further information regarding MCR design. This change is seen in Figures III-29 and III-30.

17.0 DCP 201: Fast Bus Transfer

The transformer area is modified in this DCP, resulting in a change to the site plan drawing and the arrangement of surrounding structures. This change is described in TR 79, and is seen in Figures III-232 and III-233.

18.0 DCP 207: AP1000 PXS Containment Recirculation and IRWST Screen Configurations

This DCP describes changes made to the configuration of the IRWST screens. These changes, along with any relating structural changes inside of containment, are detailed in TR 26.

These changes are seen in Figures III-5, III-6, III-23, III-24, III-27, III-28, III-29, III-30, III-119, III-120, III-123, III-124, III-159, III-160, III-163, III-164, III-183, III-184, III-187, III-188, III-205, III-206, III-209, and III-210.

19.0 DCP 216: Toshiba Turbine-Generator and Steam Cycle Design

The previous turbine arrangement has been changed to reflect the use of Toshiba technology in the AP1000 plant. These changes are described in TR 86, and seen in Figures III-63, and III-64.

20.0 DCP 228: Outside Air Inlet Structure

A small room is added to the north end of room 12601. The nearby air intake structure is relocated to this room. These changes are mentioned in TR 122 and seen in Figures III-13, III-14, III-15, III-16, III-33, III-34, III-35, III-36, III-77, III-78, III-79, III-80, III-85, III-86, III-87, III-88, III-111, III-112, III-127, III-128, III-129, III-130, III-135, III-136, III-167, III-168, III-169, III-170, III-191, III-192, III-193, III-194, III-213, III-214, III-215, and III-216.

21.0 DCP 232: Radwaste Building Extension/WLS Monitor Tank Addition

The following structural changes are applied relating to the addition of WLS monitor tanks to the radwaste building:

- A new room is added to the west of rooms 50352, the packaged waste storage room, and 50351, the waste accumulation room. This room is designated 50355, the monitor tanks room. The addition of this room increases the size of the radwaste building. Rooms 50300, the electrical/mechanical equipment room, and 50353, the HVAC equipment room, are moved westward to accommodate the addition of room 50355. A new concrete wall separates rooms 50300 and 50353 from room 50355/

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- The southeast door of room 50351 is changed from its current configuration into a sliding shield door.

These changes are described in TR 116, and seen in Figures III-53, III-54, III-155, III-156, III-177, III-178, III-201, III-202, III-223, III-224, III-232, and III-233.

22.0 DCP 233: MCR Layout – Rooms Outside of Main Control Room

This DCP describes changes made to the arrangement and designation of several rooms surrounding the main control room. These changes are detailed in TR 82.

These changes are seen in Figures III-9, III-10, III-27, III-28, III-29, III-30, III-117, III-118, III-163, III-164, III-209, III-210, III-187, and III-188.

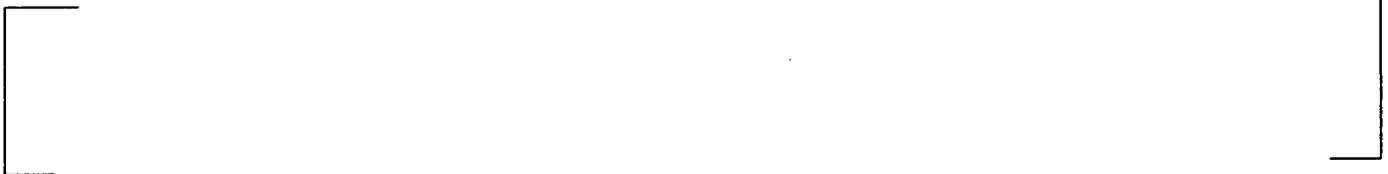
23.0 DCP 238: Control Support Area in Annex Building

Room 40403 of the annex building has been renamed from the Technical Support Center (TSC) to the Control Support Area (CSA). Pre-existing references to the TSC are replaced with the CSA in all applicable drawings.

These changes are described in TR 107, and are seen in Figures III-19, III-20, III-47, III-48, III-137, III-138, III-151, III-152, III-173, III-174, III-197, III-198, III-219, and III-220.

24.0 DCP 244: Addition of Cyber Security Level 3 Computer Room

This DCP builds upon changes previously described in Section 6.0.



SRI

These changes are described in TR 104, and are seen in Figures III-45, III-46, III-149, III-150, III-171, III-172, III-195, III-196, III-217, and III-218.

25.0 DCP 246: Containment Air Cooling Diffuser Grating Platforms

Two steel grating platforms are installed within the Shield Building roof opening. This change is seen in Figures III-1, III-2, III-3, III-4, III-15, III-16, III-35, III-36, III-37, III-38, III-39, III-40, III-41, III-42, III-43, III-44, III-81, III-82, III-83, III-84, III-117, III-118, III-129, III-130, III-131, III-132, III-133, III-134, III-169, III-170, III-193, III-194, III-215, and III-216.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

26.0 DCP 248: AP1000 Shield Building Structure Design Enhancement

This DCP describes the lowering of the overall height of the AP1000 Shield building. In addition, the thickness of the walls along the conical roof of the shield building is increased. New steel beam detail is added to the revised figure 3.8.4-2 in Tier 2 of the DCD.

These changes are described in TR 57, and are seen in Figures III-1, III-2, III-3, III-4, III-15, III-16, III-35, III-36, III-37, III-38, III-39, III-40, III-41, III-42, III-43, III-44, III-79, III-80, III-81, III-82, III-83, III-84, III-107, III-108, III-117, III-118, III-129, III-130, III-131, III-132, III-133, III-134, III-169, III-170, III-193, III-194, III-215, and III-216. The changes are also discussed in Section 32.0 of this document.

27.0 DCP 269: Shield Building Roof Air Inlet Openings and Associated Platforms

Detail of area between beams is added to Shield Building section drawings. These changes have not been shown to cause a significant negative safety impact upon the passive containment cooling system.

These changes are seen in Figures III-1, III-2, III-3, III-4, III-15, III-16, III-35, III-36, III-37, III-38, III-39, III-40, III-41, III-42, III-43, III-44, III-81, III-82, III-83, III-84, III-117, III-118, III-129, III-130, III-131, III-132, III-133, III-134, III-169, III-170, III-193, III-194, III-215, and III-216. The changes are also discussed in Section 32.0 of this document.

28.0 TR 49: AP1000 Enhancement Report

This technical report modifies the site plan of the AP1000 and adds information to the “Notes” section. These changes are seen in Figures III-232 and III-233

29.0 General Turbine Building Layout

The turbine building drawings reflect the initial configuration of the AP1000 Turbine Building. Any differences between Revision 15 and Revision 16 Turbine Building figures, with the exception of the changes detailed in previous sections, reflect differences between AP600 and AP1000. These are not considered to be revisions to a pre-existing AP1000 Turbine Building.

30.0 Additional Site Plan Information

Item #23 and #25 have been added or modified in the AP1000 site plan. The layout in the current figure reflects the initial layout for the AP1000 site plan. These items are not considered to be revisions to a pre-existing AP1000 site plan.

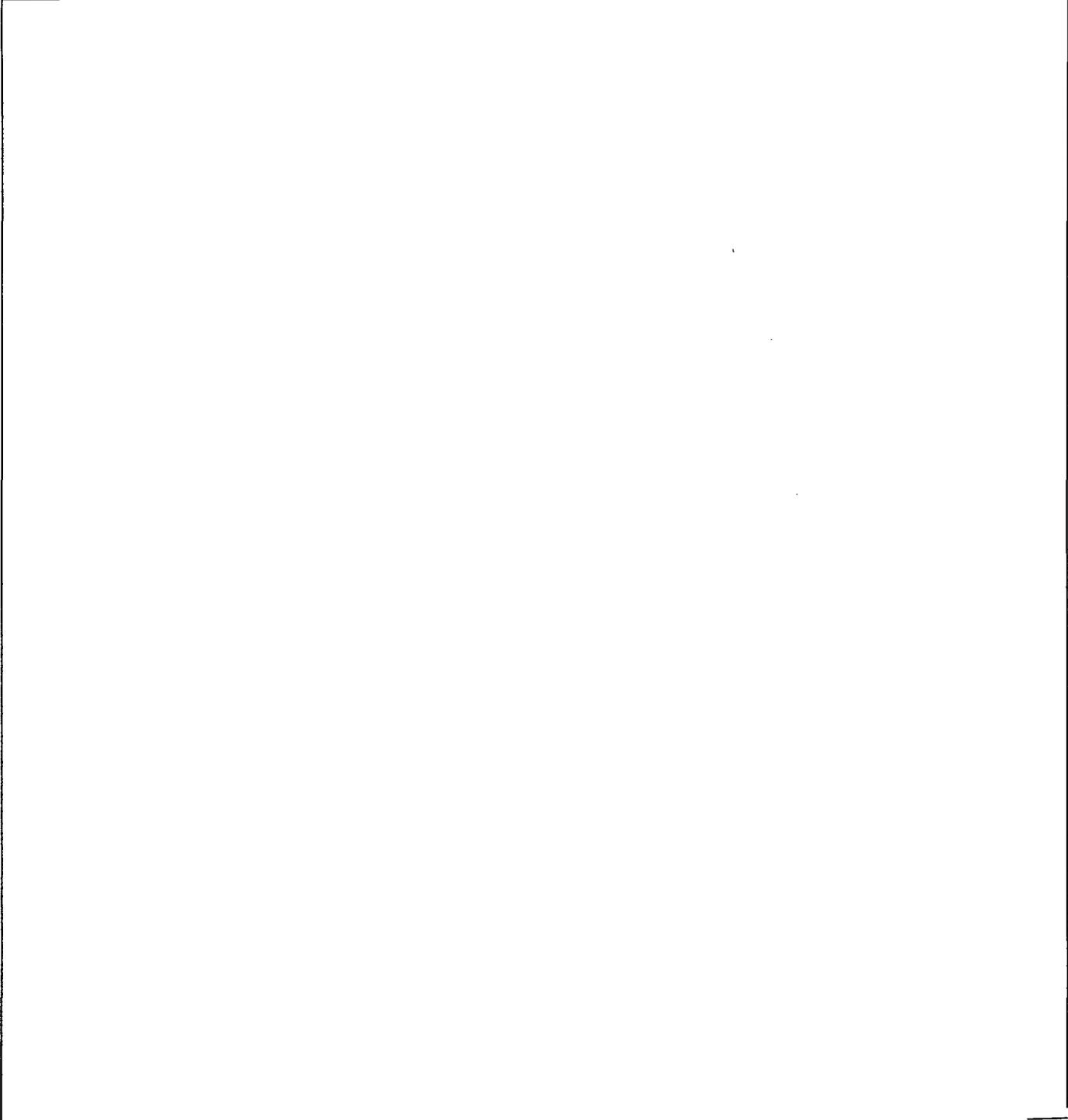
31.0 Shield Building Design Changes and the Implication for Safety Analysis

WESTINGHOUSE ELECTRIC COMPANY
AP1000 Licensing Design Change Document

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

SRI

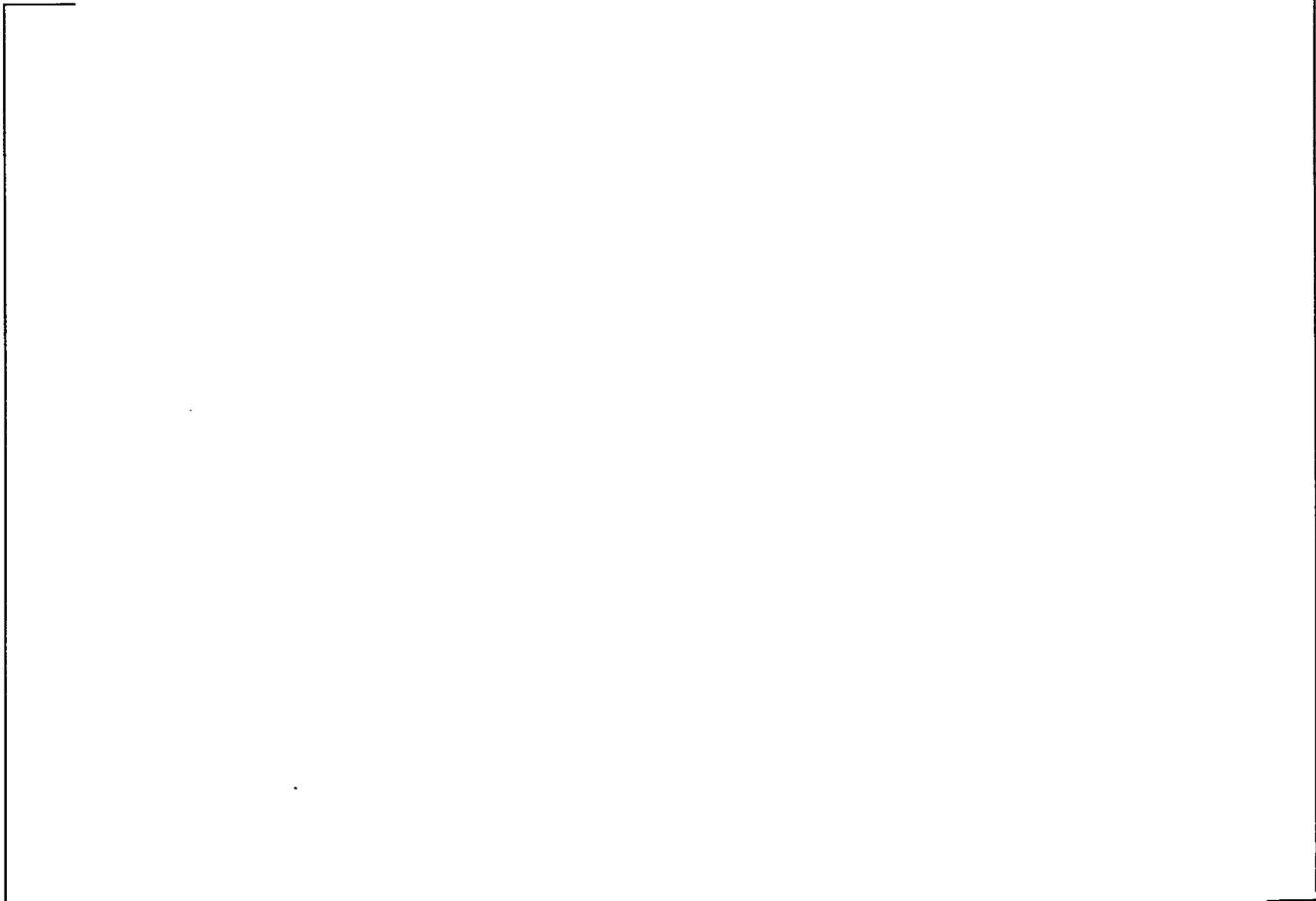


WESTINGHOUSE ELECTRIC COMPANY
AP1000 Licensing Design Change Document

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

SRI



Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

III. DCD MARK-UP

Figure III-1: DCD, Tier 1, Figure 3.3-1, Nuclear Island Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-2: DCD, Tier 1, Figure 3.3-1, Nuclear Island Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-3: DCD, Tier 1, Figure 3.3-2, Nuclear Island Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-4: DCD, Tier 1, Figure 3.3-2, Nuclear Island Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-5: DCD, Tier 1, Figure 3.3-5, Nuclear Island Plan View at Elevation 96'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-6: DCD, Tier 1, Figure 3.3-5, Nuclear Island Plan View at Elevation 96'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-7: DCD, Tier 1, Figure 3.3-6, Nuclear Island Plan View at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-8: DCD, Tier 1, Figure 3.3-6, Nuclear Island Plan View at Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-9: DCD, Tier 1, Figure 3.3-7, Nuclear Island Plan View at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-10: DCD, Tier 1, Figure 3.3-7, Nuclear Island Plan View at Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-11: DCD, Tier 1, Figure 3.3-8, Nuclear Island Plan View at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-12: DCD, Tier 1, Figure 3.3-8, Nuclear Island Plan View at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-13: DCD, Tier 1, Figure 3.3-9, Nuclear Island Plan View at Elevation 153'-3" and 160'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-14: DCD, Tier 1, Figure 3.3-9, Nuclear Island Plan View at Elevation 153'-3" and 160'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-15: DCD, Tier 1, Figure 3.3-10, Nuclear Island Plan View at Shield Building Roof, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-16: DCD, Tier 1, Figure 3.3-10, Nuclear Island Plan View at Shield Building Roof, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-17: DCD, Tier 1, Figure 3.3-11, Annex Building Plan View at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-18: DCD, Tier 1, Figure 3.3-11, Annex Building Plan View at Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-19: DCD, Tier 1, Figure 3.3-12, Annex Building Plan View at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-20: DCD, Tier 1, Figure 3.3-12, Annex Building Plan View at Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-21: DCD, Tier 1, Figure 3.3-13, Annex Building Plan View at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-22: DCD, Tier 1, Figure 3.3-13, Annex Building Plan View at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-23: DCD, Tier 2, Figure 1.2-6, Nuclear Island General Arrangement Plan at Elevation 96'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-24: DCD, Tier 2, Figure 1.2-6, Nuclear Island General Arrangement Plan at Elevation 96'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-25: DCD, Tier 2, Figure 1.2-7, Nuclear Island General Arrangement Plan at Elevation 107'-2" & 111'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-26: DCD, Tier 2, Figure 1.2-7, Nuclear Island General Arrangement Plan at Elevation 107'-2" & 111'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-27: DCD, Tier 2, Figure 1.2-8, Nuclear Island General Arrangement Plan at Elevation 117'-6" & 130'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-28: DCD, Tier 2, Figure 1.2-8, Nuclear Island General Arrangement Plan at Elevation 117'-6" & 130'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-29: DCD, Tier 2, Figure 1.2-9, Nuclear Island General Arrangement Plan at Elevation 117'-6" with Equipment, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-30: DCD, Tier 2, Figure 1.2-9, Nuclear Island General Arrangement Plan at Elevation 117'-6" with Equipment, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-31: DCD, Tier 2, Figure 1.2-10, Nuclear Island General Arrangement Plan at Elevation 135'-3",
Original Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-32: DCD, Tier 2, Figure 1.2-10, Nuclear Island General Arrangement Plan at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-33: DCD, Tier 2, Figure 1.2-11, Nuclear island General Arrangement Plan at Elevation 153'-0" & 160'-6", Original Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-34: DCD, Tier 2, Figure 1.2-11, Nuclear island General Arrangement Plan at Elevation 153'-0" & 160'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-35: DCD, Tier 2, Figure 1.3-12, Nuclear Island General Arrangement Plan at Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-36: DCD, Tier2, Figure 1.3-12, Nuclear Island General Arrangement Plan at Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-37: DCD, Tier 2, Figure 1.2-13, Nuclear Island General Arrangement Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-38: DCD, Tier 2, Figure 1.2-13, Nuclear Island General Arrangement Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-39: DCD, Tier 2, Figure 1.2-14, Nuclear Island General Arrangement Section A-A with Equipment, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-40: DCD, Tier 2, Figure 1.2-14, Nuclear Island General Arrangement Section A-A with Equipment, Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-41: DCD, Tier 2, Figure 1.2-15, Nuclear Island General Arrangement Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-42: DCD, Tier 2, Figure 1.2-15, Nuclear Island General Arrangement Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-43: DCD, Tier 2, Figure 1.2-16, Nuclear Island General Arrangement Section B-B with Equipment, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-44: DCD, Tier 2, Figure 1.2-16, Nuclear Island General Arrangement Section B-B with Equipment, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-45: DCD, Tier 2, Figure 1.2-18, Annex Building General Arrangement Plan at Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-46: DCD, Tier 2, Figure 1.2-18, Annex Building General Arrangement Plan at Elevation 100'-0" & 107'-2", Revised Configuration. DCP 244 is marked to indicate a change made to the original Annex Building expansion layout. DCP 160 is marked for clarity.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-47: DCD, Tier 2, Figure 1.2-19, Annex Building General Arrangement Plan at Elevation 117'-6" & 126'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-48: DCD, Tier 2, Figure 1.2-19, Annex Building General Arrangement Plan at Elevation 117'-6" & 126'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-49: DCD, Tier 2, Figure 1.2-20, Annex Building General Arrangement Plan at Elevation 135'-3", 156'-0", & 158'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-50: DCD, Tier 2, Figure 1.2-20, Annex Building General Arrangement Plan at Elevation 135'-3", 156'-0", & 158'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-51: DCD, Tier 2, Figure 1.2-21, Diesel Generator Building General Arrangement Plan at Elevation 100'-0" & Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-52: DCD, Tier 2, Figure 1.2-21, Diesel Generator Building General Arrangement Plan at Elevation 100'-0" & Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-53: DCD, Tier 2, Figure 1.2-22, Radwaste Building General Arrangement Plan at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-54: DCD, Tier 2, Figure 1.2-22, Radwaste Building General Arrangement Plan at Elevation 100'-0",
Revised Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-55: DCD, Tier 2, Figure 1.2-23, Turbine Building General Arrangement Plan at Elevation 100'-0",
Original Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-56: DCD, Tier 2, Figure 1.2-23, Turbine Building General Arrangement Plan at Elevation 100'-0", Revised Configuration. DCP 160 changes marked to indicate a change made to the revised south bay of the turbine building.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-57: DCD, Tier 2, Figure 1.2-24, Turbine Building General Arrangement Plan at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-58: DCD, Tier 2, Figure 1.2-24, Turbine Building General Arrangement Plan at Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-59: DCD, Tier 2, Figure 1.2-25, Turbine Building General Arrangement Plan at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-60: DCD, Tier 2, Figure 1.2-25, Turbine Building General Arrangement Plan at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-61: DCD, Tier 2, Figure 1.2-26, Turbine Building General Arrangement Plan at Elevation 161'-0",
Original Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-62: DCD, Tier 2, Figure 1.2-26, Turbine Building General Arrangement Plan at Elevation 161'-0",
Revised Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-63: DCD, Tier 2, Figure 1.2-27, Turbine Building General Arrangement Plan at Elevation 161'-0" with Equipment, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-64: DCD, Tier 2, Figure 1.2-27, Turbine Building General Arrangement Plan at Elevation 161'-0" with Equipment, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-65: DCD, Tier 2, Figure 1.2-28, Turbine Building General Arrangement Plan at Elevation 194'-0" & 224'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-66: DCD, Tier 2, Figure 1.2-28, Turbine Building General Arrangement Plan at Elevation 245'-0" & 226'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-67: DCD, Tier 2, Figure 1.2-29, Turbine Building General Arrangement Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-68: DCD, Tier 2, Figure 1.2-29, Turbine Building General Arrangement Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-69: DCD, Tier 2, Figure 1.2-30, Turbine Building General Arrangement Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-70: DCD, Tier 2, Figure 1.2-30, Turbine Building General Arrangement Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-71: DCD, Tier 2, Figure 3.7.2-12 (Sheet 3 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-72: DCD, Tier 2, Figure 3.7.2-12 (Sheet 3 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 100'-0" & 107'-2", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-73: DCD, Figure 3.7.2-12 (Sheet 4 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-74: DCD, Figure 3.7.2-12 (Sheet 4 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 117'-6", Revised Configuration

WESTINGHOUSE ELECTRIC COMPANY
AP1000 Licensing Design Change Document

Page 92 of 258

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-75: DCD, Tier 2, Figure 3.7.2-12 (Sheet 5 of 12), Nuclear island Key Structural Dimensions Plan at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-76: DCD, Tier 2, Figure 3.7.2-12 (Sheet 5 of 12), Nuclear island Key Structural Dimensions Plan at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-77: DCD, Tier 2, Figure 3.7.2-12 (Sheet 6 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 153'-0" & 160'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-78: DCD, Tier 2, Figure 3.7.2-12 (Sheet 6 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 153'-0" & 160'-6", Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-79: DCD, Tier 2, Figure 3.7.2-12 (Sheet 7 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-80: DCD, Tier 2, Figure 3.7.2-12 (Sheet 7 of 12), Nuclear Island Key Structural Dimensions Plan at Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-81: DCD, Tier 2, Figure 3.7.2-12 (Sheet 8 of 12), Nuclear Island Key Structural Dimensions Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-82: DCD, Tier 2, Figure 3.7.2-12 (Sheet 8 of 12), Nuclear Island Key Structural Dimensions Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-83: DCD, Tier 2, Figure 3.7.2-12 (Sheet 9 of 12), Nuclear Island Key Structural Dimensions Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-84: DCD, Tier 2, Figure 3.7.2-12 (Sheet 9 of 12), Nuclear Island Key Structural Dimensions Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-85: DCD, Tier 2, Figure 3.7.2-12 (Sheet 11 of 12), Nuclear Island Key Structural dimensions Section G-G, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-86: DCD, Tier 2, Figure 3.7.2-12 (Sheet 11 of 12), Nuclear Island Key Structural dimensions Section G-G, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-87: DCD, Tier 2, Figure 3.7.2-12 (Sheet 12 of 12), Nuclear Island Key Structural Dimensions Section I-I, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-88: DCD, Tier 2, Figure 3.7.2-12 (Sheet 12 of 12), Nuclear Island Key Structural Dimensions Section I-I, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-89: DCD, Tier 2, Figure 3.7.2-19 (Sheet 1 of 16), Annex Building Key Structural Dimensions Plan at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-90: DCD, Tier 2, Figure 3.7.2-19 (Sheet 1 of 16), Annex Building Key Structural Dimensions Plan at Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-91: DCD, Tier 2, Figure 3.7.2-19 (Sheet 2 of 10), Annex Building Key Structural Dimensions Plan at Elevation 107'-2" and 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-92: DCD, Tier 2, Figure 3.7.2-19 (Sheet 2 of 10), Annex Building Key Structural Dimensions Plan at Elevation 107'-2" and 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-93: DCD, Tier 2, Figure 3.7.2-19 (Sheet 3 of 10), Annex Building Key Structural Dimensions Plan at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-94: DCD, Tier 2, Figure 3.7.2-19 (Sheet 3 of 10), Annex Building Key Structural Dimensions Plan at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-97: DCD, Tier 2, Figure 3.7.2-19 (Sheet 6 of 10), Annex Building Key Structural Dimensions Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-98: DCD, Tier 2, Figure 3.7.2-19 (Sheet 6 of 10), Annex Building Key Structural Dimensions Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-99: DCD, Tier 2, Figure 3.7.2-19 (Sheet 7 of 10), Annex Building Key Structural Dimensions Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-100: DCD, Tier 2, Figure 3.7.2-19 (Sheet 7 of 10), Annex Building Key Structural Dimensions Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-101: DCD, Tier 2, Figure 3.7.2-19 (Sheet 8 of 10), Annex Building Key Structural Dimensions Section C-C, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-102: DCD, Tier 2, Figure 3.7.2-19 (Sheet 8 of 10), Annex Building Key Structural Dimensions Section C-C, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-103: DCD, Tier 2, Figure 3.7.2-19 (Sheet 9 of 10), Annex Building Key Structural Dimension Sections D-D, E-E, & F-F, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-104: DCD, Tier 2, Figure 3.7.2-19 (Sheet 9 of 10), Annex Building Key Structural Dimension Sections D-D, E-E, & F-F, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-105: DCD, Tier 2, Figure 3.7.2-19 (Sheet 10 of 10), Annex Building Key Structural Dimensions Sections G-G, H-H, & J-J, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-106: DCD, Tier 2, Figure 3.7.2-19 (Sheet 10 of 10), Annex Building Key Structural Dimensions Sections G-G, H-H, & J-J, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-107: DCD, Tier 2, Figure 3.8.4-2, Passive Containment Cooling Tank, Original Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-108: DCD, Tier 2, Figure 3.8.4-2, Passive Containment Cooling Tank, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-109: DCD, Tier 2, Figure 6.2.4-5 Hydrogen Igniter Locations – Section View, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-110: DCD, Tier 2, Figure 6.2.4-5 Hydrogen Igniter Locations – Section View, Revised Configurations

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-111: DCD, Tier 2, Figure 6.2.4-9, Hydrogen Igniter Locations Plan View Elevation 118'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-112: DCD, Tier 2, Figure 6.2.4-9, Hydrogen Igniter Locations Plan View Elevation 118'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-113: DCD, Tier 2, Figure 6.2.4-10, Hydrogen Igniter Locations Plan View Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-114: DCD, Tier 2, Figure 6.2.4-10, Hydrogen Igniter Locations Plan View Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-115: DCD, Tier 2, Figure 6.2.4-11, Hydrogen Igniter Locations Plan View Elevation 162'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-116: DCD, Tier 2, Figure 6.2.4-11, Hydrogen Igniter Locations Plan View Elevation 162'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-117: DCD, Tier 2, Figure 6.2.4-13, Hydrogen Igniter Locations Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-118: DCD, Tier 2, Figure 6.2.4-13, Hydrogen Igniter Locations Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-119: DCD, Tier 2, Figure 9A-1 (Sheet 4 of 16), Nuclear Island Fire Area Plan at Elevation 96'-6",
Original Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-120: DCD, Tier 2, Figure 9A-1 (Sheet 4 of 16), Nuclear Island Fire Area Plan at Elevation 96'-6",
Revised Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-121: DCD, Tier 2, Figure 9A-1 (Sheet 5 of 16), Nuclear Island Fire Areas Plan at Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-122: DCD, Tier 2, Figure 9A-1 (Sheet 5 of 16), Nuclear Island Fire Areas Plan at Elevation 100'-0" & 107'-2", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-123: DCD, Tier 2, Figure 9A-1 (Sheet 6 of 16), Nuclear Island Fire Area Plan at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-124: DCD, Tier 2, Figure 9A-1 (Sheet 6 of 16), Nuclear Island Fire Area Plan at Elevation 117'-6",
Revised Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-125: DCD, Tier 2, Figure 9A-1 (Sheet 7 of 16), Nuclear Island Fire Area Plan at Elevation 135'-3",
Original Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

**Figure III-126: DCD, Tier 2, Figure 9A-1 (Sheet 7 of 16), Nuclear Island Fire Area Plan at Elevation 135'-3",
Revised Configuration**

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-127: DCD, Tier 2, Figure 9A-1 (Sheet 8 of 14), Nuclear Island Fire Areas Plan at Elevation 153'-0" & 160'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-128: DCD, Tier 2, Figure 9A-1 (Sheet 8 of 14), Nuclear Island Fire Areas Plan at Elevation 153'-0" & 160'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-129: DCD, Tier 2, Figure 9A-1 (Sheet 9 of 16), Nuclear Island Fire Areas Plan at Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-130: DCD, Tier 2, Figure 9A-1 (Sheet 9 of 16), Nuclear Island Fire Areas Plan at Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-131: DCD, Tier 2, Figure 9A-1 (Sheet 10 of 16), Nuclear Island Fire Area Section A-A, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-132: DCD, Tier 2, Figure 9A-1 (Sheet 10 of 16), Nuclear Island Fire Area Section A-A, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-133: DCD, Tier 2, Figure 9A-1 (Sheet 11 of 16), Nuclear Island Fire Area Section B-B, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-134: DCD, Tier 2, Figure 9A-1 (Sheet 11 of 16), Nuclear Island Fire Area Section B-B, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-135: DCD, Tier 2, Figure 9A-1 (Sheet 13 of 16), Nuclear Island Fire Area Section G-G, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-136: DCD, Tier 2, Figure 9A-1 (Sheet 13 of 16), Nuclear Island Fire Area Section G-G, Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-137: DCD, Tier 2, Figure 9A-1 (Sheet 15 of 16), Nuclear Island Fire Area Section K-K, Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-138: DCD, Tier 2, Figure 9A-1 (Sheet 15 of 16), Nuclear Island Fire Area Section K-K, Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-139: DCD, Tier 2, Figure 9A-2 (Sheet 1 of 5), Turbine Building Fire Area Plan at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-140: DCD, Tier 2, Figure 9A-2 (Sheet 1 of 5), Turbine Building Fire Area Plan at Elevation 100'-0", Revised Configuration. DCP 160 changes marked to indicate a change made to the revised south bay of the turbine building.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-141: DCD, Tier 1, Figure 9A-2 (Sheet 2 of 5), Turbine Building Fire Area Plan at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-142: DCD, Tier 1, Figure 9A-2 (Sheet 2 of 5), Turbine Building Fire Area Plan at Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-143: DCD, Tier 2, Figure 9A-2 (Sheet 3 of 5), Turbine Building Fire Area Plan at Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-144: DCD, Tier 2, Figure 9A-2 (Sheet 3 of 5), Turbine Building Fire Area Plan at Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-145: DCD, Tier 2, Figure 9A-2 (Sheet 4 of 5), Turbine Building Fire Area Plan at Elevation 161'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-146: DCD, Tier 2, Figure 9A-2 (Sheet 4 of 5), Turbine Building Fire Area Plan at Elevation 161'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-147: DCD, Tier 2, Figure 9A-2 (Sheet 5 of 5), Turbine Building Fire Areas Plan at Elevation 194'-0" & 224'-10", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-148: DCD, Tier 2, Figure 9A-2 (Sheet 5 of 5), Turbine Building Fire Areas Plan at Elevation 245'-0" & 226'-10", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-149: DCD, Tier 2, Figure 9A-3 (Sheet 1 of 3), Annex I & II Building Fire Areas Plan at Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-150: DCD, Tier 2, Figure 9A-3 (Sheet 1 of 3), Annex I & II Building Fire Areas Plan at Elevation 100'-0" & 107'-2", Revised Configuration. DCP 160 changes marked to indicate a change made to the original Annex Building expansion layout.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-151: DCD, Tier 2, Figure 9A-3 (Sheet 2 of 3), Annex I & II Building Fire Area Plan at Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-152: DCD, Tier 2, Figure 9A-3 (Sheet 2 of 3), Annex I & II Building Fire Area Plan at Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-153: DCD, Tier 2, Figure 9A-3 (Sheet 3 of 3), Annex I & II Building Fire Area Plan on Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-154: DCD, Tier 2, Figure 9A-3 (Sheet 3 of 3), Annex I & II Building Fire Area Plan on Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-155: DCD, Tier 2, Figure 9A-4, Radwaste Building Fire Area Plan at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-156: DCD, Tier 2, Figure 9A-4, Radwaste Building Fire Area Plan at Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-157: DCD, Tier 2, Figure 9A-5, Diesel Generator Fire Area Plan at Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-158: DCD, Tier 2, Figure 9A-5, Diesel Generator Fire Area Plan at Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-159: DCD, Tier 2, Figure 12.3-1 (Sheet 5 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 96'6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-160: DCD, Tier 2, Figure 12.3-1 (Sheet 5 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 96'6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-161: DCD, Tier 2, Figure 12.3-1 (Sheet 6 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-162: DCD, Tier 2, Figure 12.3-1 (Sheet 6 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-163: DCD, Tier 2, Figure 12.3-1 (Sheet 7 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-164: DCD, Tier 2, Figure 12.3-1 (Sheet 7 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-165: DCD, Tier 2, Figure 12.3-1 (Sheet 8 of 16) Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-166: DCD, Tier 2, Figure 12.3-1 (Sheet 8 of 16) Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-167: DCD, Tier 2, Figure 12.3-1 (Sheet 9 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 153'-0" & 160'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-168: DCD, Tier 2, Figure 12.3-1 (Sheet 9 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 153'-0" & 160'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-169: DCD, Tier 2, Figure 12.3-1 (Sheet 10 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-170: DCD, Tier 2, Figure 12.3-1 (Sheet 10 of 16), Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-171: DCD Tier 2, Figure 12.3-1 (Sheet 11 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-172: DCD Tier 2, Figure 12.3-1 (Sheet 11 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 100'-0" & 107'-2", Revised Configuration. DCP 160 changes marked to indicate a change made to the original Annex Building expansion layout.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-173: DCD, Tier 2, 12.3-1 (Sheet 12 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 117'-6" & 126'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-174: DCD, Tier 2, 12.3-1 (Sheet 12 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 117'-6" & 126'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-175: DCD, Tier 2, Figure 12.3-1 (Sheet 13 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-176: DCD, Tier 2, Figure 12.3-1 (Sheet 13 of 16), Radiation Zones, Normal Operations/Shutdown Annex Building, Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-177: DCD, Tier 2, Figure 12.3-1 (Sheet 14 of 16), Radiation Zones, Normal Operations/Shutdown Radwaste Building, Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-178: DCD, Tier 2, Figure 12.3-1 (Sheet 14 of 16), Radiation Zones, Normal Operations/Shutdown Radwaste Building, Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-179: DCD, Tier 2, Figure 12.3-1 (Sheet 15 of 16), Radiation Zones, Normal Operations/Shutdown Turbine Building, Elevation 100'0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-180: DCD, Tier 2, Figure 12.3-1 (Sheet 15 of 16), Radiation Zones, Normal Operations/Shutdown Turbine Building, Elevation 100'0", Revised Configuration. DCP 160 changes marked to reflect changes made to the new south bay of the turbine building.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-181: DCD, Tier 2, Figure 12.3-1 (Sheet 16 of 16), Radiation Zones, Normal Operations/Shutdown Turbine Building, Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-182: DCD, Tier 2, Figure 12.3-1 (Sheet 16 of 16), Radiation Zones, Normal Operations/Shutdown Turbine Building, Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-183: DCD, Tier 2, Figure 12.3-2 (Sheet 5 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 96'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-184: DCD, Tier 2, Figure 12.3-2 (Sheet 5 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 96'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-185: DCD, Tier 2, Figure 12.3-2 (Sheet 6 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-186: DCD, Tier 2, Figure 12.3-2 (Sheet 6 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 100'-0" & 107'-2", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-187: DCD, Tier 2, Figure 12.3-2 (Sheet 7 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-188: DCD, Tier 2, Figure 12.3-2 (Sheet 7 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-189: DCD, Tier 2, Figure 12.3-2 (Sheet 8 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-190: DCD, Tier 2, Figure 12.3-2 (Sheet 8 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-191: DCD, Tier 2, Figure 12.3-2 (Sheet 9 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 153'-0" & 160'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-192: DCD, Tier 2, Figure 12.3-2 (Sheet 9 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 153'-0" & 160'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-193: DCD, Tier 2, Figure 12.3-2 (Sheet 10 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-194: DCD, Tier 2, Figure 12.3-2 (Sheet 10 of 15), Radiation Zones, Post-Accident Nuclear Island, Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-195: DCD, Tier 2, Figure 12.3-2 (Sheet 11 of 15) Annex Building, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-196: DCD, Tier 2, Figure 12.3-2 (Sheet 11 of 15) Annex Building, Elevation 100'-0" & 107'-2", Revised Configuration. DCP 160 changes marked to indicate a change made to the original Annex Building expansion layout.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-197: DCD, Tier 2, Figure 13.3-2 (Sheet 12 of 15), Radiation Zones, Post-Accident Annex Building, Elevation 117'-6" & 126'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-198: DCD, Tier 2, Figure 13.3-2 (Sheet 12 of 15), Radiation Zones, Post-Accident Annex Building, Elevation 117'-6" & 126'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-199: DCD, Tier 2, Figure 12.3-2 (Sheet 13 of 15), Radiation Zones, Post-Accident Annex Building, Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-200: DCD, Tier 2, Figure 12.3-2 (Sheet 13 of 15), Radiation Zones, Post-Accident Annex Building, Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-201: DCD, Tier 2, Figure 12.3-2 (Sheet 14 of 15), Radiation Zones, Post-Accident Radwaste Building, Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-202: DCD, Tier 2, Figure 12.3-2 (Sheet 14 of 15), Radiation Zones, Post-Accident Radwaste Building, Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-203: DCD, Tier 2, Figure 12.3-2 (Sheet 15 of 15), Radiation Zones, Post-Accident Turbine Building, Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-204: DCD, Tier 2, Figure 12.3-2 (Sheet 15 of 15), Radiation Zones, Post-Accident Turbine Building, Elevation 100'-0", Revised Configuration. DCP 160 changes marked to reflect the changes made to the revised south bay of the turbine building.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-205: DCD, Tier 2, Figure 12.3-3 (Sheet 5 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 96'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-206: DCD, Tier 2, Figure 12.3-3 (Sheet 5 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 96'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-207: DCD, Tier 2, Figure 12.3-3 (Sheet 6 of 16) Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-208: DCD, Tier 2, Figure 12.3-3 (Sheet 6 of 16) Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-209: DCD, Tier 2, Figure 12.3-3 (Sheet 7 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-210: DCD, Tier 2, Figure 12.3-3 (Sheet 7 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-211: DCD, Tier 2, Figure 12.3-3 (Sheet 8 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-212: DCD, Tier 2, Figure 12.3-3 (Sheet 8 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-213: DCD, Tier 2, Figure 12.3-3 (Sheet 9 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 153'-0" & 160'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-214: DCD, Tier 2, Figure 12.3-3 (Sheet 9 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 153'-0" & 160'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-215: DCD, Tier 2, Figure 12.3-3 (Sheet 10 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 160'-6" & 180'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-216: DCD, Tier 2, Figure 12.3-3 (Sheet 10 of 16), Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 160'-6" & 180'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-217: DCD, Tier 2, Figure 12.3-3 (Sheet 11 of 16), Radiological Access Controls, Normal Operations/Shutdown Annex building, Elevation 100'-0" & 107'-2", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-218: DCD, Tier 2, Figure 12.3-3 (Sheet 11 of 16), Radiological Access Controls, Normal Operations/Shutdown Annex building, Elevation 100'-0" & 107'-2", Revised Configuration. DCP 160 changes marked to indicate a change made to the original Annex Building expansion layout.

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-219: DCD, Tier 2, Figure 12.3-3 (Sheet 12 of 16), Radiological Access Controls, Normal Operations/Shutdown Annex Building, Elevation 117'-6" & 126'-3", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-220: DCD, Tier 2, Figure 12.3-3 (Sheet 12 of 16), Radiological Access Controls, Normal Operations/Shutdown Annex Building, Elevation 117'-6" & 126'-3", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

FIGURE III-221: DCD, Tier 2, Figure 12.3-3 (Sheet 13 of 16) Radiological Access Controls, Normal Operations/Shutdown Annex Building Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

FIGURE III-222: DCD, Tier 2, Figure 12.3-3 (Sheet 13 of 16) Radiological Access Controls, Normal Operations/Shutdown Annex Building Elevation 135'-3", 146'-3", 156'-0", & 158'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-223: DCD, Tier 2, Figure 12.3-3 (Sheet 14 of 16), Radiological Access Controls, Normal Operations/Shutdown Radwaste Building, Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-224: DCD, Tier 2, Figure 12.3-3 (Sheet 14 of 16), Radiological Access Controls, Normal Operations/Shutdown Radwaste Building, Elevation 100'-0", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-225: DCD, Tier 2, Figure 12.3-3 (Sheet 15 of 16) Radiological Access Controls, Normal Operations/Shutdown Turbine Building Elevation 100'-0", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-226: DCD, Tier 2, Figure 12.3-3 (Sheet 15 of 16) Radiological Access Controls, Normal Operations/Shutdown Turbine Building Elevation 100'-0", Revised Configuration. DCP 160 changes marked to reflect changes made to the revised south bay of the turbine building.

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-227: DCD, Tier 2, Figure 12.3-3 (Sheet 16 of 16), Radiological Access Controls, Normal Operations/Shutdown Turbine Building, Elevation 117'-6", Original Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-228: DCD, Tier 2, Figure 12.3-3 (Sheet 16 of 16), Radiological Access Controls, Normal Operations/Shutdown Turbine Building, Elevation 117'-6", Revised Configuration

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-229: DCD Chapter 9A Text Edit, Initiated by DCP 167 and 232

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-230: DCD Chapter 9A Text Edit, Initiated by DCP 167

WESTINGHOUSE ELECTRIC COMPANY
AP1000 Licensing Design Change Document

Page 246 of 258

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-231: DCD Table 9A-3 Edit, Initiated by DCP 167 and 232

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-232: DCD, Tier 2, Figure 1.2-2, Site Plan, Original Configuration. These changes are mirrored in Figures 3.8.5-1, 12.3-1 (Sheet 2 of 16), 12.3-2 (Sheet 2 of 16), 12.3-3 (Sheet 2 of 16), and 15A-1

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

Figure III-233: DCD, Tier 2, Figure 1.2-2, Site Plan, Revised Configuration. These changes are mirrored in Figure 3.8.5-1, 12.3-1 (Sheet 2 of 16), 12.3-2 (Sheet 2 of 16), 12.3-3 (Sheet 2 of 16), and 15A-1

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

IV. REGULATORY IMPACT

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 documents 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 the Tier 1 information of the DCD Rev.15. It is determined that this report does reflect a change to the Tier 1 information and therefore requires NRC approval.

A. FSER IMPACT

The changes noted in this document may impact the description of the building design fire protection and radiological protections in the FSER. Based upon the evaluations documented in this TR, including confirmation that the regulatory criteria and guidance continue to be met, the conclusions of the FSER are not expected to be impacted.

B. SCREENING QUESTIONS (Check correct response and provide justification for that determination under each response)

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

1. Does the proposed change involve a change to an SSC that adversely affects a DCD described design function? YES NO

The changes to the buildings and structures do not alter the design function of the buildings and structures. The changes to the buildings and structures do not adversely affect the reliability of the systems contained within the buildings and structures.

2. Does the proposed change involve a change to a procedure that adversely affects how DCD described SSC design functions are performed or controlled? YES NO

The changes to the buildings and structures do not affect the performing or controlling of design functions of the systems contained within the buildings and structures.

3. Does the proposed activity involve revising or replacing a DCD described evaluation methodology that is used in establishing the design bases or used in the safety analyses? YES NO

The changes to the buildings and structures do not impact evaluation methodology.

4. Does the proposed activity involve a test or experiment not described in the DCD, where an SSC is utilized or controlled in a manner that is outside the reference bounds of the design for that SSC or is inconsistent with analyses or descriptions in the DCD? YES NO

The changes to the buildings and structures do not alter the operation of the reactor, reactor coolant system, or associated systems.

- C. 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. 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? YES NO

The changes to the buildings and structures do not alter the design function of the reactor coolant system or associated systems. The changes to the buildings and structures will not affect accident precursors.

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? YES NO

Document Number: APP-GW-GLN-105 Revision Number: 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

and previously evaluated in the plant-specific DCD?

The changes to the buildings and structures do not alter the design function of the reactor coolant system or components and systems relied on to mitigate postulated accident conditions.

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? YES NO

The changes to the buildings and structures do not alter the response of systems relied on to mitigate postulated accident conditions. Therefore the calculated radioactivity release from a postulated accident condition is not affected.

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? YES NO

The changes to the buildings and structures do not alter the design functions or response to postulated accident conditions and anticipated transients for the components in the reactor coolant system or associated systems. Therefore the calculated radioactivity release from a malfunction of equipment is not affected.

5. Does the proposed departure create a possibility for an accident of a different type than any evaluated previously in the plant-specific DCD? YES NO

The changes to the buildings and structures do not alter the design functions of the reactor coolant system. The change in the valve in-service test requirements does not add or modify accident precursors.

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? YES NO

The changes to the buildings and structures do not alter operating conditions or design functions of SSCs important to safety. Therefore there is no new malfunction.

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? YES NO

The changes to the buildings and structures do not alter the pressure boundary integrity design function of the reactor coolant system or other SSCs important to safety.

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? YES NO

The changes to the buildings and structures do not alter the methodology of the evaluation of the pressure boundary integrity or of the safety analyses.

Document Number: APP-GW-GLN-105 Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- The answers to the evaluation questions above are "NO" and the proposed departure from Tier 2 does not require prior NRC review to be included in plant specific FSARs as provided in 10 CFR Part 52, Appendix D, Section VIII. B.5.b
- One or more of the answers to the evaluation questions above are "YES" and the proposed change requires NRC review.

D. 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.

1. Does the proposed activity result in an impact to features that mitigate severe accidents. If YES NO the answer is Yes answer Questions 2 and 3 below.

Altering the configuration of the buildings and structures does not have an adverse effect of the function of features that mitigate severe accidents.

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? YES NO N/A

3. Is there is a substantial increase in the consequences to the public of a particular severe accident previously reviewed? YES NO N/A

- The answers to the evaluation questions above are "NO" or are not applicable and the proposed departure from Tier 2 does not require prior NRC review to be included in plant specific FSARs as provided in 10 CFR Part 52, Appendix D, Section VIII. B.5.c
- One or more of the he answers to the evaluation questions above are "YES" and the proposed change requires NRC review.

E. SECURITY ASSESSMENT

1. Does the proposed change have an adverse impact on the security assessment of the AP1000? YES NO

The design changes that alter barriers that control access to protected areas of the plant have been evaluated and do not have an adverse impact. The design changes will not alter alarms that control access to protected

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

areas of the plant. The changes will not alter requirements for security personnel.

V. References

1. APP-GW-GL-700, "AP1000 Design Control Document," Rev. 15, 11/11/05.
2. APP-GW-GL-700, "AP1000 Design Control Document," Rev. 16, 5/26/07.
3. APP-GW-GEE-040, "AP1000 Pressurizer Changes," Rev. 3, 5/19/06.
4. APP-GW-GEE-069, "IHP Dose Reduction-Change in Material of ICI Sheath," Rev. 1, 10/11/06.
5. APP-GW-GEE-103, "Access Control Modifications to the Auxiliary and Annex Buildings," Rev. 1, 3/6/07.
6. APP-GW-GEE-112, "Spent Fuel Pool Layout Capacity," Rev. 0, 6/20/06.
7. APP-GW-GEE-121, "DAS Platform Technology, Remote Indication, Alternate Squib Valve Capability," Rev. 1, 12/20/06.
8. APP-GW-GEE-130, "AP1000 Integrated Head Package Configuration," Rev. 0, 10/25/06.
9. APP-GW-GEE-158, "Expanded Office Area in AP1000 Annex Building," Rev. 1, 4/2/07.
10. APP-GW-GEE-159, "AP1000 Turbine Building Variable Frequency Drive Relocation and Related Changes," Rev. 0, 5/17/07.
11. APP-GW-GEE-160, "Specialty & Water Tight Doors (Auxiliary, Annex, and Turbine Buildings), Rev. 1, 5/17/07.
12. APP-GW-GEE-162, "Turbine Building Observation Posts and Personnel Enclosures," Rev. 0, 5/17/07.
13. APP-GW-GEE-167, "Radwaste Building Extension," Rev. 1, 3/20/07.
14. APP-GW-GEE-168, "AP1000 Annex Building Area 2 East Stairwell/Elevator Enclosure Observation Positions and Roof Parapet," Rev. 1, 4/30/07.
15. APP-GW-GEE-170, "Polar Crane Design," Rev. 0, 2/8/07.
16. APP-GW-GEE-174, "AP1000 Diesel Generator Building," Rev. 1, 4/16/07.
17. APP-GW-GEE-175, "Dry Storage Cask Transportation Related Modifications (Auxiliary Building)," Rev. 0, 5/17/07.
18. APP-GW-GEE-190, "Main Control Room Layout," Rev. 0, 2/28/07.
19. APP-GW-GEE-201, "Fast Bus Transfer," Rev. 0, 4/2/07.
20. APP-GW-GEE-207, "AP1000 PXS Containment Recirculation and IRWST Screen Configurations," Rev. 0, 3/29/07.
21. APP-GW-GEE-216, "Toshiba Turbine-Generator and Steam Cycle Design," Rev. 0, 3/30/07.
22. APP-GW-GEE-228, "Outside Air Inlet Structure," Rev. 0, 5/10/07.
23. APP-GW-GEE-232, "Radwaste Building Extension/WLS Monitor Tank Addition," Rev. 0, 4/27/07.
24. APP-GW-GEE-233, "MCR Layout-Rooms Outside of Main Control Room," Rev. 0, 4/2/07.
25. APP-GW-GEE-238, "Control Support Area in Annex Building," Rev. 0, 4/10/07.
26. APP-GW-GEE-244, "Addition of Cyber Security Level 3 Computer Room," Rev. 1, 5/8/07.
27. APP-GW-GEE-246, "Containment Air Cooling Diffuser Grating Platforms," Rev. 1, 4/27/07.
28. APP-GW-GEE-248, "AP1000 Shield Building Structure Design Enhancement," Rev. 1, 4/27/07.
29. APP-GW-GEE-269, "Shield Building Roof Air Inlet Openings and Associated Platforms," Rev. 0, 5/18/07.
30. APP-GW-GLR-016/TR 36, "AP1000 Pressurizer Design," Rev. 0, 5/22/06.
31. APP-GW-GLN-003/TR 37, "Hydrogen Igniter Locations," Rev. 1, 2/16/07.
32. APP-GW-GLN-004/TR 39, "Instrumentation and Design Control Change," Rev. 0, 5/22/06.

Document Number: APP-GW-GLN-105 **Revision Number:** 1
Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

33. APP-GW-GLR-079/TR 26, "AP1000 Verification of Water Sources for Long-Term Recirculation Cooling Following a LOCA," Rev. 1, 5/30/07.
34. APP-GW-GLR-062/TR 49, "AP1000 Enhancement Report," Rev. 1, 3/9/07.
35. APP-GW-GLR-033/TR 54, "Spent Fuel Storage Racks Structure/Seismic Analysis," Rev. 0, 7/6/06.
36. APP-GW-GLR-045/TR 57, "Nuclear Island: Evaluation of Critical Sections," Rev. 0, 4/5/07
37. APP-GW-GLN-014/TR 61, "AP1000 Integrated Head Package," Rev. 0, 11/13/06.
38. APP-GW-GLR-029/TR 65, "Spent Fuel Storage Racks Criticality Analysis," Rev. 0, 6/27/06.
39. APP-GW-GLN-075/TR 74C, "AP1000 Generic Technical Specifications for Design Changes," Rev. 0, 3/12/07.
40. APP-GW-GLN-079/TR 79, "Electrical System Design Changes," Rev. 0, 7/27/07.
41. APP-GW-GLR-082/TR 82, "Execution and Documentation of Human System Interface Design Implementation Plan," Rev. 0, 5/24/07.
42. APP-GW-GLN-018/TR 86, "Alternate Steam and power Conversion Design," Rev. 1, 6/25/07.
43. APP-GW-GLN-022/TR 97, "DAS Platform Technology and Remote Indication Change," Rev. 1, 5/14/07.
44. APP-GW-GLR-194/TR 104, "AP1000 Cyber Security Implementation," Rev. 0, 5/24/07.
45. APP-GW-GLN-106/TR 106, "AP1000 Licensing Design Changes for Mechanical System and Component Design Updates," Rev. 0, 6/12/07.
46. APP-GW-GLR-107/TR 107, "AP1000 Technical Support Center," Rev. 1, 6/14/07.
47. APP-GW-GLN-111/TR 111, "Component Cooling System and Service Water System Changes Required for Increased Heat Loads," Rev. 0 5/27/07.
48. APP-GW-GLN-116/TR 116, "Additional Liquid Radwaste Monitor Tanks and Radwaste Building Extension," Rev. 0, 5/23/07.
49. APP-GW-GLN-122/TR 122, "Offsite and Control Room Dose Changes," Rev. 0, 7/27/07.
50. General Arrangement Drawings
 - APP-1000-P2-901, "AP1000 Nuclear Island General Arrangement Section A-A"
 - APP-1000-P2-902, "AP1000 Nuclear Island General Arrangement Section B-B"
 - APP-1000-P2-904, "AP1000 Nuclear Island General Arrangement Section G-G"
 - APP-1000-P2-906, "AP1000 Nuclear Island General Arrangement Section K-K, L-L"
 - APP-1000-P2-909, "AP1000 Nuclear Island General Arrangement Section I-I, R-R"
 - APP-1020-P2-002, "AP1000 Nuclear Island General Arrangement Plan at El. 96'-6""
 - APP-1030-P2-001, "AP1000 Nuclear Island General Arrangement Plan at El. 100'-0" & 107'-2""
 - APP-1040-P2-001, "AP1000 Nuclear Island General Arrangement Plan at El. 117'-6""
 - APP-1050-P2-001, "AP1000 Nuclear Island General Arrangement Plan at El. 135'-3""
 - APP-1050-P2-002, "AP1000 Nuclear Island General Arrangement Plan at El. 153'-0""
 - APP-1060-P2-001, "AP1000 Nuclear Island General Arrangement Roof Plan at El. 160'-6" & 153'-0""
 - APP-1070-P2-001, "AP1000 Nuclear Island General Arrangement Plan at El. 160'-6" & 180'-0""
 - APP-2000-P2-901, "AP1000 Turbine Building General Arrangement Section A-A"
 - APP-2000-P2-902, "AP1000 Turbine Building General Arrangement Section B-B"
 - APP-2030-P2-001, "AP1000 Turbine Building General Arrangement Base Slab Plan at El. 89'-0" & 100'-0""
 - APP-2040-P2-001, "AP1000 Turbine Building General Arrangement Intermediate Level Plan at El. 117'-6""

Document Number: APP-GW-GLN-105

Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- APP-2050-P2-001, "AP1000 Turbine Building General Arrangement Intermediate Level Plan at El. 135'-3"
- APP-2050-P2-002, "AP1000 Turbine Building General Arrangement Intermediate Level Plan at El. 149'-0"
- APP-2060-P2-001, "AP1000 Turbine Building General Arrangement Operating Deck Plan at El. 160'-0"
- APP-2060-P2-002, "AP1000 Turbine Building General Arrangement Plan at El. 187'-0"
- APP-2070-P2-001, "AP1000 Turbine Building General Arrangement Roof Plan at El. 245'-0" and 226'-0"
- APP-4000-P2-901, "AP1000 General Arrangement Annex Building Section D-D"
- APP-4000-P2-902, "AP1000 General Arrangement Annex Building Section B-B"
- APP-4000-P2-903, "AP1000 General Arrangement Annex Building Section A-A & C-C"
- APP-4030-P2-001, "AP1000 General Arrangement Annex Building Plan at El. 100'-0" & 107'-2"
- APP-4040-P2-001, "AP1000 General Arrangement Annex Building Plan at El. 107'-2", 117'-6", & 126'-3"
- APP-4050-P2-001, "AP1000 General Arrangement Annex Building Plan at El. 135'-3", 156'-0", & 158'-0"
- APP-4060-P2-001, "AP1000 General Arrangement Annex Building Roof Plan"
- APP-5000-P2-001, "AP1000 General Arrangement Radwaste Building Plan at El. 100'-0" and Section A-A, B-B, and C-C"
- APP-6000-P2-901, "AP1000 General Arrangement Diesel Generator Building Sections A-A, B-B, and C-C"
- APP-6030-P2-001, "AP1000 General Arrangement Diesel Generator Building Plan at El. 100'-0" & 121'-6"

51. Fire Drawings

- APP-1000-AF-901, "AP1000 Fire Area Drawing Nuclear Island Section A-A"
- APP-1000-AF-902, "AP1000 Fire Area Drawing Nuclear Island Section B-B"
- APP-1000-AF-904, "AP1000 Fire Area Drawing Nuclear Island Section G-G"
- APP-1000-AF-906, "AP1000 Fire Area Drawing Nuclear Island Section K-K"
- APP-1000-AF-907, "AP1000 Fire Area Drawing Nuclear Island Section I-I & R-R"
- APP-1020-AF-002, "AP1000 Fire Area Drawing Nuclear Island Plan at El. 96'-6"
- APP-1030-AF-001, "AP1000 Fire Area Drawing Nuclear Island Plan at El. 100'-0" & 107'-2"
- APP-1040-AF-001, "AP1000 Fire Area Drawing Nuclear Island Plan at El. 117'-6"
- APP-1050-AF-001, "AP1000 Fire Area Drawing Nuclear Island Operating Deck Plan at El. 135'-3"
- APP-1050-AF-002, "AP1000 Fire Area Drawing Nuclear Island Partial Plan at El. 153'-0"
- APP-1060-AF-001, "AP1000 Fire Area Drawing Nuclear Island Roof Plan at El. 153'-0" & 160'-6"
- APP-1070-AF-001, "AP1000 Fire Area Drawing Nuclear Island Plan at El. 160'-6" & 180'-0"
- APP-2030-AF-001, "AP1000 Turbine Building Fire Area Location Base Slab Plan at El. 100'-6"
- APP-2040-AF-001, "AP1000 Turbine Building Fire Area Location Intermediate Level Plan at El. 117'-6"

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- APP-2050-AF-001, “AP1000 Turbine Building Fire Area Location Intermediate Level Plan at El. 135’-3””
 - APP-2050-AF-002, “AP1000 Turbine Building Fire Area Location Partial Plan at El. 149’-0””
 - APP-2060-AF-001, “AP1000 Turbine Building Fire Area Location Operating Deck Plan at El. 161’-0””
 - APP-2070-AF-001, “AP1000 Turbine Building Fire Area Location Roof Plan at El. 226’-0” & 245’-0””
 - APP-4030-AF-001, “AP1000 Annex Building Fire Area Drawing Plan at El. 100’-0” & 107’-2””
 - APP-4040-AF-001, “AP1000 Annex Building Fire Area Drawing Plan at El. 107’-2”, 117’-6”, & 126’-3””
 - APP-4050-AF-001, “AP1000 Annex Building Fire Area Drawing Plan at El. 135’-3”, 156’-0”, & 158’-0””
 - APP-5000-AF-001, “AP1000 Fire Area Drawing Radwaste Building Plan at El. 100’-0””
 - APP-6030-AF-001, “AP1000 Fire Area Drawing Diesel Generator Building Plan at El. 100’-0””
52. Room Numbering Drawings
- APP-1000-AR-901, “AP1000 Nuclear Island Room Numbering Section A-A”
 - APP-1000-AR-902, “AP1000 Nuclear Island Room Numbering Section B-B”
 - APP-1000-AR-904, “AP1000 Nuclear Island Room Numbering Section G-G”
 - APP-1000-AR-906, “AP1000 Nuclear Island Room Numbering Section K-K”
 - APP-1000-AR-907, “AP1000 Nuclear Island Room Numbering Section I-I & R-R”
 - APP-1020-AR-002, “AP1000 Nuclear Island Room Numbering Plan at El. 96’-6””
 - APP-1030-AR-001, “AP1000 Nuclear Island Room Numbering Plan at El. 100’-0” & 107’-2””
 - APP-1040-AR-001, “AP1000 Nuclear Island Room Numbering Plan at El. 117’-6””
 - APP-1050-AR-001, “AP1000 Nuclear Island Room Numbering Plan at El. 135’-3””
 - APP-1050-AR-002, “AP1000 Nuclear Island Room Numbering Plan at El. 153’-0””
 - APP-1060-AR-001, “AP1000 Nuclear Island Room Numbering Plan at El. 153’-0” & 160’-6””
 - APP-1070-AR-001, “AP1000 Nuclear Island Room Numbering Plan at El. 160’-6” & 180’-0””
 - APP-2000-AR-901, “AP1000 Turbine Building Room Numbering Section A-A”
 - APP-2000-AR-902, “AP1000 Turbine Building Room Numbering Section B-B”
 - APP-2030-AR-001, “AP1000 Turbine Building Room Numbering Base Slab at El. 100’-0””
 - APP-2040-AR-001, “AP1000 Turbine Building Room Numbering Intermediate Level Plan at El. 117’-6””
 - APP-2050-AR-001, “AP1000 Turbine Building Room Numbering Intermediate Level Plan at El. 135’-3””
 - APP-2050-AR-002, “AP1000 Turbine Building Room Numbering Partial Plan at El. 149’-0””
 - APP-2060-AR-001, “AP1000 Turbine Building Room Numbering Operating Deck Plan at El. 161’-0””
 - APP-2070-AR-001, “AP1000 Turbine Building Room Numbering Roof Plan at El. 245’-0” & 226’-0””
 - APP-4000-AR-901, “AP1000 Annex Building Room Numbering Section A-A”
 - APP-4030-AR-001, “AP1000 Annex Building Room Numbering Plan at El. 100’-0” & 107’-2””
 - APP-4040-AR-001, “AP1000 Annex Building Room Numbering Plan at El. 117’-6” & 126’-3””

Document Number: APP-GW-GLN-105

Revision Number: 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- APP-4050-AR-001, “AP1000 Annex Building Room Numbering Plan at El. 135’-3”, 156’-0”, & 158’-0””
 - APP-5000-AR-001, “AP1000 Radwaste Building Room Numbering Plan at El. 100’-0” and Section A-A”
 - APP-6030-AR-001, “AP1000 Diesel Generator Building Room Numbering Plan at El. 100’-0” and Section A-A”
53. Radiological Drawings
- APP-1020-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 96’-6””
 - APP-1020-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 96’-6””
 - APP-1020-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 96’-6””
 - APP-1030-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 100’-0” & 107’-2””
 - APP-1030-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 100’-0” & 107’-2””
 - APP-1030-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 100’-0” & 107’-2””
 - APP-1040-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 117’-6””
 - APP-1040-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 117’-6””
 - APP-1040-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 117’-6””
 - APP-1050-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 135’-3””
 - APP-1050-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 135’-3””
 - APP-1050-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 135’-3””
 - APP-1060-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 153’-0” & 160’-6””
 - APP-1060-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 153’-0” & 160’-6””
 - APP-1060-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 153’-0” & 160’-6””
 - APP-1070-N5-002, “AP1000 Radiation Zones Normal Operation/Shutdown Nuclear Island Plan at El. 160’-6” & 180’-0””
 - APP-1070-N5-102, “AP1000 Radiation Zones Post Accident Nuclear Island 160’-6” & 180’-0””
 - APP-1070-N5-202, “AP1000 Radiological Access Controls Normal Operation/Shutdown Nuclear Island at El. 160’-6” & 180’-0””
 - APP-2030-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Turbine Building Plan at El. 100’-0””
 - APP-2030-N5-101, “AP1000 Radiation Zones Post Accident Turbine Building El. 100’-0””
 - APP-2030-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Turbine Building at El. 100’-0””

Document Number: APP-GW-GLN-105 **Revision Number:** 1

Title: Building and Structure Configuration, Layout, and General Arrangement Design Updates

- APP-2040-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Turbine Building Plan at El. 117’-6””
 - APP-2040-N5-101, “AP1000 Radiation Zones Post Accident Turbine Building El. 117’-6”
 - APP-2040-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Turbine Building at El. 117’-6””
 - APP-4030-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Annex Building Plan at El. 100’-0” & 107’-2”
 - APP-4030-N5-002, “AP1000 Radiation Zones Post Accident Annex Building El. 100’-0” & 107’-2””
 - APP-4030-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Annex Building at El. 100’-0” & 107’-2””
 - APP-4040-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Annex Building Plan at El. 117’-6” & 126’-3”
 - APP-4040-N5-002, “AP1000 Radiation Zones Post Accident Annex Building El. 117’-6” & 126’-3””
 - APP-4040-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Annex Building at El. 117’-6” & 126’-3””
 - APP-4050-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Annex Building Plan at El. 135’-3”, 146’-3”, 156’-0” & 158’-0””
 - APP-4050-N5-002, “AP1000 Radiation Zones Post Accident Annex Building El. 135’-3”, 146’-3”, 156’-0” & 158’-0””
 - APP-4050-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Annex Building at El. 135’-3”, 146’-3”, 156’-0” & 158’-0””
 - APP-5000-N5-001, “AP1000 Radiation Zones Normal Operation/Shutdown Radwaste Building Plan at El. 100’-0””
 - APP-5000-N5-002, “AP1000 Radiation Zones Post Accident Radwaste Building El. 100’-0””
 - APP-5000-N5-201, “AP1000 Radiological Access Controls Normal Operation/Shutdown Radwaste Building at El. 100’-0””
54. Hydrogen Igniter Drawings
- APP-1000-P3-951, “AP1000 Hydrogen Igniter Locations Section A-A”
 - APP-1040-P3-051, “AP1000 Hydrogen Igniter Locations Plan at El. 118’-6””
 - APP-1050-P3-051, “AP1000 Hydrogen Igniter Locations Plan at El. 135’-3””
 - APP-1060-P3-051, “AP1000 Hydrogen Igniter Locations Plan at El. 162’-0””