

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

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VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNITS 1 AND 2
NORTH ANNA POWER STATION UNITS 1 AND 2
CONTAINMENT IWE INSERVICE INSPECTION PLAN

Pursuant to the requirements of paragraph IWA-1400(c) of the ASME Code, Section XI, 2001 Edition through the 2003 Addenda, Virginia Electric and Power Company (Dominion) is providing herein the second ten-year inspection interval Containment IWE Inservice Inspection (ISI) Plan for North Anna and Surry Power Stations Units 1 and 2. The attached Plan does not include any relief requests; therefore, NRC approval is not required. The Plan describes the examinations to be conducted during the next ten-year inspection interval and was approved by the North Anna and Surry Station Nuclear Safety and Operating Committees. The North Anna and Surry Containment IWL ISI Plan for the second ten-year inspection interval was submitted previously. (Reference Dominion letter dated October 19, 2005, Serial No. 05-650.)

If you have any questions or require additional information, please contact Mr. Gary D. Miller at (804) 273-2771.

Very truly yours,



Gerald T. Bischof
Vice President – Nuclear Engineering

Attachment:

Virginia Electric & Power Company (Dominion), Containment IWE Inservice Inspection Plan, North Anna Power Station 1/2, Surry Power Station 1/2, Second Ten-Year Containment Inspection Interval

Commitments made in this letter: None

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ATTACHMENT

**VIRGINIA ELECTRIC & POWER COMPANY
(DOMINION)
CONTAINMENT IWE INSERVICE INSPECTION PLAN**

**NORTH ANNA POWER STATION 1/2
SURRY POWER STATION 1/2**

SECOND TEN-YEAR CONTAINMENT INSPECTION INTERVAL

**Revision 0
02-15-2007**

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1.0 PLAN DESCRIPTION

The Containment IWE Inservice Inspection Plan outlines the requirements for Inservice Inspection (ISI) of the metal components of the containment pressure boundary.

The Code of Federal Regulations, Title 10, Part 50, Section 55a, (10CFR50.55a) incorporates by reference the 2001 Edition through the 2003 Addenda of Subsection IWE of Section XI of the ASME Boiler & Pressure Vessel Code. Subsection IWE contains the requirements for ISI of Class MC (metallic containment and metallic shell and penetration liners of Class CC containment) of light-water cooled nuclear power plants.

2.0 REFERENCES

2.1 Regulatory Documents

- 2.1.1 Code of Federal Regulations; Title 10, Energy; Part 50, Domestic Licensing of Production and Utilization Facilities; Section 50.55a, Codes and Standards
- 2.1.2 Code of Federal Regulations; Title 10, Energy; Part 50, Domestic Licensing of Production and Utilization Facilities; Appendix J, Primary Containment Leakage Testing for Water-Cooled Power Reactors
- 2.1.3 Regulatory Guide 1.147, Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1
- 2.1.4 USNRC NUREG-1522, Assessment of Inservice Conditions of Safety-Related Nuclear Plant Structures
- 2.1.5 USNRC Inspection Manual, Inspection Procedure 62003, Inspection of Steel and Concrete Containment Structures at Nuclear Power Plants
- 2.1.6 USNRC IN 89-79 Supplement 1, Degraded Coatings and Corrosion of Steel Containment Vessels
- 2.1.7 USNRC IN 97-10, Liner Plate Corrosion in Concrete Containments
- 2.1.8 USNRC IN 97-11, Cement Erosion from Containment Subfoundations at Nuclear Power Plants
- 2.1.9 USNRC IN 97-13, Deficient Conditions Associated with Protective Coatings at Nuclear Power Plants
- 2.1.10 USNRC IN 97-29, Containment Inspection Rule

2.2 Codes and Standards

2.2.1 ASME Boiler and Pressure Vessel Code, Section XI, Subsections IWE
2001 Edition through 2003 Addenda

2.3 Dominion Documents

2.3.1 Dominion Inservice Inspection Manual

2.3.2 VPAP-0307, Repair and Replacement

2.3.3 VPAP-1103, Visual Examination

2.3.4 VPAP-0904, Control of Protective Coatings

2.3.5 TRCP-0014, Visual Testing Training Program Written Practice

2.3.6 North Anna Power Station, Units 1&2, Technical Specifications

2.3.7 Surry Power Station, Units 1&2, Technical Specifications

2.3.8 North Anna Power Station, Units 1&2, Updated Final Safety Analysis
Report

2.3.9 Surry Power Station, Units 1&2, Updated Final Safety Analysis Report

2.3.10 North Anna Stone and Webster Specification NAS-41

2.3.11 North Anna Stone and Webster Specification NAS-31

2.3.12 Surry Stone and Webster Specification NUS-35

2.3.13 Surry Stone and Webster Specification NUS-46

2.3.14 Surry Stone and Webster Specification NUS-56

3.0 DEFINITIONS

3.1 **Primary Containment:** Those parts of the containment structure that serve as a leak-tight barrier and serve to prevent the uncontrolled release of radioactivity to the environment under normal or postulated accident conditions.

- 3.2 **Primary Containment IWE Components:** Metallic parts (i.e., metallic liner, metallic penetration liners, bolting) which have been classified as ASME Code Class CC for the purpose of performing Section XI ISI.
- 3.3 **Accessible Areas:** Those areas of the containment pressure retaining surface, including integral attachments, which can be examined directly or remotely.
- 3.4 **Inaccessible Areas:** Surface areas may be considered inaccessible if visual access by line of sight with adequate lighting from permanent vantage points is obstructed by permanent plant structures, equipment, or components, provided these surface areas do not require examination in accordance with the inspection plan (specific location) or IWE-1240.
- 3.5 **Integral Attachment:** Attachments to the pressure retaining surface of containment that serve a pressure retaining function, or are a structural attachment.
- 3.6 **Structural Attachment:** Attachments that are welded, cast or forged integrally to the pressure retaining surface of containment, and perform a pressure retaining function or are in the containment vessel support load path.
- 3.7 **Non-structural Attachment:** (Includes minor permanent and temporary attachments) Attachments to the pressure retaining surface of containment that do not perform a pressure retaining function nor are in the containment vessel support load path. Examples include leak chase channels, insulation supports, cable tray supports, nameplates, locating and lifting lugs, lighting supports and walkway supports.

4.0 PRIMARY CONTAINMENT DESIGN

The containment is a cylindrical, carbon steel lined, reinforced concrete structure with a hemispherical dome including foundations, access openings and penetrations which function to contain the mechanical systems, components and major piping which comprise the reactor coolant boundary. The containment is designed to operate at subatmospheric pressure. (Ref. UFSAR Chap. 5 for Surry, Chap. 6 for North Anna)

The containment was designed and constructed prior to the implementation of ASME Code, Section III with regard to containment (NE or Division 2) in accordance with requirements found in referenced specifications, drawings, and codes in force at the time of construction. The descriptions for Class CC given in Paragraph 5.5 were established and reviewed by Dominion based on containment function and scope found in the UFSAR, currently applicable ASME Code sections and the original design/construction specifications and drawings.

5.0 CONTAINMENT IWE INSERVICE INSPECTION

5.1 Contents of Containment IWE Inservice Inspection Plan

The Containment IWE Inservice Inspection Plan addresses the requirements for the inservice inspection of primary containment components to satisfy the mandatory regulations of 10CFR50.55a. Where other regulatory requirements or specific North Anna/Surry commitments impose additional examinations or NDE techniques exceeding Code requirements, these augmented requirements will be addressed in the Containment ISI Implementation Schedule specific to each unit.

The intent of this document is to provide information regarding the scope of the Containment ISI Plan, and to provide references to other documents and programs that form a part of the Containment ISI Plan, or provide supporting information, and identify applicable exemptions and relief requests.

5.2 ASME Section XI Edition and Addenda Implemented

The current regulatory requirement mandated by 10CFR50.55a requires licensees to implement a containment inspection program in accordance with the rules and requirements of the 2001 Edition through the 2003 Addenda of ASME Section XI, Subsections IWE amended in the regulation. Dominion will implement this Containment IWE ISI Plan in accordance with the rules and requirements of the 2001 Edition through the 2003 Addenda of ASME Section XI, Subsections IWE as amended in the regulation.

5.3 Containment IWE ISI First Interval

In accordance with the regulatory requirements of 10CFR50.55a, the examinations performed during the first period of the first inspection interval served the same purpose for operating plants as the preservice examination specified for plants not yet in operation. The North Anna and Surry containments were not designed to accommodate inspections. There were no regulatory requirements to implement Subsection IWE of ASME Section XI prior to North Anna and Surry commencing operations. The CFR allowed up to five years for the implementation of the first period inspections. In consideration of these rules, the Initial Period (First Period) for the performance of Containment ISI began on September 9, 1996, and ended at the completion of the last required first period examination for each unit. As these dates differed for each unit, the second period and third period dates varied for each unit. The subsequent periods complied with the normal period requirements of four years for the second period and three years for the third period of inspection program B of ASME Section XI.

5.4 Containment IWE ISI Second Interval

North Anna Unit 1 - 10/07/2007 to 03/14/2017
North Anna Unit 2 - 10/12/2008 to 03/19/2018
Surry Unit 1 - 11/22/2007 to 04/25/2017
Surry Unit 2 - 05/22/2008 to 10/19/2017

5.5 ISI Primary Containment Boundaries and Classification

5.5.1 ASME Class 1, 2, 3

ASME Class 1, 2 and 3 piping penetrating the containment vessel is attached to the containment vessel directly by welding, or via flued heads and sleeves. The process pipe to liner weld, the flued head to the sleeve weld and the process pipe weld to sleeve or flued head is considered part of the containment vessel (IWE, Class CC).

5.5.2 ASME Class CC

The entire metal shell/liner of the containment structure and connecting penetrations, appurtenances, and parts, which form the containment leak tight boundary. This class shall be inspected per the requirements of ASME Subsection IWE Table IWE-2500-1 as modified by 10CFR50.55a, Code Cases, and Relief Requests approved by the NRC as documented in this plan.

5.6 Containment IWE ISI Schedule

5.6.1 Examination Schedule - IWE Scope

ASME Section XI, Subarticle IWE-2400, allows the owner to choose between two implementation schedules. These are identified as Inspection Program A and Inspection Program B. North Anna and Surry will implement Inspection Program B to be consistent with the existing ISI Program for Class 1, 2 and 3 components and supports. Program B consists of a Ten-Year Inspection Interval subdivided into three inspection periods. Table IWE-2412-1 identifies the duration of each inspection period, the minimum percentage of exams required, and the maximum percentage of examinations that can be credited within each period as follows:

Inspection Interval (10 Years)	Inspection Period (Calendar Years of Plant Service Within the Interval)	Minimum Examinations Required (%)	Maximum Examinations Credited (%)
2	3	16	50
	7	50	75
	10	100	100

5.7 Containment IWE Components Exempt From Examination

5.7.1 Per Subarticle IWE-1220 the following components (or parts of components) are exempted from the examination requirements of IWE-2000:

- (a) Vessels, parts and appurtenances outside the boundaries of the containment as defined in the Design Specification.
- (b) Embedded or inaccessible portions of containment vessels, parts and appurtenances that met the requirements of the original Construction Code.
- (c) Portions of containment vessels, parts and appurtenances that become embedded or inaccessible as a result of vessel repair/replacement activities if the requirements of Subarticles IWE-1232(a) and (b) and IWE-5220 are met.
- (d) Piping, pumps and valves that are part of the containment system, or which penetrate or are attached to the containment vessel. These components shall be examined in accordance with the requirements of Subsections IWB or IWC, as applicable.

5.7.2 Specific exemptions and identification of inaccessible areas will be detailed in the Containment ISI Implementation Schedule for North Anna and Surry. The definition of “inaccessible” is given in Section 3.0.

5.8 Containment IWE ISI Implementation Schedule

Containment IWE ISI Implementation Schedules have been developed for North Anna and Surry in accordance with the Dominion Inservice Inspection Manual. These Implementation Schedules identify the components to be examined during the ISI interval and each period in accordance with the schedule requirements of Subsection IWE.

The Implementation Schedule will include detailed information as to the implementation of examinations in order to satisfy the mandated containment inspection rules. This will include itemization of components by category and item number, examination methods, Relief Requests, reference to drawings, and identification of components (or portions of components) that are inaccessible.

5.9 Repair and Replacement of Primary Containment Components

Repair/Replacement and Modification activities for items within the scope of IWE are to be performed in accordance with the ASME Section XI Repair/Replacement program.

5.10 Acceptance Standards

Acceptance of components for continued service shall be subject to the rules of Article IWE-3000. If examination results require evaluation, the evaluation shall be performed in accordance with Article IWE-3000 and the regulatory amendments per 10CFR50.55a.

5.10.1 Evaluation of Items Within the Scope of IWE (10 CFR 50.55a(b)(ix)(A))

5.10.1.1 When degradation is identified, which exceeds acceptance standards, Dominion will evaluate the acceptability of inaccessible areas when conditions exist in accessible areas that could indicate the presence of or result in degradation to such inaccessible area identified. For each inaccessible area identified the following information shall be reported with the Summary Report:

- (a) A description of the type and estimated extent of degradation, and the conditions that led to the degradation.
- (b) An evaluation of each area, and the result of the evaluation, and
- (c) A description of the necessary corrective actions.

The reports required by this Plan shall be submitted within 90 days of the completion of the refueling outage in which the condition was identified. The end of the refueling outage is defined as when the unit is placed on-line.

5.11 Containment IWE ISI Drawings

Containment IWE ISI drawings show the containment in developed elevations. These drawings (IWE Series) are utilized to identify and locate the areas requiring examination. A list of the IWE Series drawings is included in Attachment 1.

Existing controlled plant design and component drawings will be used as required to identify and perform examinations on items such as bolting. These drawings provide details of individual components such as hatches and penetrations, which are not shown on the Containment ISI drawings.

5.12 Containment IWE ISI Implementation Procedures

The Dominion procedures required for implementation of containment inservice inspections, referenced in Paragraph 2.3, are considered part of this Containment IWE ISI Plan. 10 CFR 50.55a(b)(ix)(B) states when performing remotely the visual exams required by Subsection IWE, the maximum direct examination distance in Table-2210-1 may be extended and the minimum illumination requirements specified in Table IWA-2210-1 may be decreased provided that the conditions or indications for which the visual examination is performed can be detected at the chosen distance and illumination.

5.13 ASME Section XI Key Personnel Requirements

5.13.1 Responsible Individual

IWE-2320 requires a Responsible Individual, knowledgeable in the requirements for design, inservice inspection, and testing of Class MC and metallic liners of Class CC components. Dominion's Responsible Individual shall be one of the following:

- a) The visual (VT-1, VT-2, VT-3) Principal Level III, or
- b) As designated by Dominion.

5.13.2 The Responsible Individual shall be responsible for the following:

- (a) development of plans and procedures for examination of containment surfaces;
- (b) instruction, training, and approval of visual examination personnel;
- (c) performance or direction of general and detailed visual examinations;
- (d) evaluation of examination results; and
- (e) submittal of report to Dominion documenting results of examinations.

5.13.3 VT-1 and VT-3 Examiners (10 CFR 50.55a(b)(ix)(F))

VT-1 and VT-3 examinations shall be conducted in accordance with IWA-2200 of ASME Section XI. Personnel conducting examinations in accordance with the VT-1 or VT-3 examination method shall be qualified in accordance with IWA-2300 of ASME Section XI and not to an "owner defined" program discussed in IWE-2330(a) of ASME Section XI.

5.13.4 General and Detailed Examiners

- (a) Personnel performing General Examinations shall be qualified to visual, VT-3, level 2 or higher in accordance with IWA-2300.
- (b) Personnel performing Detailed Examinations shall be qualified to visual, VT-1, level 2 or higher in accordance with IWA-2300. The only exception will be Detailed Examinations required by IWE-5240 associated with the pressure tests of IWE-5220 following repair/replacement activities. Personnel performing Detailed Examinations required by IWE-5240 shall be qualified to visual, VT-2, level 2 or higher in accordance with IWA-2300.

6.0 CONTAINMENT IWE EXAMINATION SCOPE

The following tables outline the scope of the examinations required to comply with regulatory requirements for the inspection of containments. These tables represent the requirements prescribed in Subsection IWE and where applicable, the regulatory amendments to the Code have been identified. Code Cases and Relief Requests are also referenced, including their status, for the affected containment items. These tables are intended to mirror the IWX-2500-1 Tables found in Section XI, except that they have been modified to specifically apply to Dominion. However, these tables are not a substitute for the Code tables. The Code tables must be consulted as they contain detailed information required for performance of examinations, which are not included here. As an example, the acceptance criteria identified for each Code item number in the Code tables is not identified in this document. However, the acceptance criteria would be followed except where specific written relief has been granted.

TABLE 1
IWE EXAMINATIONS

EXAMINATION CATEGORY E-A, CONTAINMENT SURFACES						
Item No.	Part	Examination Method	Extent & Frequency of Examination	Code Case	Relief Request	Remarks
E1.10	Containment Vessel Pressure Retaining Boundary ¹					
E1.11	Accessible Surface Areas	General Visual / Visual, VT-3 and VT-1 (bolting)	100% Each Period			10 CFR 50.55a(b)(ix)(H) requires that containment bolted connections that are disassembled during the performance of the examinations of this item be examined using the VT-3 examination method. Flaws or degradation identified during the performance of a VT-3 examination must be examined in accordance with the VT-1 examination method. The criteria in the material specification or IWB-3517.1 must be used to evaluate containment bolting flaws or degradation. As an alternative to performing VT-3 examinations of containment bolted connections that are disassembled during the scheduled performance of Item E1.11, VT-3 examinations of containment bolted connections may be conducted whenever containment bolted connections are disassembled for any reason.

E1.12	Wetted Surfaces of Submerged Areas	Visual, VT-3	100% Each Interval			10 CFR 50.55a(b)(ix)(G) requires VT-3 examination method.
E1.20	BWR Vent System ² Accessible Surface Areas	N/A	N/A	N/A	N/A	North Anna and Surry are PWRs, this item is not applicable.
E1.30	Moisture Barriers ³	N/A	N/A	N/A	N/A	North Anna and Surry do not have moisture barriers.

Notes (1): Examination shall include all accessible interior and exterior surfaces of Class MC components, parts, and appurtenances, and metallic shell and penetration liners of Class CC components. The following items shall be considered for examination:

- (a) integral attachments and structures that are part of the reinforcing structure, such as stiffening rings, manhole frames, and reinforcement around openings.
- (b) surfaces of attachment welds between structural attachments and the pressure retaining boundary or reinforcing structure, such as stiffening rings, manhole frames, and reinforcement around openings.
- (c) surfaces of containment structural and pressure boundary welds, including longitudinal welds (Category A), circumferential welds (Category B), flange welds (Category C), and nozzle-to-shell welds (Category D) as defined in NE-3351 for Class MC and CC-3840 for Class CC; and surfaces of Flued Head and Bellows Seal Circumferential Welds joined to the Penetration.
- (d) pressure-retaining bolted connections, including bolts, studs, nuts bushings, washers, and threads in base material and flange ligaments between fastener holes. Bolted connections need not be disassembled for performance of examinations, and bolting may remain in place under tension.

(2) Not applicable
(3) Not applicable

EXAMINATION CATEGORY E-C, CONTAINMENT SURFACES REQUIRING AUGMENTED EXAMINATION						
Item No.	Part	Examination Method	Extent & Frequency of Examination	Code Case	Relief Request	Remarks
E4.10	Containment Surface Areas ¹					
E4.11	Visible Surfaces	Visual, VT-1	100% of Identified Areas Each Period			10 CFR 50.55a(b)(ix)(G) requires VT-1 examination method.
E4.12	Surface Area Grid Minimum Wall Thickness Location	Volumetric	100% of Identified Areas Each Period			IWE-2500(b)(1), (2), (3), (4) describe the minimum requirements for the examination. 10 CFR 50.55a(b)(ix)(I) requires the ultrasonic examination acceptance standard specified in IWE-3511.3 for Class MC pressure-retaining components must also be applied to metallic liners of Class CC pressure-retaining components.
<p>Note (1): Containment surface areas requiring augmented examination are those identified in IWE-1240. Currently only North Anna Unit 2 has identified areas for augmented inspection associated with repairs performed during 1999 refueling.</p>						

7.0 CODE CASES

Any Code Case to be utilized in this Plan will require submittal and approval as a Relief Request or be generically approved through Regulatory Guide 1.147 and added to this Plan. At this time, no Code Cases have been specifically adopted for the IWE programs.

8.0 RELIEF REQUESTS

None

9.0 INSPECTION PLAN SUMMARIES

9.1 North Anna Power Station Unit 1

**NORTH ANNA POWER STATION UNIT 1
IWE Plan
Per Category, Item No., and Period/Interval**

Category E-A, Containment Surfaces

Item No.	Period	Locations to be examined ^{1,2}	Planned completion percentage	Actual completion percentage
E1.11	1	Note (3)	100%	-
E1.11	2	Note (3)	100%	-
E1.11	3	Note (3)	100%	-
E1.12	3	Note (3)	100%	-

No other categories or item numbers are applicable to the unit.

- 1) The total locations to be examined are a combination of component mark numbers and unique drawings for individual components. For example the containment liner has one mark number but many drawings indicating areas to be examined. Each of the unique location drawings is listed in the ISI Implementation Schedule for the liner component mark number.
- 2) Only drawings that indicate location of a component are listed in the ISI Implementation Schedule. "Typical," general note and location schedule drawings, which are part of the IWE/IWL drawing series, are not listed. These drawings may be used by an examiner as an inspection aid only, and can be identified from the location drawing found in the ISI Implementation Schedule or by using the drawing series itself.
- 3) Total number of locations to be examined will be added upon completion of the Containment ISI Implementation Schedule.

9.2 North Anna Power Station Unit 2

**NORTH ANNA POWER STATION UNIT 2
IWE Plan
Per Category, Item No., and Period/Interval**

Category E-A, Containment Surfaces

Item No.	Period	Locations to be examined ^{1,2}	Planned completion percentage	Actual completion percentage
E1.11	1	Note (4)	100%	-
E1.11	2	Note (4)	100%	-
E1.11	3	Note (4)	100%	-
E1.12	3	Note (4)	100%	-

Category E-C, Containment Surfaces requiring Augmented Examination

Item No.	Period	locations to be examined ^{1,2}	Planned completion percentage ³	Actual completion percentage
E4.11	1	Note (4)	100%	-
E4.11	2	Note (4)	100%	-
E4.11	3	Note (4)	100%	-
E4.12	1	Note (4)	100%	-
E4.12	2	Note (4)	100%	-
E4.12	3	Note (4)	100%	-

No other categories or item numbers are applicable to the unit.

- 1) The total locations to be examined are a combination of component mark numbers and unique drawings for individual components. For example the containment liner has one mark number but many drawings indicating areas to be examined. Each of the unique location drawings is listed in the ISI Implementation Schedule for the liner component mark number.
- 2) Only drawings that indicate location of a component are listed in the ISI Implementation Schedule. "Typical," general note and location schedule drawings, which are part of the IWE/IWL drawing series, are not listed. These drawings may be used by an examiner as an inspection aid only, and can be identified from the location drawing found in the ISI Implementation Schedule or by using the drawing series itself.
- 3) The extent of examination shall be 100% for each inspection period until the areas examined remain essentially unchanged for the next inspection period. Such areas no longer require augmented examination.
- 4) Total number of locations to be examined will be added upon completion of the Containment ISI Implementation Schedule.

9.3 Surry Power Station Unit 1

**SURRY POWER STATION UNIT 1
IWE Plan
Per Category, Item No., and Period/Interval**

Category E-A, Containment Surfaces

Item No.	Period	Locations to be examined ^{1,2}	Planned completion percentage	Actual completion percentage
E1.11	1	Note (3)	100%	-
E1.11	2	Note (3)	100%	-
E1.11	3	Note (3)	100%	-
E1.12	3	Note (3)	100%	-

No other categories or item numbers are applicable to the unit.

- 1) The total locations to be examined are a combination of component mark numbers and unique drawings for individual components. For example the containment liner has one mark number but many drawings indicating areas to be examined. Each of the unique location drawings is listed in the ISI Implementation Schedule for the liner component mark number.
- 2) Only drawings that indicate location of a component are listed in the ISI Implementation Schedule. "Typical," general note and location schedule drawings, which are part of the IWE/IWL drawing series, are not listed. These drawings may be used by an examiner as an inspection aid only, and can be identified from the location drawing found in the ISI Implementation Schedule or by using the drawing series itself.
- 3) Total number of locations to be examined will be added upon completion of the Containment ISI Implementation Schedule.

9.4 Surry Power Station Unit 2

SURRY POWER STATION UNIT 2
IWE Plan
Per Category, Item No., and Period/Interval

Category E-A, Containment Surfaces

Item No.	Period	Locations to be examined ^{1,2}	Planned completion percentage	Actual completion percentage
E1.11	1	Note (3)	100%	-
E1.11	2	Note (3)	100%	-
E1.11	3	Note (3)	100%	-
E1.12	3	Note (3)	100%	-

No other categories or item numbers are applicable to the unit.

- 1) The total locations to be examined are a combination of component mark numbers and unique drawings for individual components. For example the containment liner has one mark number but many drawings indicating areas to be examined. Each of the unique location drawings is listed in the ISI Implementation Schedule for the liner component mark number.
- 2) Only drawings that indicate location of a component are listed in the ISI Implementation Schedule. "Typical," general note and location schedule drawings, which are part of the IWE/IWL drawing series, are not listed. These drawings may be used by an examiner as an inspection aid only, and can be identified from the location drawing found in the ISI Implementation Schedule or by using the drawing series itself.
- 3) Total number of locations to be examined will be added upon completion of the Containment ISI Implementation Schedule.

Attachment 1

IWE Drawings by Station/Unit

North Anna Unit 1 IWE Drawings

11715-IWE-01	GENERAL NOTES, REFERENCES AND LINER SCHEDULES
11715-IWE-02	TYPICAL CONTAINMENT CROSS SECTION
11715-IWE-03A	IWE INSPECTION FIGURE DETAILS - SH 1
11715-IWE-03B	IWE INSPECTION FIGURE DETAILS - SH 2
11715-IWE-03C	IWE INSPECTION FIGURE DETAILS - SH 3
11715-IWE-03D	IWE INSPECTION FIGURE DETAILS - SH 4
11715-IWE-03E	IWE INSPECTION FIGURE DETAILS - SH 5
11715-IWE-03F	IWE INSPECTION FIGURE DETAILS - SH 6
11715-IWE-03G	IWE INSPECTION FIGURE DETAILS - SH 7
11715-IWE-03H	IWE INSPECTION FIGURE DETAILS - SH 8
11715-IWE-D001	DOMES LINER SEGMENT LOCATION SCHEDULE
11715-IWE-D01-A	LINER SEGMENT - DOME BETWEEN AZ. 0° & 90°
11715-IWE-D01-B	LINER SEGMENT - DOME BETWEEN AZ. 90° & 180°
11715-IWE-D01-C	LINER SEGMENT - DOME BETWEEN AZ. 180° & 270°
11715-IWE-D01-D	LINER SEGMENT - DOME BETWEEN AZ. 270° & 0°
11715-IWE-M001	MAT LINER SEGMENT LOCATION SCHEDULE
11715-IWE-M01-A	LINER SEGMENT - BASE MAT BETWEEN AZ. 0° & 90°
11715-IWE-M01-B	LINER SEGMENT - BASE MAT BETWEEN AZ. 90° & 180°
11715-IWE-M01-C	LINER SEGMENT - BASE MAT BETWEEN AZ. 180° & 270°
11715-IWE-M01-D	LINER SEGMENT - BASE MAT BETWEEN AZ. 270° & 0°
11715-IWE-W001	WALL LINER SEGMENT LOCATION SCHEDULE
11715-IWE-W01-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 216'-11"
11715-IWE-W01-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 216'-11"
11715-IWE-W01-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 216'-11"
11715-IWE-W01-D	LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. 216'-11"
11715-IWE-W01-E	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. 216'-11"
11715-IWE-W01-F	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 216'-11"
11715-IWE-W01-G	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 216'-11"
11715-IWE-W01-H	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 216'-11"
11715-IWE-W01-I	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. 216'-11"
11715-IWE-W02-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 241'-0"
11715-IWE-W02-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 241'-0"
11715-IWE-W02-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 241'-0"
11715-IWE-W02-D	LINER SEGMENT - BETWEEN COL. 7 & 8 AT ELEV. 241'-0"
11715-IWE-W02-E	LINER SEGMENT - BETWEEN COL. 8 & 9 AT ELEV. 241'-0"
11715-IWE-W02-F	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. 241'-0"
11715-IWE-W02-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 241'-0"
11715-IWE-W02-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 241'-0"
11715-IWE-W02-I	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 241'-0"
11715-IWE-W02-J	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. 241'-0"
11715-IWE-W03-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 262'-10"
11715-IWE-W03-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 262'-10"

North Anna Unit 1 IWE Drawings (Continued)

11715-IWE-W03-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 262'-10"
11715-IWE-W03-D	LINER SEGMENT - BETWEEN COL. 7 & 8 AT ELEV. 262'-10"
11715-IWE-W03-E	LINER SEGMENT - BETWEEN COL. 8 & 9 AT ELEV. 262'-10"
11715-IWE-W03-F	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. 262'-10"
11715-IWE-W03-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 262'-10"
11715-IWE-W03-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 262'-10"
11715-IWE-W03-I	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 262'-10"
11715-IWE-W03-J	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. 262'-10"
11715-IWE-W04-A	LINER SEGMENT - BETWEEN AZ. 0° & 90° AT ELEV. 291'-10"
11715-IWE-W04-B	LINER SEGMENT - BETWEEN AZ. 90° & 180° AT ELEV. 291'-10"
11715-IWE-W04-C	LINER SEGMENT - BETWEEN AZ. 180° & 270° AT ELEV. 291'-10"
11715-IWE-W04-D	LINER SEGMENT - BETWEEN AZ. 270° & 0° AT ELEV. 291'-10"

North Anna Unit 2 IWE Drawings

12050-IWE-01	GENERAL NOTES, REFERENCES AND LINER SCHEDULES
12050-IWE-02	TYPICAL CONTAINMENT CROSS SECTION
12050-IWE-03A	IWE INSPECTION FIGURE DETAILS - SH 1
12050-IWE-03B	IWE INSPECTION FIGURE DETAILS - SH 2
12050-IWE-03C	IWE INSPECTION FIGURE DETAILS - SH 3
12050-IWE-03D	IWE INSPECTION FIGURE DETAILS - SH 4
12050-IWE-03E	IWE INSPECTION FIGURE DETAILS - SH 5
12050-IWE-03F	IWE INSPECTION FIGURE DETAILS - SH 6
12050-IWE-03G	IWE INSPECTION FIGURE DETAILS - SH 7
12050-IWE-03H	IWE INSPECTION FIGURE DETAILS - SH 8
12050-IWE-D001	DOMES LINER SEGMENT LOCATION SCHEDULE
12050-IWE-D01-A	LINER SEGMENT - DOME BETWEEN AZ. 0° & 90°
12050-IWE-D01-B	LINER SEGMENT - DOME BETWEEN AZ. 90° & 180°
12050-IWE-D01-C	LINER SEGMENT - DOME BETWEEN AZ. 180° & 270°
12050-IWE-D01-D	LINER SEGMENT - DOME BETWEEN AZ. 270° & 0°
12050-IWE-M001	MAT LINER SEGMENT LOCATION SCHEDULE
12050-IWE-M01-A	LINER SEGMENT - BASE MAT BETWEEN AZ. 0° & 90°
12050-IWE-M01-B	LINER SEGMENT - BASE MAT BETWEEN AZ. 90° & 180°
12050-IWE-M01-C	LINER SEGMENT - BASE MAT BETWEEN AZ. 180° & 270°
12050-IWE-M01-D	LINER SEGMENT - BASE MAT BETWEEN AZ. 270° & 0°
12050-IWE-W001	WALL LINER SEGMENT LOCATION SCHEDULE
12050-IWE-W01-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 216'-11"
12050-IWE-W01-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 216'-11"
12050-IWE-W01-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 216'-11"
12050-IWE-W01-D	LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. 216'-11"
12050-IWE-W01-E	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. 216'-11"
12050-IWE-W01-F	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 216'-11"
12050-IWE-W01-G	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 216'-11"
12050-IWE-W01-H	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 216'-11"
12050-IWE-W01-I	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. 216'-11"
12050-IWE-W02-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 241'-0"

North Anna Unit 2 IWE Drawings (Continued)

12050-IWE-W02-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 241'-0"
12050-IWE-W02-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 241'-0"
12050-IWE-W02-D	LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. 241'-0"
12050-IWE-W02-E	LINER SEGMENT - BETWEEN COL. 9 & 10 AT ELEV. 241'-0"
12050-IWE-W02-F	LINER SEGMENT - BETWEEN COL. 10 & 11 AT ELEV. 241'-0"
12050-IWE-W02-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 241'-0"
12050-IWE-W02-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 241'-0"
12050-IWE-W02-I	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 241'-0"
12050-IWE-W03-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 262'-10"
12050-IWE-W03-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 262'-10"
12050-IWE-W03-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 262'-10"
12050-IWE-W03-D	LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. 262'-10"
12050-IWE-W03-E	LINER SEGMENT - BETWEEN COL. 9 & 10 AT ELEV. 259'-6"
12050-IWE-W03-F	LINER SEGMENT - BETWEEN COL. 10 & 11 AT ELEV. 259'-6"
12050-IWE-W03-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 259' 6" & 262'-10"
12050-IWE-W03-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 262'-10"
12050-IWE-W03-I	LINER SEGMENT - BETWEEN COL. 15 & 1 AT ELEV. 262'-10"
12050-IWE-W04-A	LINER SEGMENT - BETWEEN AZ. 0° & 90° AT ELEV. 291'-10"
12050-IWE-W04-B	LINER SEGMENT - BETWEEN AZ. 90° & 180° AT ELEV. 291'-10"
12050-IWE-W04-C	LINER SEGMENT - BETWEEN AZ. 180° & 270° AT ELEV. 291'-10"
12050-IWE-W04-D	LINER SEGMENT - BETWEEN AZ. 270° & 0° AT ELEV. 291'-10"

Surry Unit 1 IWE Drawings

11448-IWE-01	GENERAL NOTES, REFERENCES AND LINER SCHEDULES
11448-IWE-02	TYPICAL CONTAINMENT CROSS SECTION
11448-IWE-03A	IWE INSPECTION FIGURE DETAILS - SH 1
11448-IWE-03B	IWE INSPECTION FIGURE DETAILS - SH 2
11448-IWE-03C	IWE INSPECTION FIGURE DETAILS - SH 3
11448-IWE-03D	IWE INSPECTION FIGURE DETAILS - SH 4
11448-IWE-03E	IWE INSPECTION FIGURE DETAILS - SH 5
11448-IWE-03F	IWE INSPECTION FIGURE DETAILS - SH 6
11448-IWE-03G	IWE INSPECTION FIGURE DETAILS - SH 7
11448-IWE-03H	IWE INSPECTION FIGURE DETAILS - SH 8
11448-IWE-D001	DOMES LINER SEGMENT LOCATION SCHEDULE
11448-IWE-D01-A	LINER SEGMENT - DOME BETWEEN AZ. 0° & 90°
11448-IWE-D01-B	LINER SEGMENT - DOME BETWEEN AZ. 90° & 180°
11448-IWE-D01-C	LINER SEGMENT - DOME BETWEEN AZ. 180° & 270°
11448-IWE-D01-D	LINER SEGMENT - DOME BETWEEN AZ. 270° & 0°
11448-IWE-M001	MAT LINER SEGMENT LOCATION SCHEDULE
11448-IWE-M01-A	LINER SEGMENT - BASE MAT BETWEEN AZ. 0° & 90°
11448-IWE-M01-B	LINER SEGMENT - BASE MAT BETWEEN AZ. 90° & 180°
11448-IWE-M01-C	LINER SEGMENT - BASE MAT BETWEEN AZ. 180° & 270°
11448-IWE-M01-D	LINER SEGMENT - BASE MAT BETWEEN AZ. 270° & 0°
11448-IWE-W001	WALL LINER SEGMENT LOCATION SCHEDULE
11448-IWE-W01-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. -27'-7"

Surry Unit 1 IWE Drawings (Continued)

11448-IWE-W01-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. -27'-7"
11448-IWE-W01-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. -27'-7"
11448-IWE-W01-D	LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. -27'-7"
11448-IWE-W01-E	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. -27'-7"
11448-IWE-W01-F	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. -27'-7"
11448-IWE-W01-G	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. -27'-7"
11448-IWE-W01-H	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. -27'-7"
11448-IWE-W01-I	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. -27'-7"
11448-IWE-W02-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. -3'-6"
11448-IWE-W02-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. -3'-6"
11448-IWE-W02-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. -3'-6"
11448-IWE-W02-D	LINER SEGMENT - BETWEEN COL. 7 & 8 AT ELEV. -3'-6"
11448-IWE-W02-E	LINER SEGMENT - BETWEEN COL. 8 & 9 AT ELEV. -3'-6"
11448-IWE-W02-F	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. -3'-6"
11448-IWE-W02-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. -3'-6"
11448-IWE-W02-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. -3'-6"
11448-IWE-W02-I	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. -3'-6"
11448-IWE-W02-J	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. -3'-6"
11448-IWE-W03-A	LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 18'-4"
11448-IWE-W03-B	LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 18'-4"
11448-IWE-W03-C	LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 18'-4"
11448-IWE-W03-D	LINER SEGMENT - BETWEEN COL. 7 & 8 AT ELEV. 18'-4"
11448-IWE-W03-E	LINER SEGMENT - BETWEEN COL. 8 & 9 AT ELEV. 18'-4"
11448-IWE-W03-F	LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. 18'-4"
11448-IWE-W03-G	LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 18'-4"
11448-IWE-W03-H	LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 18'-4"
11448-IWE-W03-I	LINER SEGMENT - BETWEEN COL. 15 & 17 AT ELEV. 18'-4"
11448-IWE-W03-J	LINER SEGMENT - BETWEEN COL. 17 & 1 AT ELEV. 18'-4"
11448-IWE-W04-A	LINER SEGMENT - BETWEEN AZ. 0° & 90° AT ELEV. 47'-4"
11448-IWE-W04-B	LINER SEGMENT - BETWEEN AZ. 90° & 180° AT ELEV. 47'-4"
11448-IWE-W04-C	LINER SEGMENT - BETWEEN AZ. 180° & 270° AT ELEV. 47'-4"
11448-IWE-W04-D	LINER SEGMENT - BETWEEN AZ. 270° & 0° AT ELEV. 47'-4"

Surry Unit 2 IWE Drawings

11548-IWE-01	GENERAL NOTES, REFERENCES AND LINER SCHEDULES
11548-IWE-02	TYPICAL CONTAINMENT CROSS SECTION
11548-IWE-03A	IWE INSPECTION FIGURE DETAILS - SH 1
11548-IWE-03B	IWE INSPECTION FIGURE DETAILS - SH 2
11548-IWE-03C	IWE INSPECTION FIGURE DETAILS - SH 3
11548-IWE-03D	IWE INSPECTION FIGURE DETAILS - SH 4
11548-IWE-03E	IWE INSPECTION FIGURE DETAILS - SH 5
11548-IWE-03F	IWE INSPECTION FIGURE DETAILS - SH 6
11548-IWE-03G	IWE INSPECTION FIGURE DETAILS - SH 7
11548-IWE-03H	IWE INSPECTION FIGURE DETAILS - SH 8
11548-IWE-D001	DOMES LINER SEGMENT LOCATION SCHEDULE

Surry Unit 2 IWE Drawings (Continued)

11548-IWE-D01-A LINER SEGMENT - DOME BETWEEN AZ. 0° & 90°
11548-IWE-D01-B LINER SEGMENT - DOME BETWEEN AZ. 90° & 180°
11548-IWE-D01-C LINER SEGMENT - DOME BETWEEN AZ. 180° & 270°
11548-IWE-D01-D LINER SEGMENT - DOME BETWEEN AZ. 270° & 0°
11548-IWE-M001 MAT LINER SEGMENT LOCATION SCHEDULE
11548-IWE-M01-A LINER SEGMENT - BASE MAT BETWEEN AZ. 0° & 90°
11548-IWE-M01-B LINER SEGMENT - BASE MAT BETWEEN AZ. 90° & 180°
11548-IWE-M01-C LINER SEGMENT - BASE MAT BETWEEN AZ. 180° & 270°
11548-IWE-M01-D LINER SEGMENT - BASE MAT BETWEEN AZ. 270° & 0°
11548-IWE-W001 WALL LINER SEGMENT LOCATION SCHEDULE
11548-IWE-W01-A LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. -27'-7"
11548-IWE-W01-B LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. -27'-7"
11548-IWE-W01-C LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. -27'-7"
11548-IWE-W01-D LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. -27'-7"
11548-IWE-W01-E LINER SEGMENT - BETWEEN COL. 9 & 11 AT ELEV. -27'-7"
11548-IWE-W01-F LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. -27'-7"
11548-IWE-W01-G LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. -27'-7"
11548-IWE-W01-H LINER SEGMENT - BETWEEN COL. 15 & 1 AT ELEV. -27'-7"
11548-IWE-W02-A LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. -3'-6"
11548-IWE-W02-B LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. -3'-6"
11548-IWE-W02-C LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. -3'-6"
11548-IWE-W02-D LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. -3'-6"
11548-IWE-W02-E LINER SEGMENT - BETWEEN COL. 9 & 10 AT ELEV. -3'-6"
11548-IWE-W02-F LINER SEGMENT - BETWEEN COL. 10 & 11 AT ELEV. -3'-6"
11548-IWE-W02-G LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. -3'-6"
11548-IWE-W02-H LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. -3'-6"
11548-IWE-W02-I LINER SEGMENT - BETWEEN COL. 15 & 1 AT ELEV. -3'-6"
11548-IWE-W03-A LINER SEGMENT - BETWEEN COL. 1 & 3 AT ELEV. 18'-4"
11548-IWE-W03-B LINER SEGMENT - BETWEEN COL. 3 & 5 AT ELEV. 18'-4"
11548-IWE-W03-C LINER SEGMENT - BETWEEN COL. 5 & 7 AT ELEV. 18'-4"
11548-IWE-W03-D LINER SEGMENT - BETWEEN COL. 7 & 9 AT ELEV. 18'-4"
11548-IWE-W03-E LINER SEGMENT - BETWEEN COL. 9 & 10 AT ELEV. 18'-4"
11548-IWE-W03-F LINER SEGMENT - BETWEEN COL. 10 & 11 AT ELEV. 18'-4"
11548-IWE-W03-G LINER SEGMENT - BETWEEN COL. 11 & 13 AT ELEV. 18'-4"
11548-IWE-W03-H LINER SEGMENT - BETWEEN COL. 13 & 15 AT ELEV. 18'-4"
11548-IWE-W03-I LINER SEGMENT - BETWEEN COL. 15 & 1 AT ELEV. 18'-4"
11548-IWE-W04-A LINER SEGMENT - BETWEEN AZ. 0° & 90° AT ELEV. 47'-4"
11548-IWE-W04-B LINER SEGMENT - BETWEEN AZ. 90° & 180° AT ELEV. 47'-4"
11548-IWE-W04-C LINER SEGMENT - BETWEEN AZ. 180° & 270° AT ELEV. 47'-4"
11548-IWE-W04-D LINER SEGMENT - BETWEEN AZ. 270° & 0° AT ELEV. 47'-4"