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DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION
SECOND 10-YEAR INSERVICE INSPECTION CLASS MC (ISI) PROGRAM

In accordance with IWA-1400(c) of ASME Boiler and Pressure Vessel Code Section XI, Dominion Energy Kewaunee, Inc. (DEK) is submitting the Kewaunee Power Station (Kewaunee) Second 10-Year Inservice Inspection Class MC (ISI) Program. As required by 10 CFR 50.55a(g)(5)(i), DEK has updated the Class MC (Metal Containment) Inservice Inspection (ISI) Program for Kewaunee. The next 120-month inspection interval starts on September 9, 2006. Therefore, in accordance with 10 CFR 50.55a(g)(4)(ii), DEK has upgraded the program to address the requirements of the ASME Boiler and Pressure Vessel Code Section XI 2001 Edition, up to and including the 2003 Addenda.

10 CFR 50.55a(g)(4)(ii) requires use of the latest edition and addenda that has been incorporated by reference one year prior to the beginning of each 120-month interval. For Kewaunee the applicable code and addenda is ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition with 2003 Addenda.

It is important to note that the ISI Program is a working document and that changes can be expected to occur during the implementation phase of the program, as allowed by 10 CFR 50.55a. Accordingly, DEK may periodically update the most recent revision of the Class MC ISI Program, including submittal of relief requests and ASME Boiler and Pressure Vessel Code Section XI Code Cases.

If you have questions or require additional information, please contact Mr. Craig Sly at 804-273-2784.

Very truly yours,

A handwritten signature in black ink, appearing to read "L. Hartz", written over the printed name.

Leslie N. Hartz
Vice President – Nuclear Engineering

A047

Enclosure – Kewaunee Power Station Second 10-Year Inservice Inspection Class MC
(ISI) Program, 2006-2016, Revision: Original

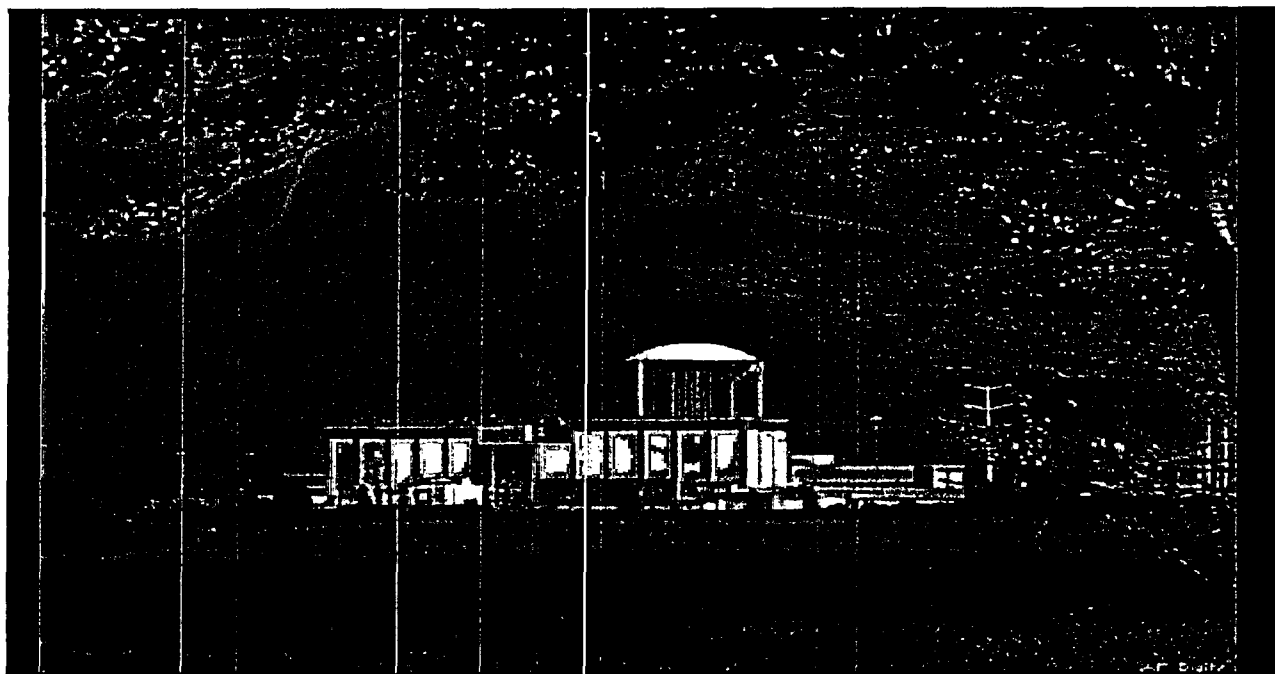
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KEWAUNEE POWER STATION

SECOND 10 - YEAR

INSERVICE INSPECTION

CLASS MC (ISI) PROGRAM

2006-2016

REVISION: ORIGINAL

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SECTION 1.0

INTRODUCTION

The Kewaunee Power Station, located nine miles south of Kewaunee, Wisconsin, on the western shore of Lake Michigan, is operated by Dominion Energy-Kewaunee. The Kewaunee Power Station is a 600 Megawatt Electric gross, Westinghouse design, two-loop pressurized water reactor that was placed into commercial operation in June 1974.

This plan fulfills the Second Inspection Interval Inservice Inspection (ISI) Class MC requirements specified by Code of Federal Regulations 10 CFR 50.55a (g) (6) (ii) (B), Federal Register/ Volume 61 No.190/ Friday October 1, 2004/ Rules and Regulations and ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda. The Second Inspection Interval starts September 9, 2006 and ends September 9, 2016.

The Second Inspection Interval ISI Class MC Plan for the Kewaunee Power Station addresses all the Containment Surfaces, Pressure Retaining Welds, Containment Surfaces requiring Augmented Examination, Moisture Barriers, Pressure Retaining Dissimilar Metal Welds, Pressure Retaining Bolting and Pressure Retaining Components that are required to be examined, the method of examination, and the inspection period (3 1/3 year time frame) during the ten years (2006-2016) when the examinations are scheduled.

This program follows Inspection Program B as defined in ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda Section IWE-2412.

Discussion to clarify each section of this document is found in the front of that particular section. For example, a description and list of drawing numbers has been provided as an introduction to Appendix A, ISI Drawings.

REVISION AND CONTROL

Revision of the Class MC (ISI) Program is controlled by NAD - 05.11 " Revision and Control of the ISI Plan". Revision to the Class MC ISI Drawings is controlled by GNP-05.01.01 " Drawing Development and Revision ".

SECTION 1.0

INTRODUCTION

When a revision is made to the Class MC ISI Program Plan, the entire affected section is revised. One copy of the original and subsequent revisions are maintained as a permanent record in the Kewaunee Power Station QA Vault. The updates will be sent to all controlled copy holders.

A revision and control basis section is included with each update. It contains the revision number, a brief description of the changes that occurred with each update, the section affected, the date of issuance, and the approvals. A revision log will be maintained to track controlled copy holders manual updates.

The following table documents changes to the Class MC (ISI) Program Plan:

| REV. | SECTION | PAGES | DESCRIPTION OF CHANGE | DATE OF ISSUANCE | APPROVALS |
|-------------|----------------|--------------|------------------------------|-----------------------------|------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SECTION 2.0

BACKGROUND

The Kewaunee Power Station Reactor Building Containment Vessel was designed and fabricated before the examination requirements of ASME Boiler and Pressure Vessel Code Section XI were formalized and published. Therefore, limitations are likely to occur due to conditions such as accessibility, geometric configuration, and/or metallurgical characteristics. Typically, these conditions will be documented in the Inservice Inspection Final Report following each Refueling Outage. Relief Requests, as required, will be submitted in accordance Code of Federal Regulations 10 CFR 50.55a (g) (5).

SECTION 3.0

EXEMPTIONS

Portions of the Class MC Components that are exempt from examinations are defined by Code Class as follows:

Class MC

Exemption E 1-1

**Code Reference: ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003
Addenda Article IWE-1000 Subsection IWE-1220**

Description:

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 system as defined in the Design Specifications;**
- (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 conditions of 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 IWB or IWC, as appropriate to the classification defined by the Design Specifications.**

Embedded and Inaccessible portions of the Class MC Reactor Building Containment Vessel at the Kewaunee Power Station are identified on drawing M-1727 and include:

- 1. Reactor Building Containment Vessel Containment Surfaces**
 - A. Plate 1 through Plate 61**
 - B. Plate 62 (Partially Inaccessible) through Plate 70 (Partially Inaccessible)**
 - C. Plate 78 (Partially Inaccessible)**
 - D. Plate 79 (Partially Inaccessible)**
 - E. Penetration No.30E and Penetration No.30W**
 - F. Personnel Airlock (Partially Inaccessible)**

SECTION 3.0

EXEMPTIONS

2. Reactor Building Containment Vessel Penetration Welds

- A. RBCV-PLW1
- B. RBCV-PLW2 (Partially Inaccessible)
- C. RBCV-PLW5 (Partially Inaccessible)
- D. RBCV-PLW10 (Partially Inaccessible)
- E. RBCV-PLW15 (Partially Inaccessible)
- F. RBCV-CW1
- G. RBCV-CW2
- H. RBCV-CW3
- I. RBCV-CW4 (Partially Inaccessible)
- J. RBCV-CW5 (Partially Inaccessible)
- K. RBCV-CW6 (Partially Inaccessible)
- L. RBCV-LW1 and RBCV-LW9
- M. RBCV-LW2 (Partially Inaccessible) through RBCV-LW 8 (Partially Inaccessible)
- N. RBCV-LW17 (Partially Inaccessible)
- O. RBCV-LW38 (Partially Inaccessible)
- P. RBCV-MW1 through RBCV-MW64
- Q. Penetration No.30E and Penetration No.30W
- R. Electrical Penetrations (Partially Inaccessible): A-1 through A-6; B-1 through B-6; B-9; B-12; C-1; C-2; C-3; C-4; C-5; C-6; D-1; D-2; D-3; D-4; D-5; D-6; D-8; D-11; E-1 through E-6; and F-1 through F-6.
- S. PA-W1 (Partially Inaccessible)
- T. PA-W5 (Partially Inaccessible)
- U. PA-W16 (Partially Inaccessible)
- V. PA-W19 (Partially Inaccessible)
- W. PA-W20 (Partially Inaccessible)

3. Reactor Building Containment Vessel Moisture Barriers

- A. RBCV-PLW2 (Partially Inaccessible)
- B. RBCV-PLW5 (Partially Inaccessible)
- C. RBCV-PLW10 (Partially Inaccessible)
- D. RBCV-CW3
- E. RBCV-LW1 and RBCV-LW9
- F. RBCV-LW2 (Partially Inaccessible) through RBCV-LW8 (Partially Inaccessible)
- G. Plate 62 (Partially Inaccessible) through Plate 70 (Partially Inaccessible)

SECTION 3.0

EXEMPTIONS

4. Reactor Building Containment Vessel Bellows Expansion Joint, Associated Piping and Welds to Flued Head

- A. Penetration No.6E (Partially Inaccessible Protective Metal Covering)**
- B. Penetration No.6W (Partially Inaccessible Protective Metal Covering)**
- C. Penetration No.7E (Partially Inaccessible Protective Metal Covering)**
- D. Penetration No.7W (Partially Inaccessible Protective Metal Covering)**
- E. Penetration No.8N (Partially Inaccessible Protective Metal Covering)**
- F. Penetration No.8S (Partially Inaccessible Protective Metal Covering)**
- G. Penetration No. 9 (Partially Inaccessible Protective Metal Covering)**
- H. Penetration No.10 (Partially Inaccessible Protective Metal Covering)**
- I. Penetration No.11 (Partially Inaccessible Protective Metal Covering)**
- J. Penetration No.18 (Partially Inaccessible Protective Metal Covering)**

Exemption E 1-2

**Code Reference: ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003
Addenda Article IWE-1000 Subsection IWE-1220**

Description:

The following components (or parts of components) are exempted from the examination requirements of IWE-2000:

- (a) vessels, parts, and appurtenances that are outside the boundaries of the containment system as defined in the Design Specifications:**
- (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 conditions of 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 IWB or IWC, as appropriate to the classification defined by the Design Specifications.**

SECTION 3.0

EXEMPTIONS

Piping, pumps, and valves that are part of the containment system, or which penetrate or are attached to the containment vessel at the Kewaunee Power Station were classified (using Nuclear Regulatory Guide 1.26 as a guideline) and are examined according to the Kewaunee Nuclear Power Plant Fourth 10-Year Inservice Inspection (ISI) Program 2004-2014.

Background

As part of the design of the Kewaunee Power Station, Pioneer Services and Engineering Company, the architect-engineer, established the original Quality Assurance Boundaries. In June 1970, the Atomic Energy Commission issued quality assurance criteria for nuclear power plants. During construction, the 10CFR 50, Appendix B program was the primary program used in the design, fabrication, and testing of QA-1 safety-related structures, systems, and components. QA-1 identified those structures, systems, and components that prevent or mitigate the consequences of postulated accidents that could cause undue risk to the health and safety of the public. Valve type and placement that are used to represent boundaries for the Section XI classification system are based on the original design and QA classification. With only three exceptions, the Spent Fuel Pool Cooling and Clean-Up System (which does not penetrate the Reactor Building Containment Vessel), including 2" Piping from RWST to 2" Valves FPC-1100 and FPC-1010 (QA-3), Service Water System Service Water Pump Strainers (4 Total) 3" Backwash Lines (QA-3) and Service Water Side of Spent Fuel Pool Heat Exchanger up to 6" valves SW-1601 and SW-1602 (QA-3), all Section XI Boiler and Pressure Vessel Code piping falls within the QA-1 boundary at the Kewaunee Power Station. The QA Boundary classification system assures the highest possible degree of Quality standards consistent with the importance of the safety function at the Kewaunee Power Station. The QA Boundaries are defined on the Operation P&ID'S.

As explained above, the Kewaunee Power Station was designed, fabricated, and the Section XI pre-service examinations were completed before the ISI classification rules were formalized and published. For this reason, it is not practical and/or not possible for the Kewaunee Power Station to always apply the current ISI classification guidance to all portions of safety-related systems that were reviewed for inclusion in the Section XI code class boundary.

SECTION 4.0

CODE CASES

There are no current ASME Boiler and Pressure Vessel Code Section XI Code Cases that have been approved by the Nuclear Regulatory Commission under Regulatory Guide 1.147 "Inservice Inspection Code Case Acceptability ASME Section XI Division 1" that apply for the Kewaunee Power Station Second 10-Year Inservice Inspection Class MC (ISI) Program 2006-2016.

Future approved Code Cases if they apply at the Kewaunee Power Station will be utilized as applicable and when available.

SECTION 5.0
RELIEF REQUESTS

There are no current ASME Boiler and Pressure Vessel Code Section XI Relief Requests that apply to the Kewaunee Power Station Second 10-Year Inservice Inspection Class MC (ISI) Program 2006-2016.

Future Relief Request for the Kewaunee Power Station, if required, will be submitted to the Nuclear Regulatory Commission per the requirements of 10CFR50.55a (a)(3)(i).

SECTION 6.0

ISI PLAN

Section 6.0 is a summary of the Code requirements sorted by Code Item Number. This section defines the total number of components that exist at the Kewaunee Power Station per Code Item Number and defines how many have been selected for examination each period. Comments are also provided to clarify particular code requirements.

SELECTION AND SCHEDULING CRITERIA

The following outlines the basis used in selection of items to be examined and the scheduling of those items by period during Kewaunee's Second Inspection Interval.

1. Selection Criteria

The methodology used for selecting Containment Surfaces, Pressure Retaining Welds, Containment Surfaces requiring Augmented Examination, Seals, Gaskets, Moisture Barriers, Pressure Retaining Dissimilar Metal Welds, Pressure Retaining Bolting and Pressure Retaining Components to be examined was based on one or more of the following factors:

- a. Inspection Program B**
- b. Section XI specifies which Code Item requires 100% examination or less than 100% examination during the Second Inspection Interval.**
- c. Section XI specifies the boundary for each Code Item that is to be examined i.e. Containment Surfaces from either the inside or outside surfaces, weld metal and base metal for 1/2" beyond the edge of the weld; structures that are parts of reinforcing structures, such as stiffening rings, manhole frames, and reinforcement around openings; seals and gaskets on airlocks and hatches; etc.**

2. Scheduling Criteria

Once the appropriate Containment Surfaces, Pressure Retaining Welds, Containment Surfaces requiring Augmented Examinations, Moisture Barriers, Pressure Retaining Dissimilar Metal Welds, Pressure Retaining Bolting or Pressure Retaining Components were selected for examination, they were scheduled for a particular period within the interval in accordance with one of the following:

SECTION 6.0

ISI PLAN

- a. Deferral of inspection to the End Of Interval (EOI or Third Period). Items that may be deferred until the EOI have been identified in the ISI Schedule Tables. The Plant Staff has placed items that maybe deferred in the period that is most convenient in terms of resource planning and scheduling. However, the examinations may occur during any one of the periods prior to the EOI as preferred by the plant.**
- b. Nonpermissible Deferral: For those items, examinations were distributed in accordance with the minimum/maximum allowable percentage in a period as outlined by ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda Table IWE-2412-1.**

Section 6.0

ISI Plan

| Kewaunee Power Station Second Inservice Inspection Interval Inservice Inspection Plan | | | | | | | | | |
|--|-------|------------------------|--------------------|--------------------|--------------------|---------------------------------------|-------|-------|--|
| ASME Item Number | Total | Code Requirement | | Number Scheduled | % Scheduled | Total Scheduled for Inspection Period | | | Comments |
| | | % Required | No. Required | | | Per 1 | Per 2 | Per 3 | |
| E1.11 | 722 | 100 (Of Accessible) | 589 | 589 | 100 | 589 | 589 | 589 | General Visual Required. |
| E1.11 | 10 | 100 (As Accessible) | 10 | 10 | 100 | 10 | 10 | 10 | Per 10CFR 50.55a (b) (2) (ix) (G): A VT-3 Visual Examination shall be performed on Item No.E1.11 Pressure Retaining Bolted Connections in lieu of General Visual Examination. Per 10CFR 50.55a (b) (2) (ix) (H): 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. |
| E1.12 | 100% | 100 (Of Accessible) | 100% As Identified | 100% As Identified | 100% As Identified | 100% | 100% | 100% | Per 10CFR 50.55a (b) (2) (ix) (G): A VT-3 Visual Examination shall be performed on Item No. E1.12 in lieu of General Visual Examination. |
| E1.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | None at Kewaunee Power Station |

Section 6.0

ISI Plan

| Kewaunee Power Station Second Inservice Inspection Interval Inservice Inspection Plan | | | | | | | | | |
|---|-------|---------------------|--|------------------|-------------|---------------------------------------|-------|-------|--|
| ASME Item Number | Total | Code Requirement | | Number Scheduled | % Scheduled | Total Scheduled for Inspection Period | | | Comments |
| | | % Required | No. Required | | | Per 1 | Per 2 | Per 3 | |
| E1.30 | 23 | 100 (Of Accessible) | 20 | 20 | 100 | 20 | 20 | 20 | General Visual required. |
| E4.11 | 100% | 100 | 100% of surface areas identified | 100% | 100 | 100% | 100% | 100% | Containment surface areas. Per 10CFR50.55a (b) (2) (ix) (G): VT-1 required of visible surfaces requiring augmented examinations. Required augmented examinations are those identified in IWE-1242. |
| E4.12 | 100% | 100 | 100% of minimum wall thickness locations | 100% | 100 | 100% | 100% | 100% | Containment surface areas. Surface area grid, minimum wall thickness locations requiring augmented examinations are those established in accordance with IWE-2500(b)3 and IWE-2500(b)4. |

SECTION 7.0
DISTRIBUTION

Distribution of Containment Surfaces, Pressure Retaining Welds, Containment Surfaces requiring Augmented Examinations, Moisture Barriers, Pressure Retaining Dissimilar Metal Welds, Pressure Retaining Bolting and Pressure Retaining Components subject to examination under ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda Table IWE-2500-1 shall be as referenced in Section 8.0 Schedule.

SECTION 8.0

SCHEDULE

The following provides an explanation of the ISI schedule sheet (see attached sample).

- 1. The examination category letter designation specified by ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda (E-A or E-C).**
- 2. The written designation associated with the examination category.**
- 3. The item number associated with a particular examination category.**
- 4. The written description associated with the item number (i.e. listed under "Parts Examined" on the Code Examination Table IWE-2500-1).**
- 5. The isometric number of the Containment Surface, Pressure Retaining Weld, Containment Surface requiring Augmented Examination, Moisture Barrier, Pressure Retaining Dissimilar Metal Weld, Pressure Retaining Bolting or Pressure Retaining Component being examined.**
- 6. The equipment number of the Containment Surface, Pressure Retaining Weld, Containment Surface requiring Augmented Examination, Moisture Barrier, Pressure Retaining Dissimilar Metal Weld, Pressure Retaining Bolting or Pressure Retaining Component being examined.**
- 7. This column allows for the placement of the characters 1, 2, 3, A or B for future intervals. The letter A will signify that the component was examined during the First Inspection Interval. The letter B will signify that the component was examined during the Second Interval.**

SECTION 8.0

SCHEDULE

- 8. Examinations are scheduled by means of an "X" in the appropriate period (3 1/3 years or 1/3 of interval) column for which the examination is scheduled to be performed. The End of Interval (EOI) columns are used to indicate whether or not ASME Boiler and Pressure Vessel Code Section XI permits the examination to be deferred until the end of the interval: a "P " means permissible, a "PD" indicates partial deferral is allowed, and a "N" means the examination may not be deferred. Items identified with a "P" in the EOI column may be examined at any time during the interval and can be rescheduled as preferred by the plant without compromising Code requirements. Items scheduled for examination that are identified with a "N" in the EOI column must be performed during that 3 1/3 year period. The only exception is if they are exchanged one for one. All exchanges should be documented in the ISI Plan or ISI Refueling Outage Reports. The items that are not selected for examination are identified by a "N" in the schedule column.**
- 9. The method by which the Containment Surface, Pressure Retaining Weld, Containment Surface requiring Augmented Examination, Moisture Barrier, Pressure Retaining Dissimilar Metal Weld, Pressure Retaining Bolting or Pressure Retaining Component is To be examined. If the method is to be volumetric (Vol.), Surface (Sur.), or Visual (Vis.), it will be denoted by an "X" in the respective column.**
- 10. This column denotes the Relief Request, Code Case, or any other specific exemption where the Code required examination is not met. Refer to the Section 3.0 Exemptions, Section 4.0 Code Cases and Section 5.0 Relief Requests of this document for further discussion.**
- 11. The comments and category notes sections are used when required to provide further clarification pertaining to the selection, scheduling, coverage required, and examination method of the Containment Surface, Pressure Retaining Weld, Containment Surface requiring Augmented Examination, Moisture Barrier, Pressure Retaining Dissimilar Metal Weld, Pressure Retaining Bolting or Pressure Retaining Component specified in the Plan. Coverage is 100% unless otherwise noted.**

**Section 8.0
Schedule**

KEWAUNEE POWER STATION

SECOND INTERVAL ISI SCHEDULE

| Examination Category <u>(1)</u> Description <u>(2)</u> | | | | | | | | | | | | | | |
|--|----------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| (3) | (4) | (5) | (6) | (7) | (8) | | | | | (9) | | | (10) | (11) |
| | | | | | | | | | | | | | | |
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Category Notes:

KEWAUNEE POWER STATION

SECOND INTERVAL ISI SCHEDULE

Examination Category E-C

Description CONTAINMENT SURFACES REQUIRING AUGMENTED EXAMINATION

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|---|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E4.10 | Containment Surface Areas | | | | | | | | | | | | | |
| E4.11 | Visible Surfaces | M-1727 | As Identified | | | X | X | X | N | | | X | | |
| E4.12 | Surface Area Grid Minimum Wall Thickness Location | M-1727 | As Identified | | | X | X | X | N | X | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Category Notes:

1. Containment surface areas requiring augmented examination are those identified in IWE-1240.
2. The extent of the 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 in accordance with IWE-2420(c).
3. Per Nuclear Regulatory Commission 10CFR50.55a (b)(2) (ix) (G): A VT-1 Visual Examination shall be performed on Item No. E4.11 Visible Surfaces in lieu of Detailed Visual Examination.

KEWAUNEE POWER STATION

SECOND INTERVAL ISI SCHEDULE

Examination Category **E-A**

Description **CONTAINMENT SURFACES**

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|--|-----------------|-----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|--------------------------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.10 | Containment Vessel Pressure Retaining Boundary | | | | | | | | | | | | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 1 thru Plate 61 | | | | | | N | | | X | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | Plate 62 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 63 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 64 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 65 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 66 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 67 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 68 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 69 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 70 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 71 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 72 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 73 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 74 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 75 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 76 | A | | X | X | X | N | | | X | | Note 1 |

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| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 77 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 78 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 79 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 80 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 81 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 82 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 83 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 84 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 85 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 86 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 87 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 88 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 89 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 90 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 91 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 92 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 93 | A | | X | X | X | N | | | X | | Note 1 |

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| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 94 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 95 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 96 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 97 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 98 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 99 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 100 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 101 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 102 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 103 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 104 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 105 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 106 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 107 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 108 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 109 | A | | X | X | X | N | | | X | | Note 1 |

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| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 110 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 111 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 112 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 113 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 114 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 115 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 116 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 117 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 118 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 119 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 120 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 121 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 122 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 123 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 124 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 125 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 126 | A | | X | X | X | N | | | X | | Note 1 |

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Examination Category **E-A**

Description **CONTAINMENT SURFACES**

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 127 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 128 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 129 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 130 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 131 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 132 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 133 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 134 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 135 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 136 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 137 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 138 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 139 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 140 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 141 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 142 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 143 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 144 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 145 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 146 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 147 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 148 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 149 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 150 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 151 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 152 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 153 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 154 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 155 | A* | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 156 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 157 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 158 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 159 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 160 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 161 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 162 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 163 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 164 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 165 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 166 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 167 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 168 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 169 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 170 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 171 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 172 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 173 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 174 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 175 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 176 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 177 | A | | X | X | X | N | | | X | | Note 1 |

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| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
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| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 178 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 179 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 180 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 181 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 182 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 183 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 184 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 185 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 186 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 187 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 188 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 189 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 190 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 191 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 192 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 193 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 194 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 195 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 196 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 197 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 198 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 199 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 200 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 201 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 202 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 203 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 204 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 205 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 206 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 207 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 208 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 209 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 210 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 211 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 212 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 213 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 214 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 215 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 216 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 217 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 218 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 219 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 220 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 221 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 222 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 223 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 224 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 225 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 226 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 227 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Plate 228 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|--------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Plate 229 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Personnel Airlock | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Equipment Door | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Emergency Airlock | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 6E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 6W | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 7E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 7W | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 8N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 8S | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 10 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|---------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 13E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 13N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 14 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 15 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 16 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 17 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 18 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 19 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 20 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 21 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 22 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 23 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 24 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 25N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 25S | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|--------------------------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 26 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 27E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 27EN | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 27N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 27NE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 27NW | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 28E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 28N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 29E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 29N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 30E | | | | | | N | | | X | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 30W | | | | | | N | | | X | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 31 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 32E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 32N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 33E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 33N | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 35 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 36N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 36NW | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 36S | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 36SE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 36W | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 37EN | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 37ES | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 37NE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 37NW | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 38EN | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 38ES | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 38NE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 38NW | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 39 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 40 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 41E | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|-----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 41ES | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 41S/S | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42EN | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42NE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42NW | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42S | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 42W | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 43N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 43S | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 43SE | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 44 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 45 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 46E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 46W | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 48 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 49E | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 49N | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. 50 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-7 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. A-12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-2 | A | | X | X | X | N | | | X | | Note 1 |

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| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-7 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. B-12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-7 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. C-12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-7 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. D-12 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-5 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-7 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. E-12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-1 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-2 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-3 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-4 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-5 | A | | X | X | X | N | | | X | | Note 1 |

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|----------|-------------------------|-----------------|----------------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------------------------------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-6 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-7 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-8 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-9 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-10 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-11 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | Penetration No. F-12 | A | | X | X | X | N | | | X | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW1 | | | | | | N | | | N | | Inaccessible – Concrete Ring |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW8 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW9 | | | | | | N | | | N | | Note 1: Refueling Transfer Canal |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW10 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW11 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW12 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW13 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW14 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW15 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW16 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW17 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW18 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW19 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW20 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW21 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW22 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW23 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW24 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW25 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW26 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW27 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW28 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW29 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW30 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW31 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW32 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW33 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW34 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW35 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW36 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW37 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW38 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW39 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW40 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW41 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW42 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW43 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW44 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW45 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW46 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW47 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW48 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW49 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW50 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW51 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW52 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW53 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW54 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW55 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW56 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW57 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW58 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW59 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW60 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW61 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW62 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW63 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW64 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW65 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW66 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW67 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW68 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW69 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW70 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW71 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW72 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW73 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW74 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW75 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW76 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW77 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW78 | | | X | X | X | N | | | N | | Note 1 |

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| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW79 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW80 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW81 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW82 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW83 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW84 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW85 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW86 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW87 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW88 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW89 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW90 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW91 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW92 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW93 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW94 | | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | RBCV-LW95 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW96 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW97 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW98 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW99 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW100 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW101 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW102 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW103 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW104 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW105 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW106 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-LW107 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW1 thru RBCV-MW64 | | | | | | N | | | N | | Inaccessible – Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW65 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW66 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW67 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW68 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW69 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW70 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW71 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW72 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW73 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW74 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW75 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW76 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW77 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW78 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW79 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW80 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW81 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW82 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW83 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW84 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW85 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW86 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW87 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW88 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW89 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW90 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW91 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW92 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW93 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW94 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW95 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW96 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW97 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW98 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW99 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW100 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW101 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW102 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW103 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW104 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW105 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW106 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW107 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW108 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW109 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW110 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW111 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW112 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW113 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW114 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW115 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW116 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW117 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW118 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW119 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW120 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW121 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW122 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW123 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW124 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW125 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW126 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW127 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-MW128 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW1 | | | | | | N | | | N | | Inaccessible- Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW7 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW8 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW9 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW10 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW11 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW12 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW13 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW14 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW15 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW16 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW17 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW18 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW19 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW20 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW21 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW22 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW23 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-PLW24 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW1 | | | | | | N | | | N | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW2 | | | | | | N | | | N | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW3 | | | | | | N | | | N | | Inaccessible-Bottom Head |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW8 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW9 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW10 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW11 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW12 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW13 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW14 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW15 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-CW16 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW1 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW8 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW9 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-BW10 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW1 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW8 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW9 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW10 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW11 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW12 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW13 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW14 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW15 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-DMW16 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW1 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | RBCV-FLW7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W1 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W2 | | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | EA-W3 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W4 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | EA-W7 | | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W1 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W2 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W3 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W4 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W5 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W6 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W7 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W8 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W9 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W10 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W11 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | ED-W12 | A | | X | X | X | N | | | N | | Note 1 |

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| EI.11 | Accessible Surface Area | M-1727 | ED-W13 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | ED-W14 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | ED-W15 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W1 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W2 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W3 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W4 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W5 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W6 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W7 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W8 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W9 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W10 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W11 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W12 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W13 | A | | X | X | X | N | | | N | | Note 1 |
| EI.11 | Accessible Surface Area | M-1727 | PA-W14 | A | | X | X | X | N | | | N | | Note 1 |

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| E1.11 | Accessible Surface Area | M-1727 | PA-W15 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | PA-W16 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | PA-W17 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | PA-W18 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | PA-W19 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Accessible Surface Area | M-1727 | PA-W20 | A | | X | X | X | N | | | N | | Note 1 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Personnel Airlock | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Equipment Door | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Emergency Airlock | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.18 | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.41E | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.41S/S | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.42N | A | | X | X | X | N | | | N | | Note 1 and Note 3 |

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| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.43N | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.C-10 | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.11 | Bolted Connection Accessible Surface Area | M-1727 | Penetration No.F-8 | A | | X | X | X | N | | | N | | Note 1 and Note 3 |
| E1.12 | Wetted Surfaces of Submerged Areas | M-1727 | As Applicable | | | X | X | X | N | | | X | | Note 1 and Note 3 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-PLW2 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-PLW5 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-PLW10 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-PLW14 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-CW3 | | | | | | N | | | X | | Inaccessible-Bottom Head |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW1 | | | | | | N | | | X | | Inaccessible-Concrete Ring |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW2 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW3 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW4 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW5 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW6 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |

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Examination Category E-A

Description CONTAINMENT SURFACES

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|-------------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|---|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW7 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW8 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | RBCV-LW9 | | | | | | N | | | X | | Note 1: Inaccessible Refueling Transfer Canal |
| E1.30 | Moisture Barriers | M-1727 | Plate 62 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 63 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 64 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 65 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 66 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 67 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 68 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 69 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |
| E1.30 | Moisture Barriers | M-1727 | Plate 70 | A | | X | X | X | N | | | X | | Note 1 and Note 2 |

**KEWAUNEE POWER STATION
SECOND INTERVAL ISI SCHEDULE**

Examination Category **E-A** Description **CONTAINMENT SURFACES**

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|----------------|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |

Category Notes:

1. Examination shall include all accessible interior and exterior surfaces of the Class MC components, parts, 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 parts of 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, except for nonstructural or temporary attachments as defined in NE-4435 and minor permanent attachments as defined in CC-4543.4.
 - (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. Examination shall include moisture barrier materials intended to prevent intrusion of moisture against inaccessible areas of the pressure retaining metal containment shell or liner at concrete-to-metal interfaces and at metal-to-metal interfaces which are not seal welded. Containment moisture barrier materials include caulking, flashing, and other sealants used for this application.
3. Per Nuclear Regulatory Commission 10CFR50.55a (b)(2) (ix) (G): A VT-3 Visual Examination shall be performed on Item No. E1.11 Pressure Retaining Bolted Connections in lieu of General Visual Examination and a VT-3 Visual Examination on Item No. E1.12 Wetted Surfaces of Submerged Areas in lieu of General Visual Examination. Per 10CFR 50.55a (b) (2) (ix) (H): Item No. E1.11 Pressure Retaining Bolted Connections: 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 ASME Boiler and Pressure Vessel Code Section XI IWB-3517.1 must be used to evaluate containment bolting flaws or degradation.

**KEWAUNEE POWER STATION
SECOND INTERVAL ISI SCHEDULE**

Examination Category **E-C** Description **CONTAINMENT SURFACES REQUIRING AUGMENTED EXAMINATION**

| Item No. | Parts Examined | ISI Drawing No. | Equipment No. | INT. | Examination Period | | | | | Examination Methods | | | Exemption, Code Case, or Relief Request | Comments |
|----------|---|-----------------|---------------|------|--------------------|---|---|---|-----|---------------------|-----|-----|---|----------|
| | | | | | Sch | 1 | 2 | 3 | EOI | Vol | Sur | Vis | | |
| E4.10 | Containment Surface Areas | | | | | | | | | | | | | |
| E4.11 | Visible Surfaces | M-1727 | As Identified | | | X | X | X | N | | | X | | |
| E4.12 | Surface Area Grid Minimum Wall Thickness Location | M-1727 | As Identified | | | X | X | X | N | X | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Category Notes:

1. Containment surface areas requiring augmented examination are those identified in IWE-1240.
2. The extent of the 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 in accordance with IWE-2420(c).
3. Per Nuclear Regulatory Commission 10CFR50.55a (b)(2) (ix) (G): A VT-1 Visual Examination shall be performed on Item No. E4.11 Visible Surfaces in lieu of Detailed Visual Examination.

SECTION 9.0

BIBLIOGRAPHY

- 1. ASME Boiler and Pressure Vessel Code Section XI 1992 Edition 1992 Addenda.**
- 2. ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda**
- 3. Code of Federal Regulations Title 10 Part 50.**
- 4. Federal Register Volume 61 No.154 Thursday August 8, 1996 Rules and Regulations.**
- 5. Kewaunee Power Station Technical Specification**
- 6. Kewaunee Power Station Updated Safety Analysis Report (USAR).**
- 7. Kewaunee Power Station Safety Related Drawings.**
- 8. Kewaunee Power Station ISI Component Drawings.**
- 9. Nuclear Regulatory Commission Regulatory Guide 1.147, Inservice Inspection Code Case Acceptability ASME Section XI Division 1.**
- 10. Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection Class MC (ISI) Program 1996-2006**
- 11. Kewaunee Nuclear Power Plant Fourth 10-Year Inservice Inspection (ISI) Program 2004-2014**

APPENDIX A

ISI DRAWINGS

The ISI Drawings provide a source document for planning, scheduling, and administration of components subject to inspection under ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda Class MC Table IWE-2500-1. The information located on the ISI Component Drawings (M-1727 Sheets 1 through 34) for the Reactor Building Containment Vessel include:

- a. Containment Surfaces**
- b. Pressure Retaining Welds**
- c. Seals**
- d. Gaskets**
- e. Moisture Barriers**
- f. Pressure Retaining Dissimilar Welds**
- g. Pressure Retaining Bolting**
- h. Component Accessibility**
- i. Component Insulated or Noninsulated**
- j. Condition of Surfaces (Painted or Non Painted)**
- k. Comments**

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| & SAFETY LINE POST | APP'D: FEB 9-24-99 |
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M-1727 SH. 1 OF 34

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CODE SECTION XI CLASS MC

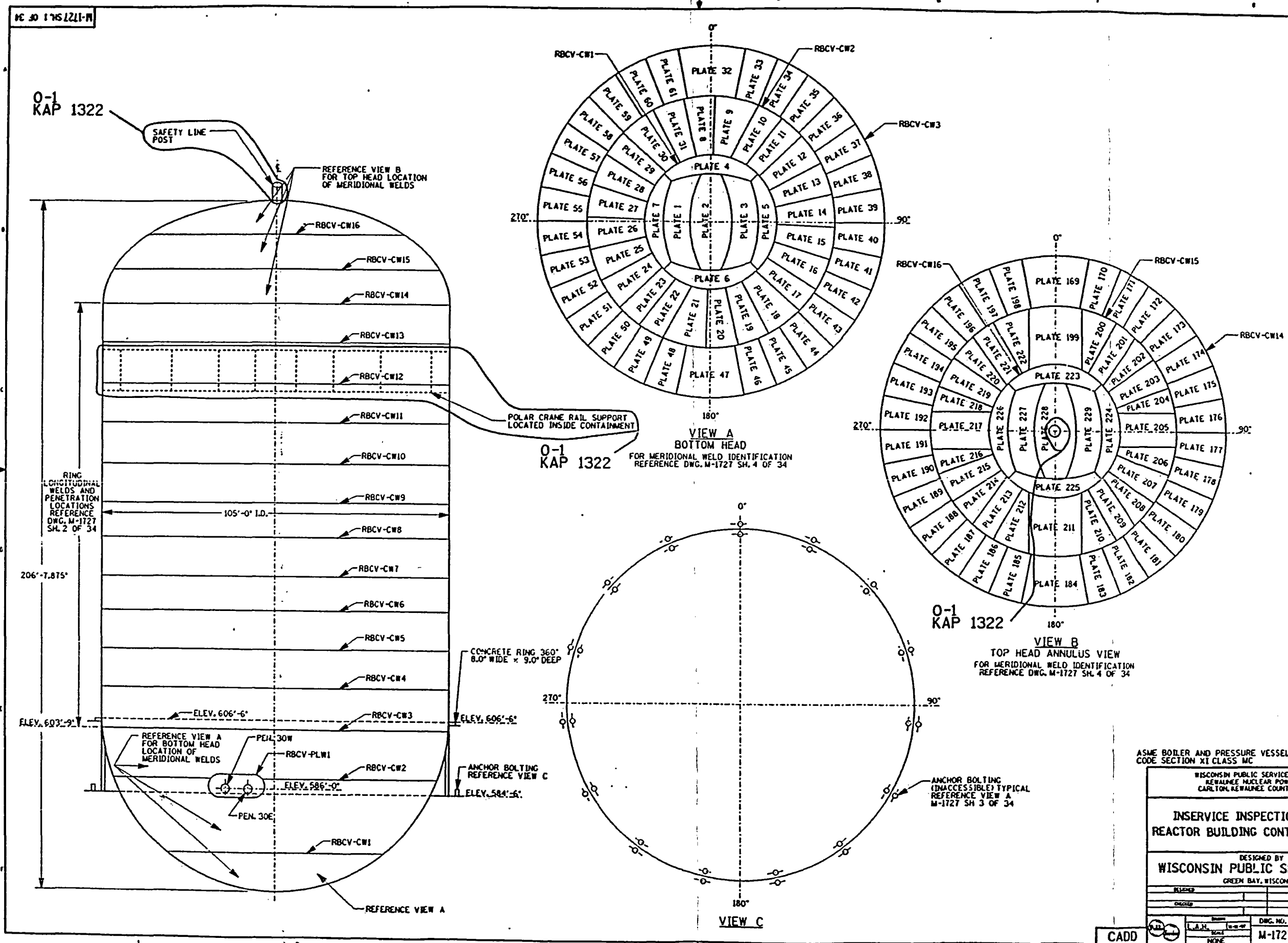
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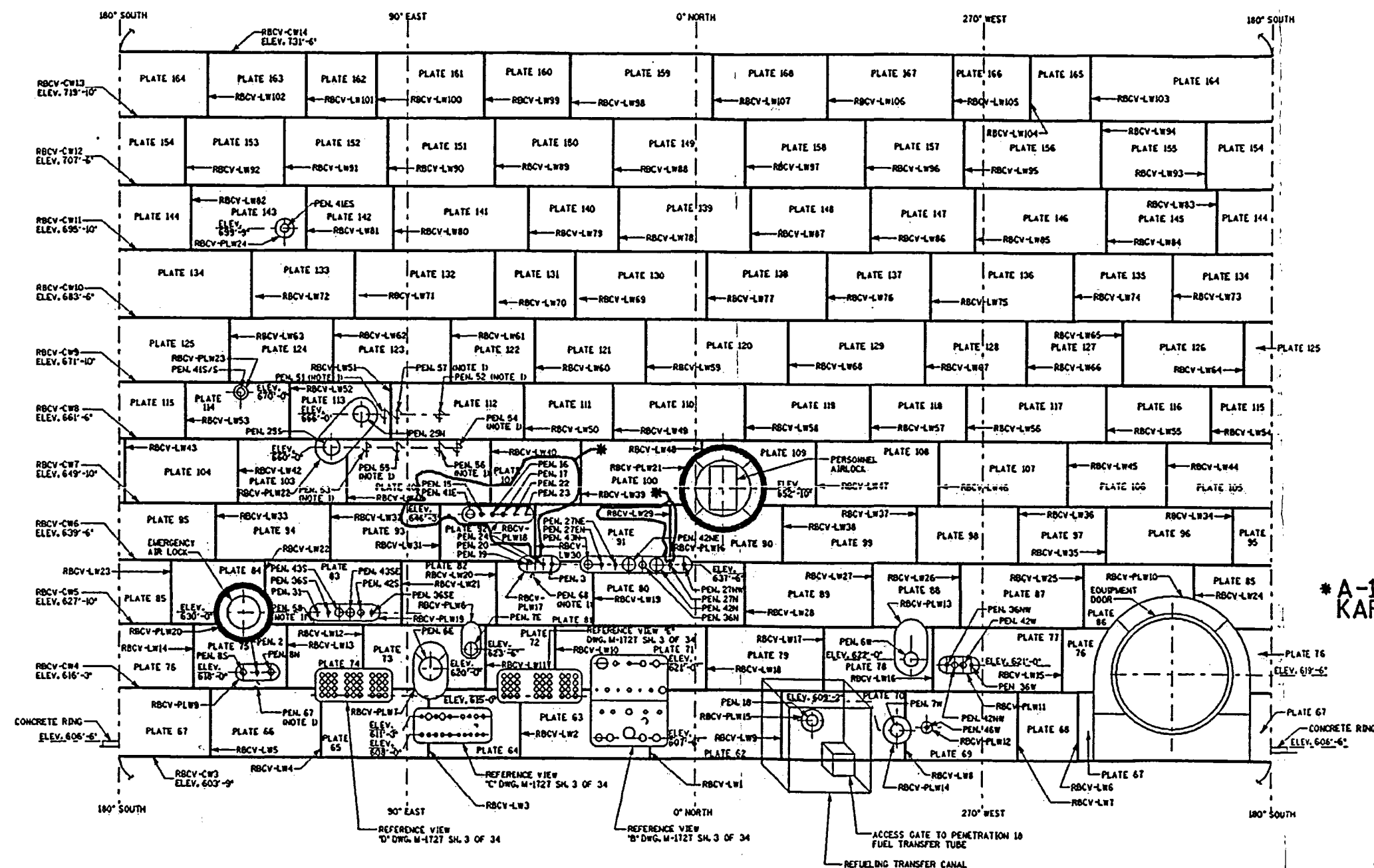
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M-1727 SH. 1 OF 34
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REACTOR BUILDING CONTAINMENT VESSEL LAYOUT VIEW FROM ANNULUS



NOTES: 1. DOTTED PENETRATIONS ARE FOR REFERENCE ONLY. PENETRATIONS AT THESE LOCATIONS PENETRATE THE CONTAINMENT SHIELD BUILDING ONLY AND NOT THE REACTOR BUILDING CONTAINMENT VESSEL.

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| A KAP 1322 COMPL | |
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| A-1 KAP 97-00132 | |
| REVISED PLATES 91 | |
| AND 92 | |
| BY: 11-14-01 | |
| APP'D PEB 11-15-01 | |
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| FILMED NPS 11-20-01 | |

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ASME BOILER AND PRESSURE VESSEL
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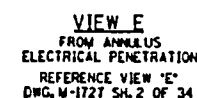
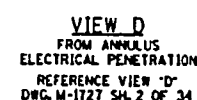
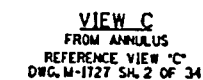
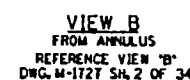
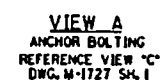
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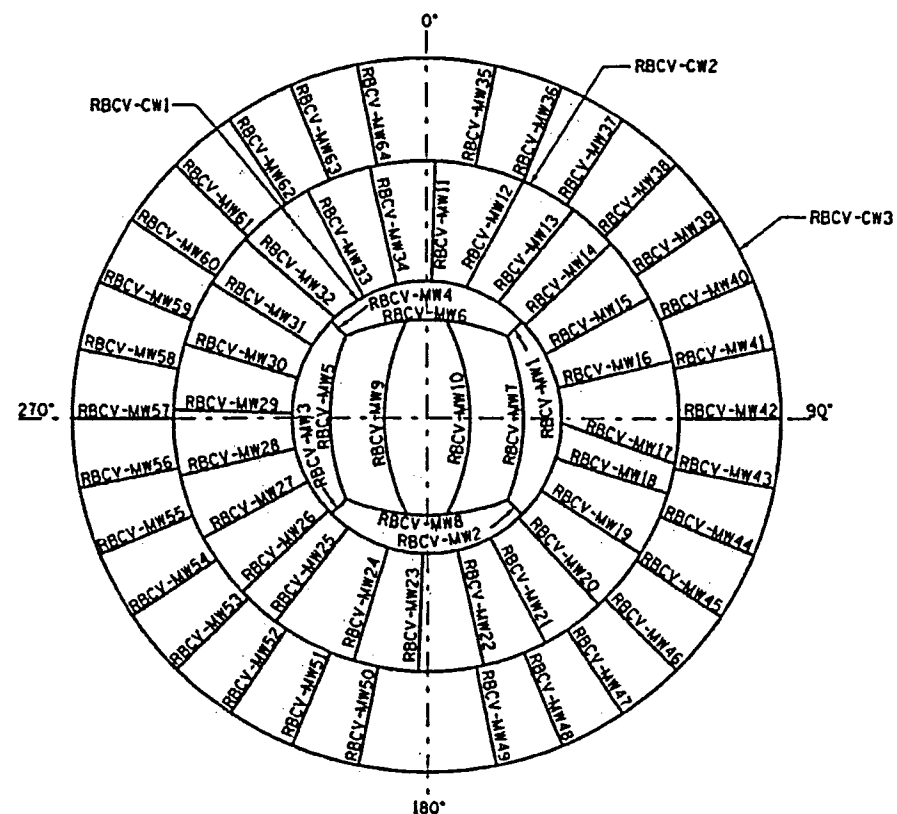
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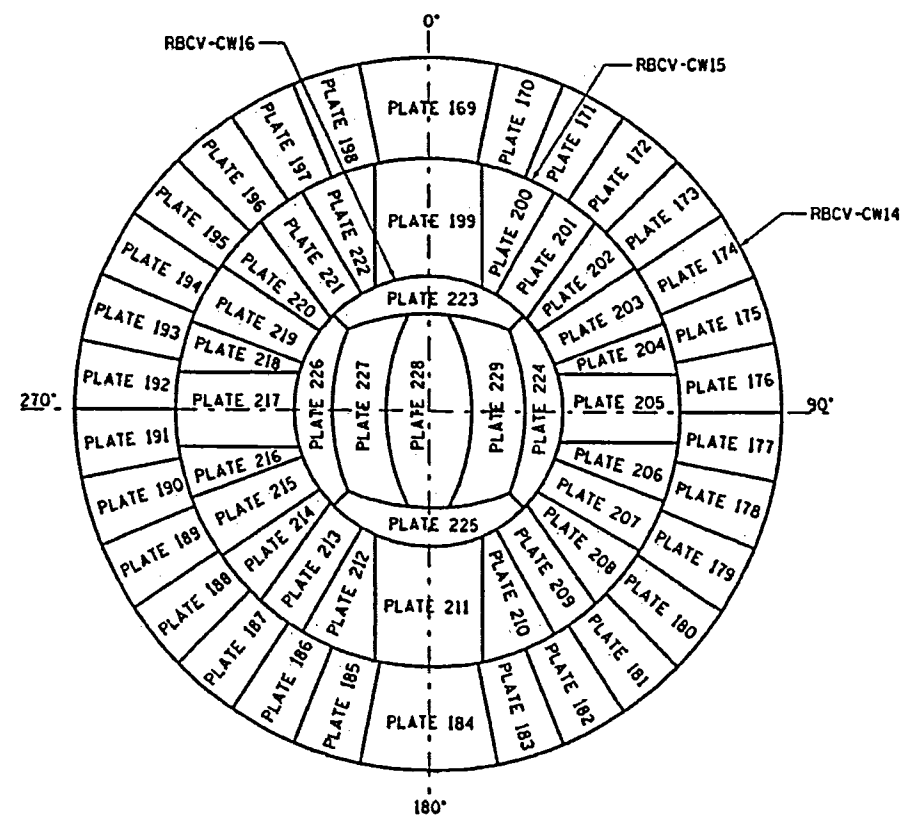
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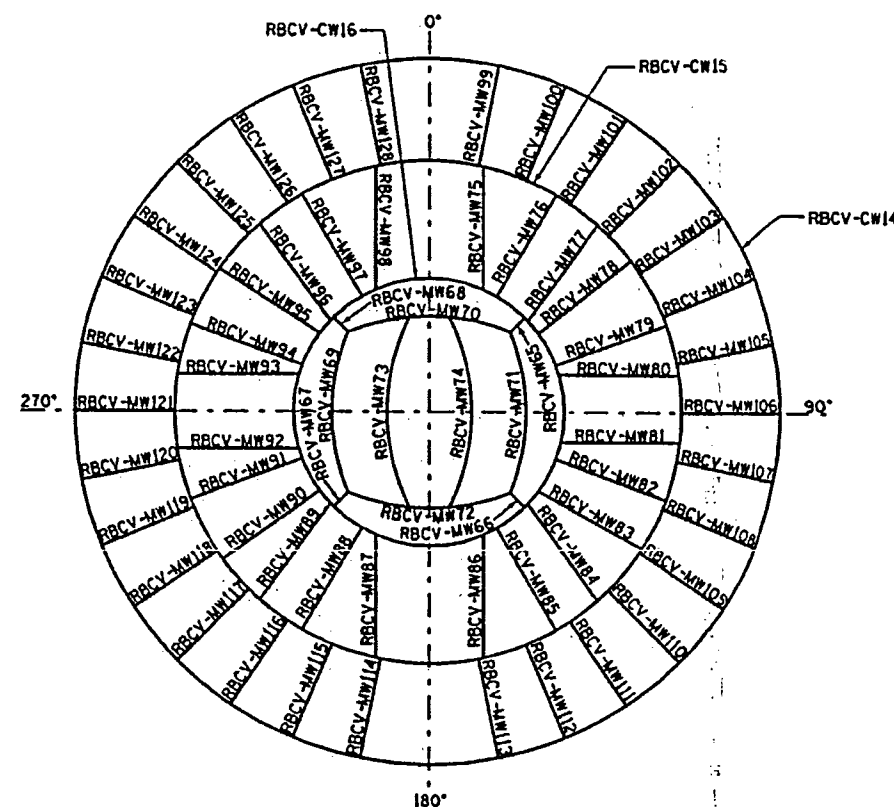
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VIEW A
BOTTOM HEAD MERIDIONAL WELDS
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REFERENCE M-1727 SH. 1 OF 34



VIEW C
TOP HEAD CONTAINMENT VIEW



VIEW B
TOP HEAD MERIDIONAL WELDS
FOR PLATE IDENTIFICATION
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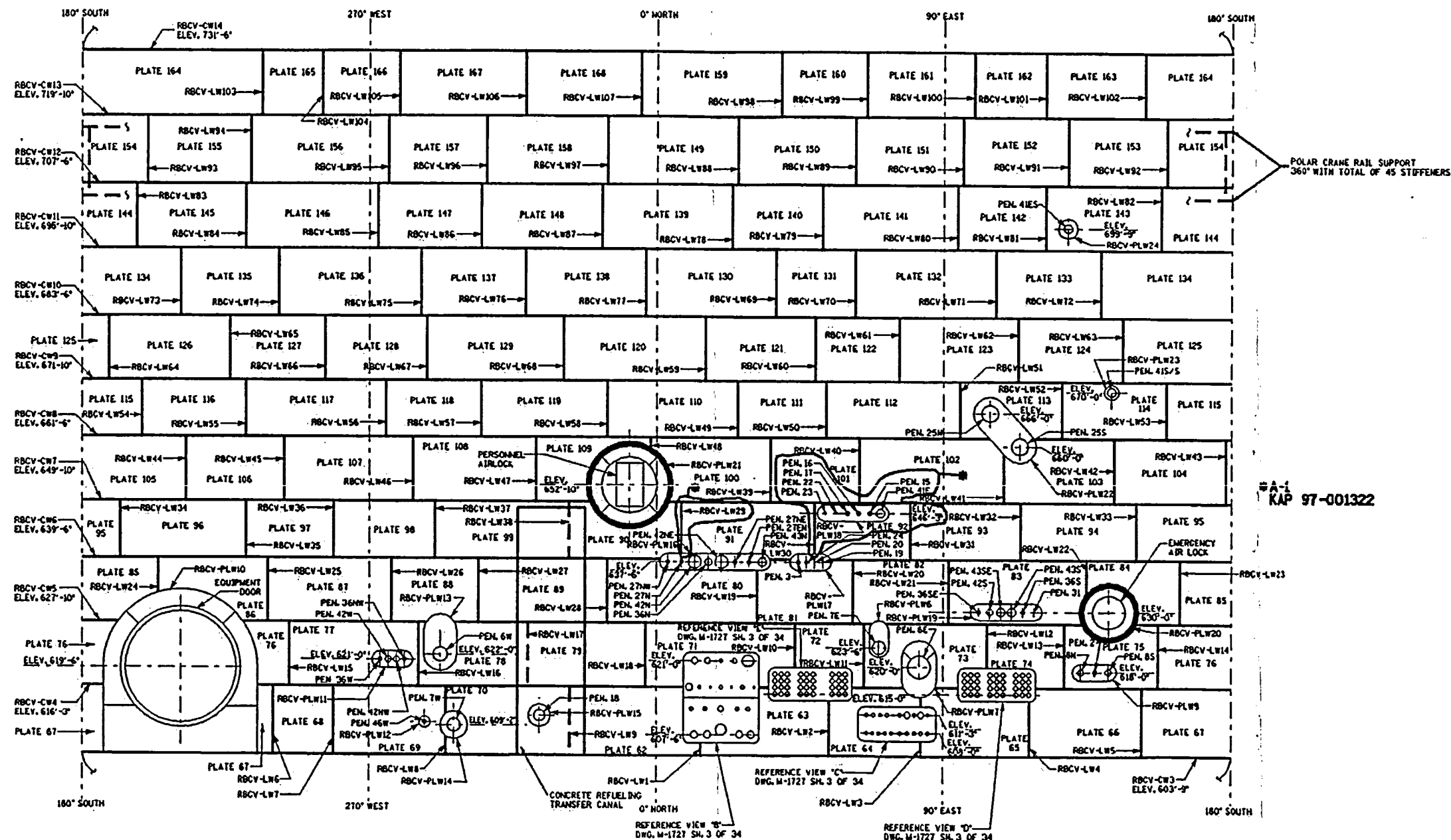
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| A | KAP 1322 COMPL. SEE REV. 0-1 FILMED: 10-12-99 |
| A-1 | KAP 97-001322 REVISED PLATE 91 AND 92 BY: SWJ 11-14-01 APP'D: FEB 11-15-01 |
| B | KAP 97-001322 COMPL. SEE REV. A-1 FILMED: 11-20-01 |

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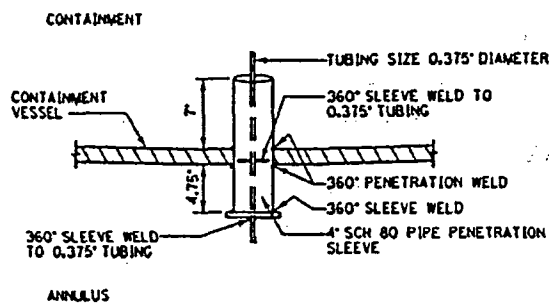
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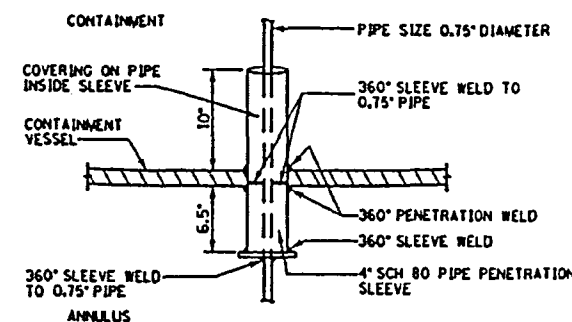
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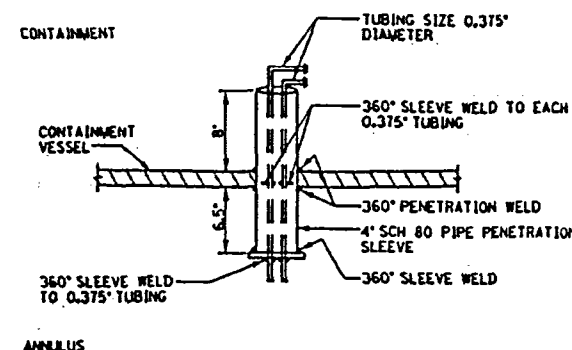
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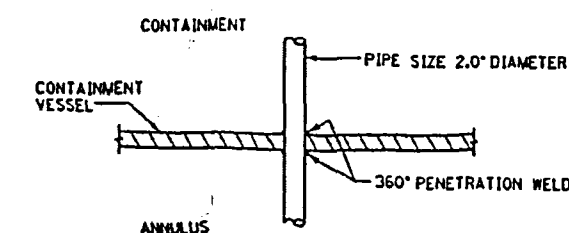
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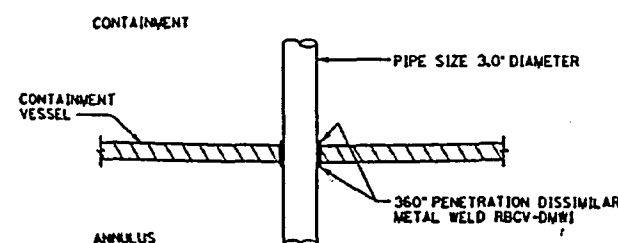
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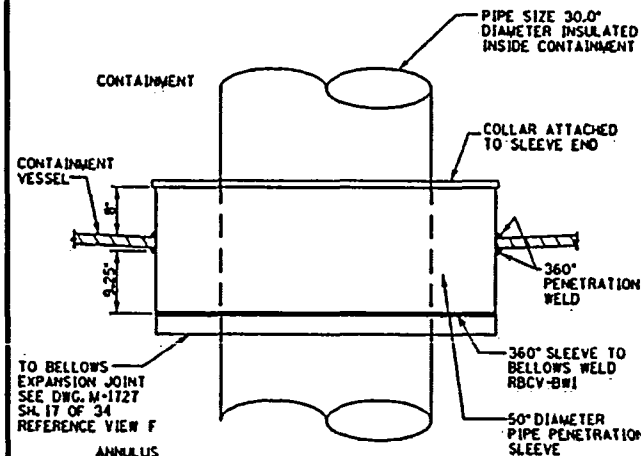
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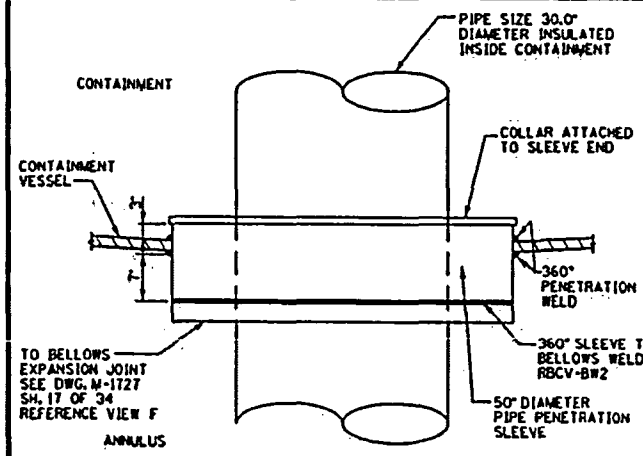
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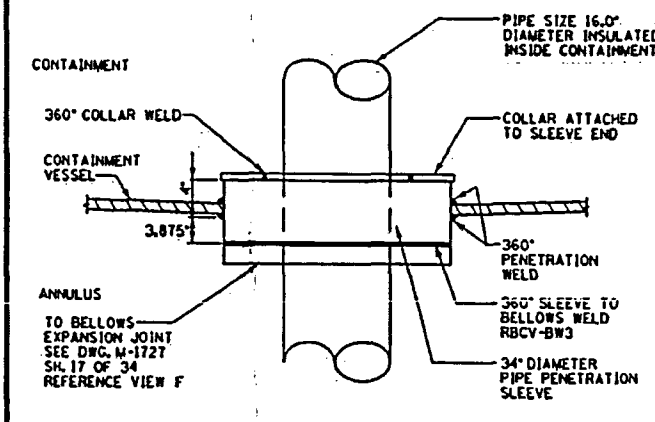
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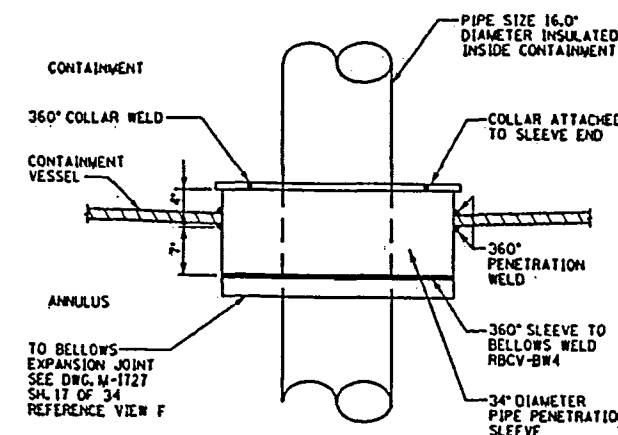
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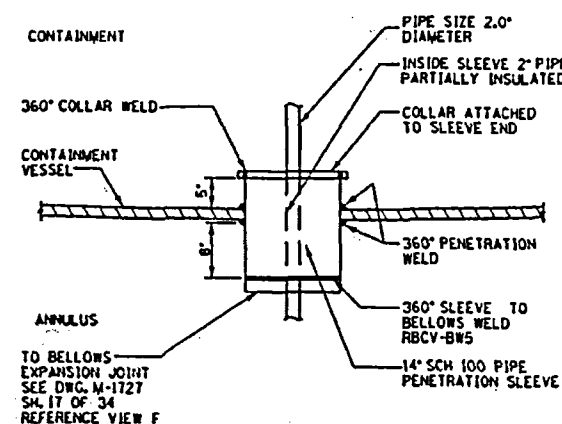
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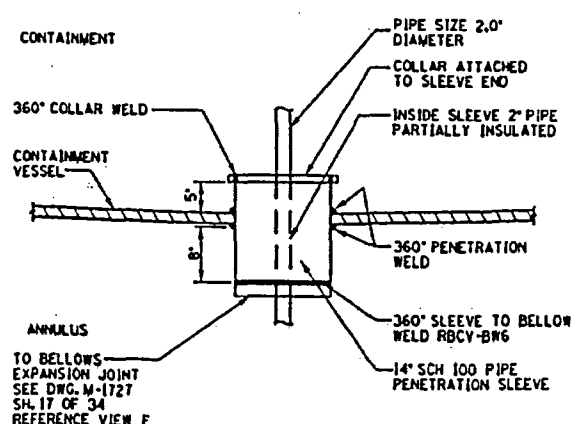
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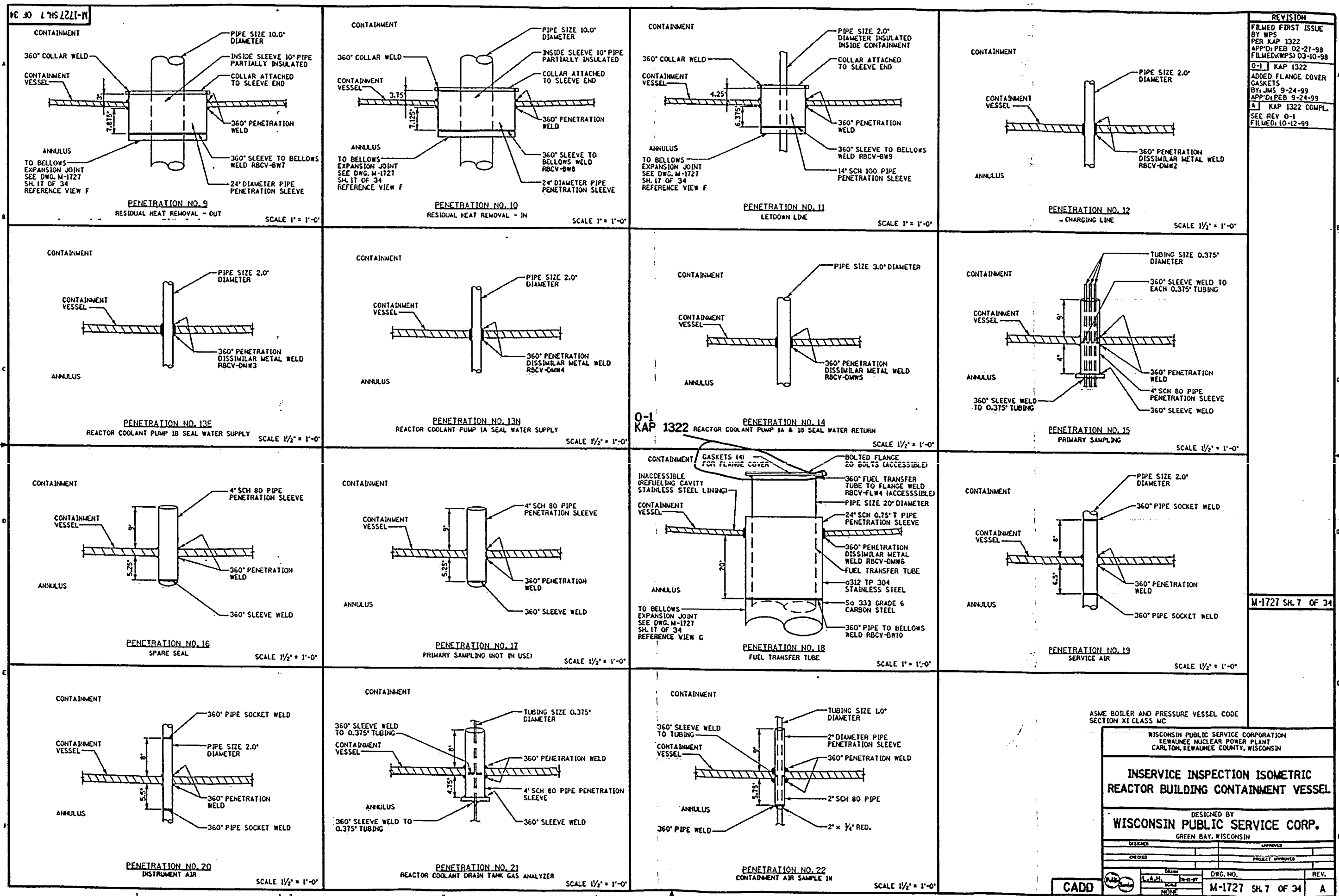
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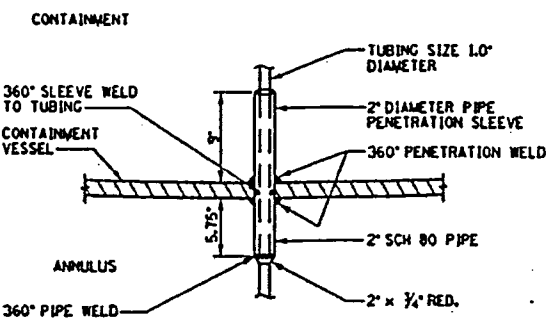
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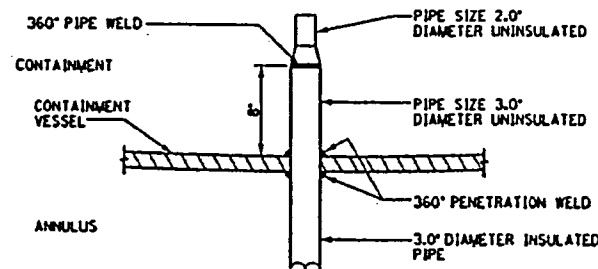


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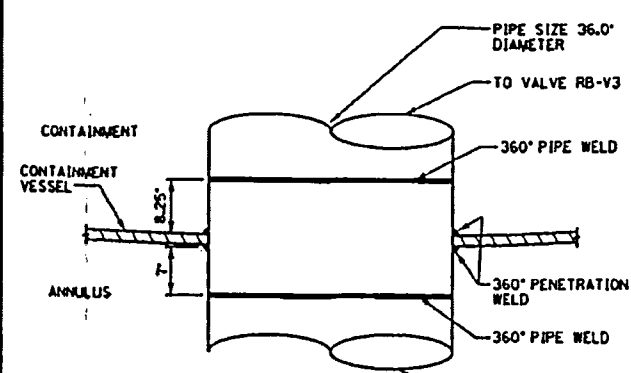
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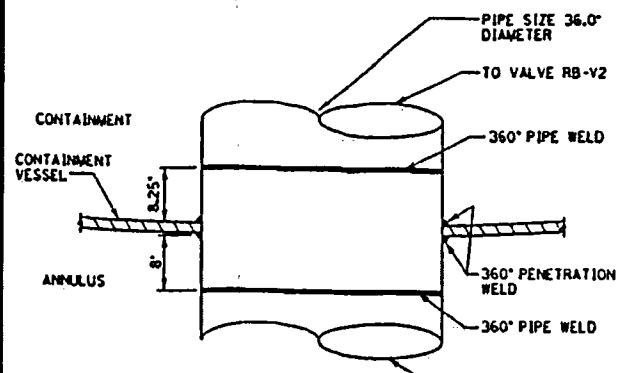
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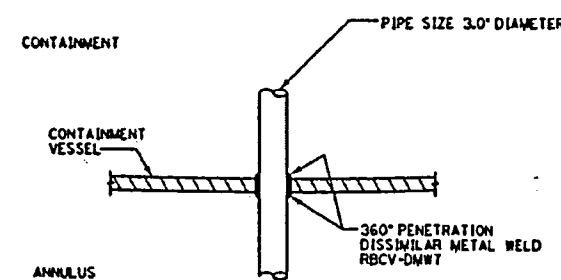
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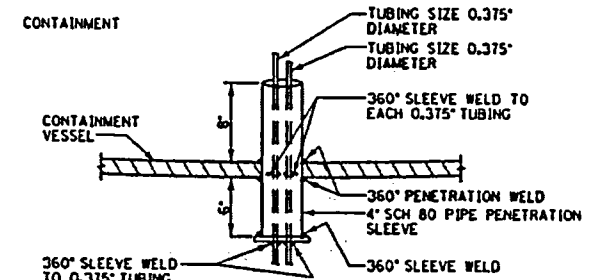
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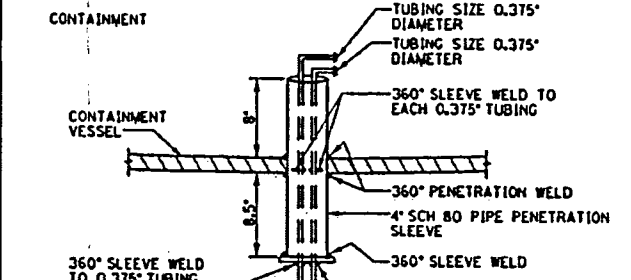
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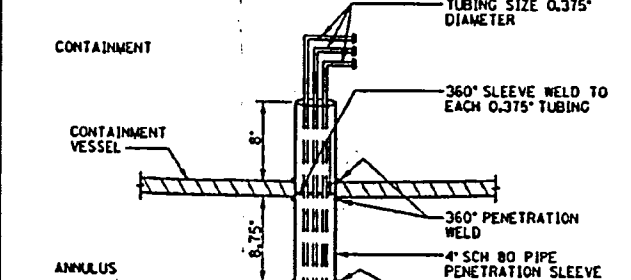
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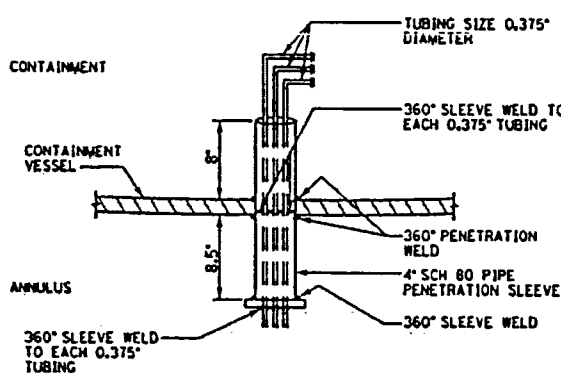
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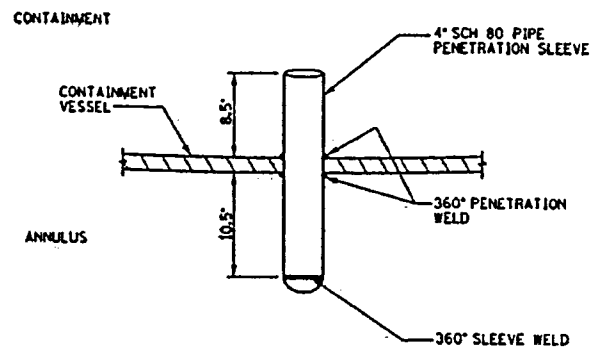
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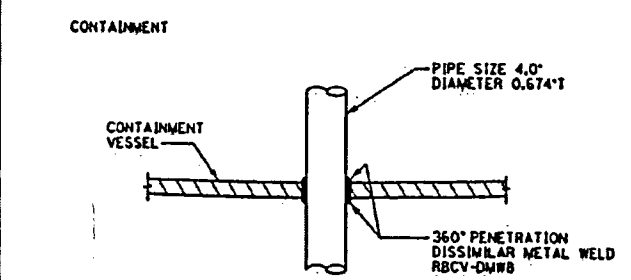
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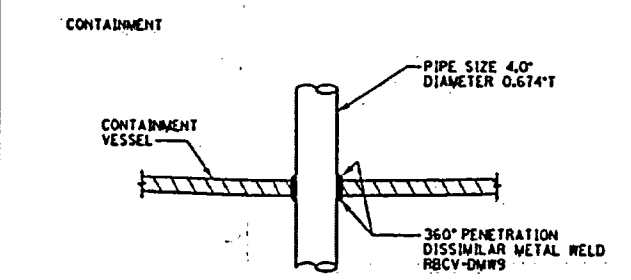
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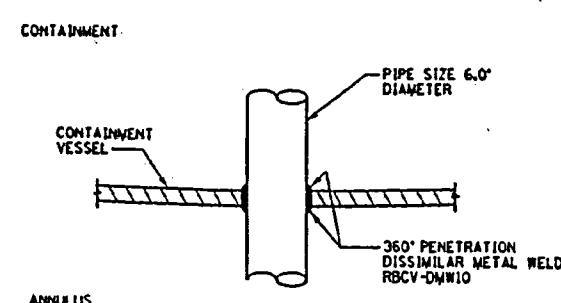
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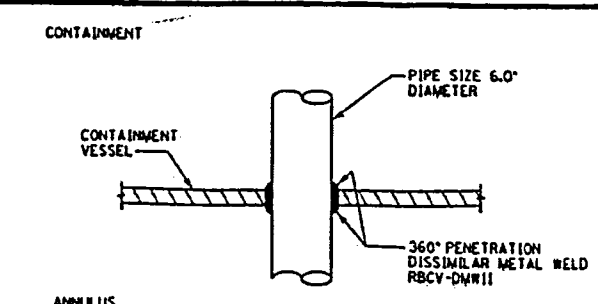
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SCALE 1 1/2\"/>



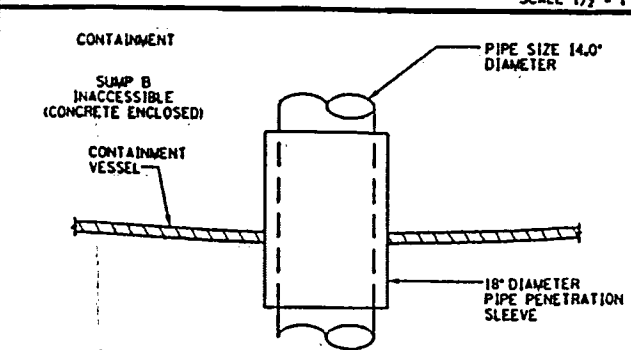
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SCALE 1 1/2\"/>



PENETRATION NO. 29N
INTERNAL CONTAINMENT SPRAY

SCALE 1 1/2\"/>



PENETRATION NO. 30E
CONTAINMENT SUMP B RECIRCULATION LINE

SCALE 1\"/>

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS NC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

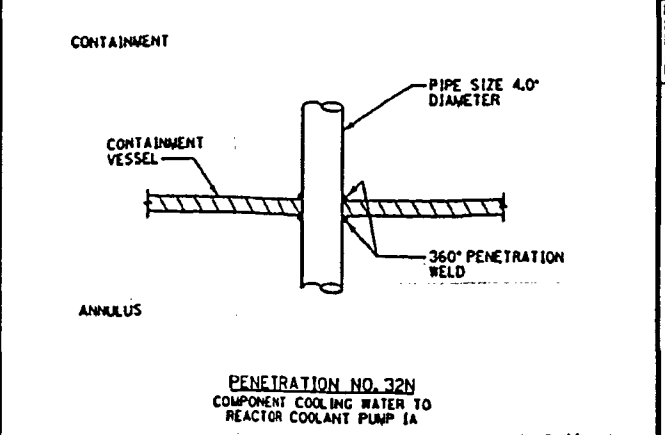
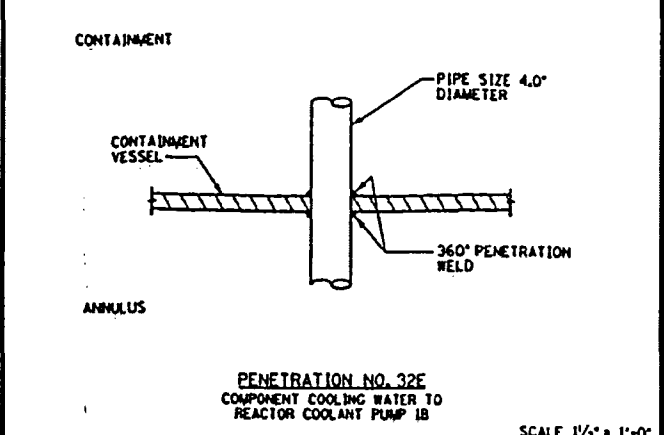
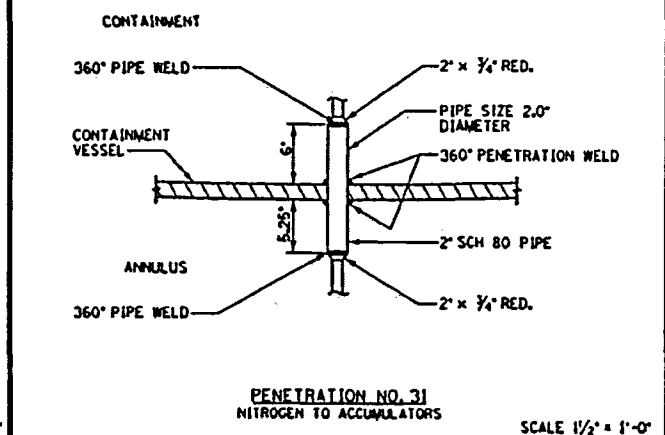
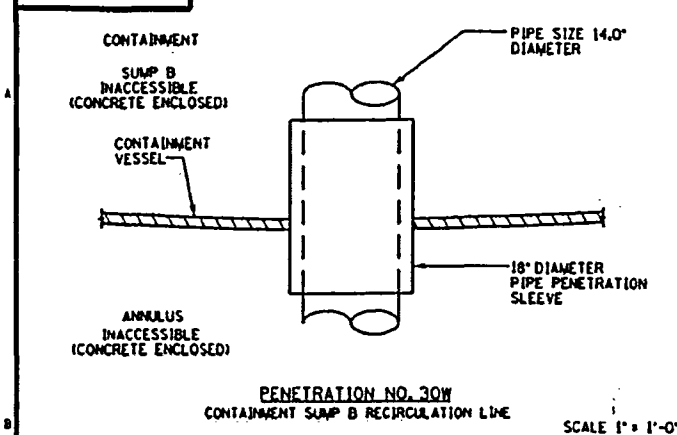
DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98

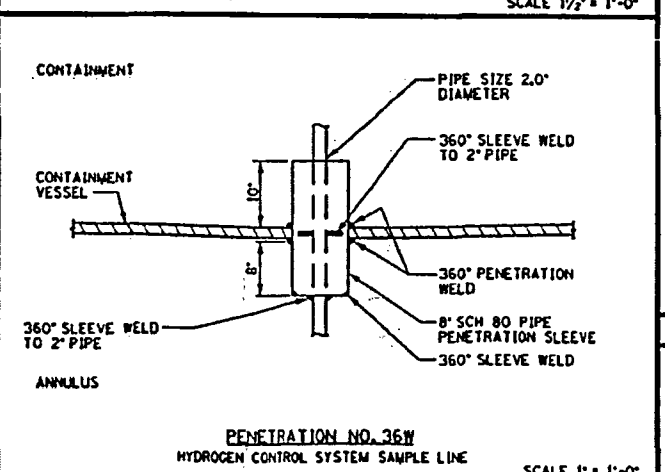
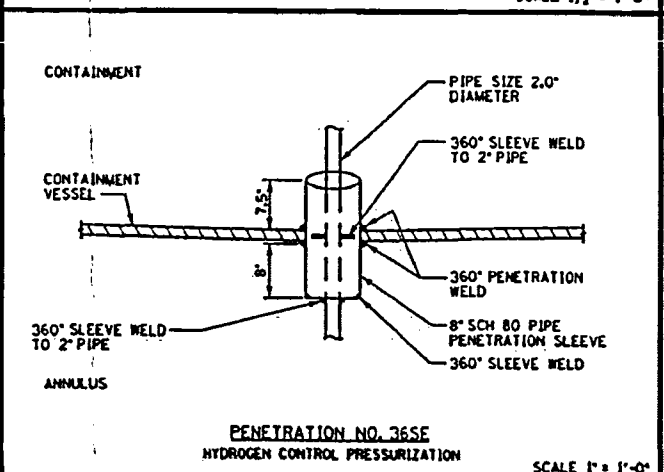
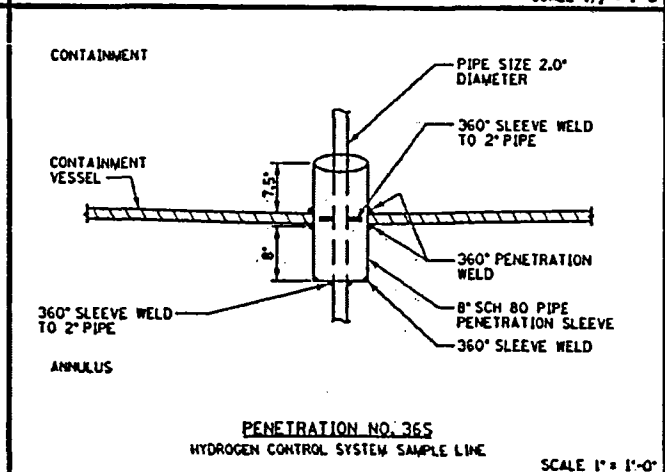
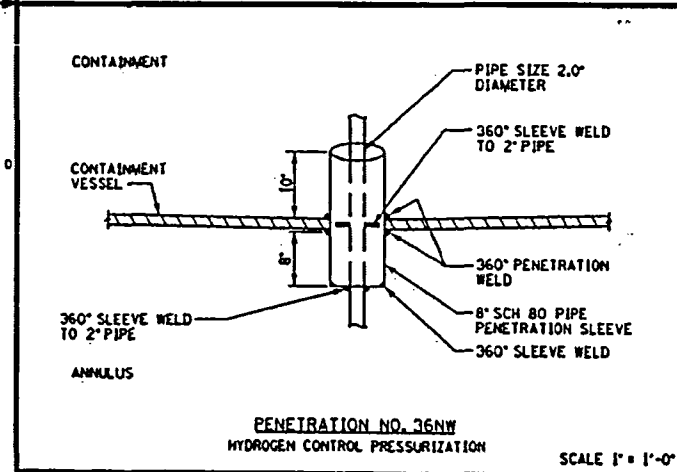
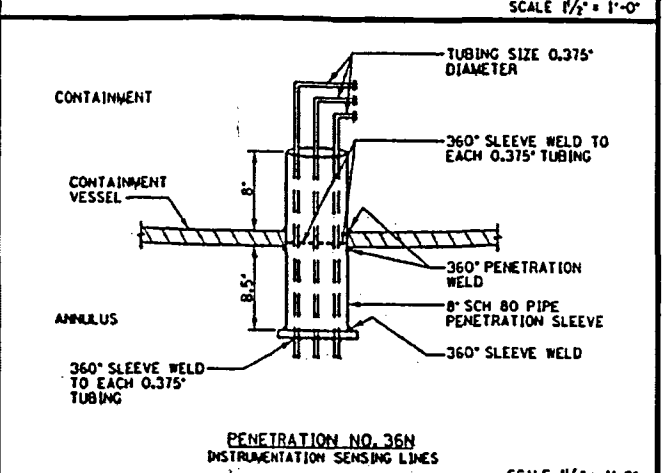
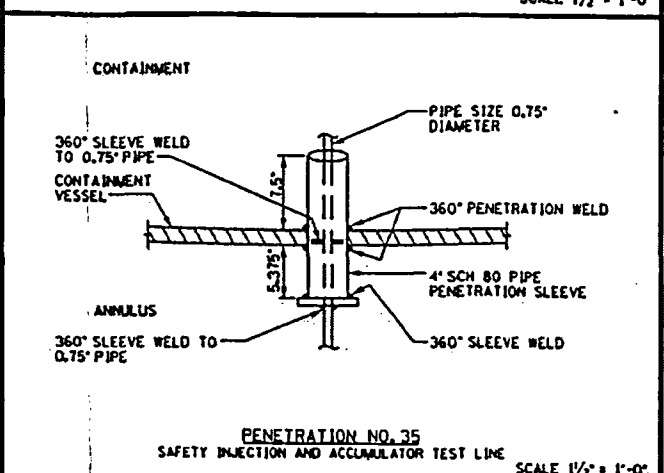
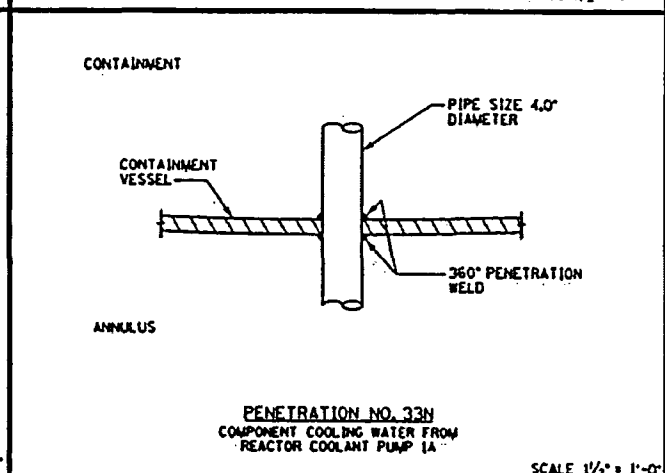
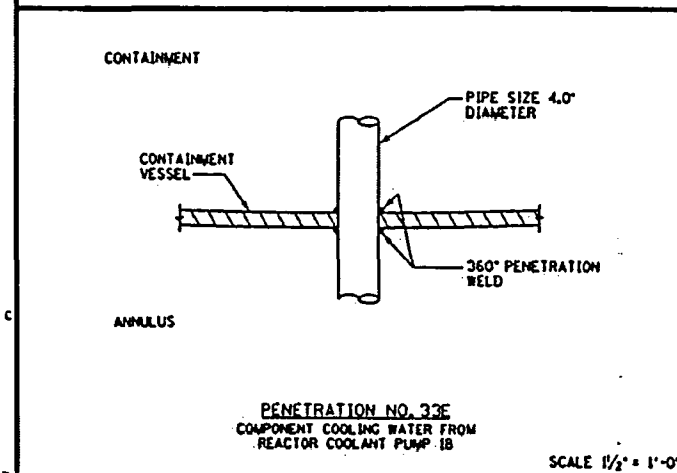
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WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN
M-1727 SH. 8 OF 34 (-)

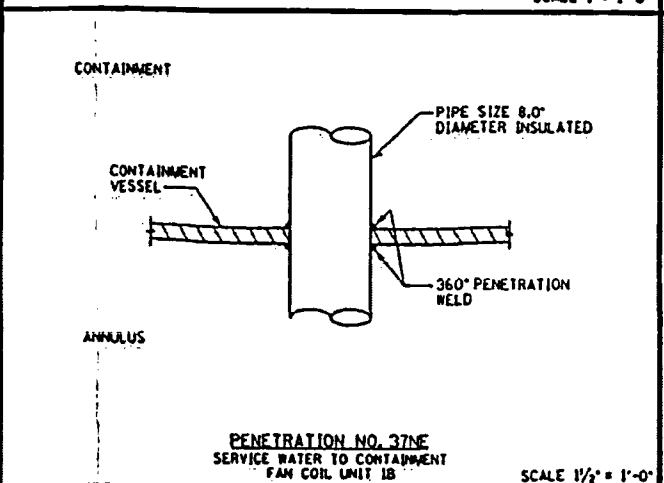
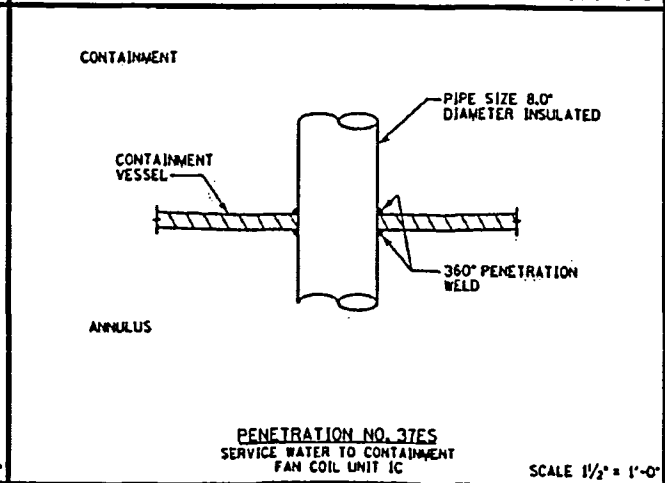
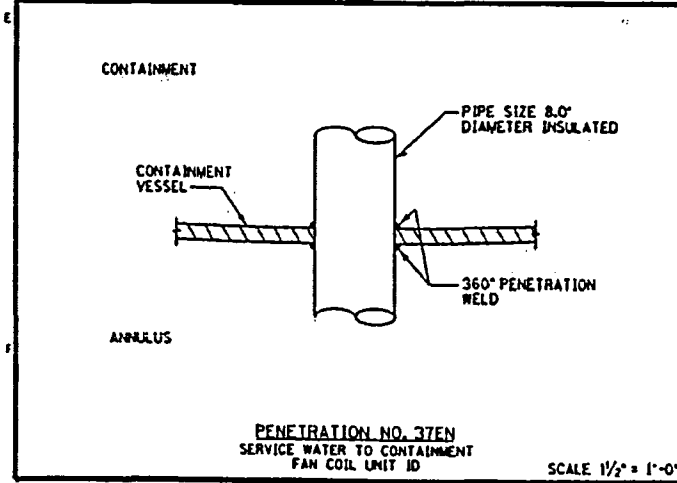
PE 30 67HS 1221-11



REVISION
FILMED FIRST ISSUE
BY NPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: NPS 03-10-98



M-1727 SH. 9 OF 34



ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL**

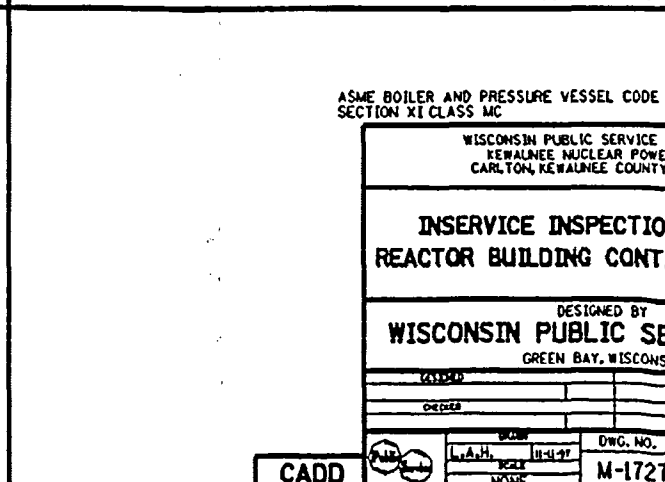
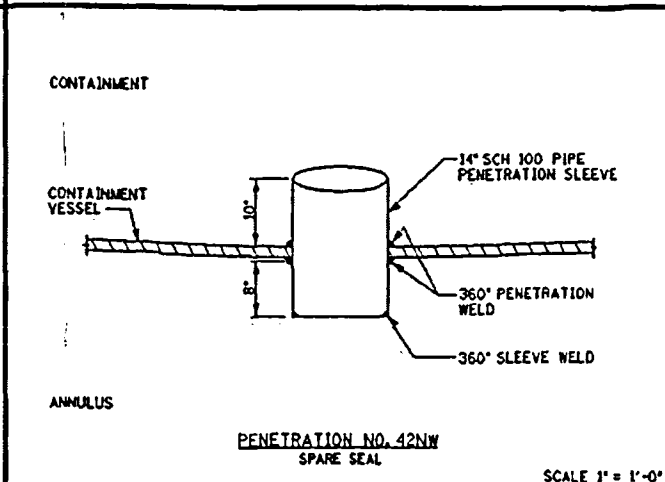
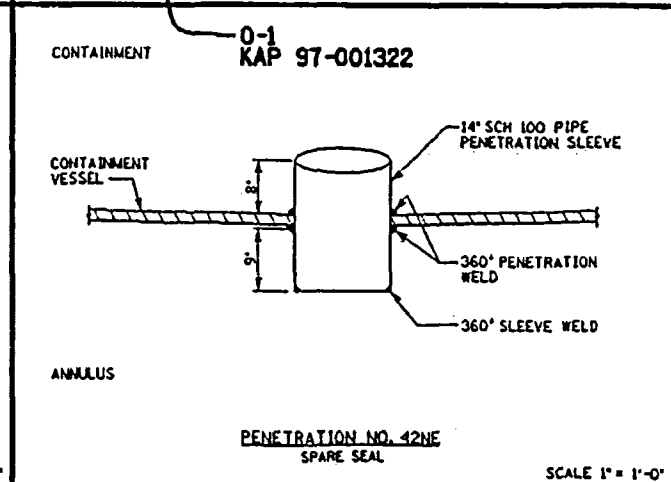
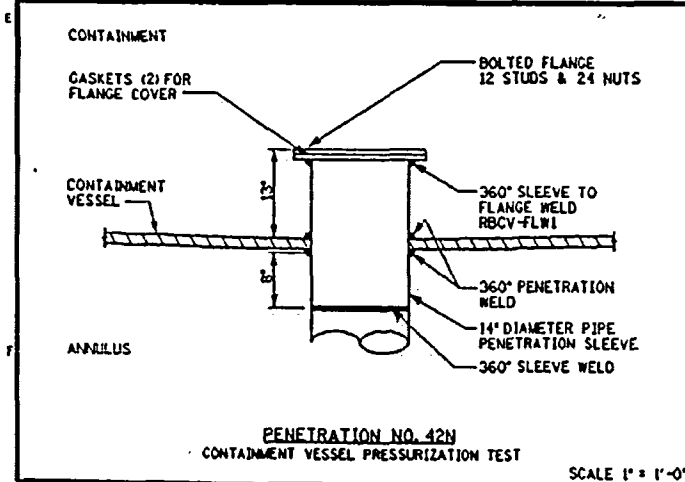
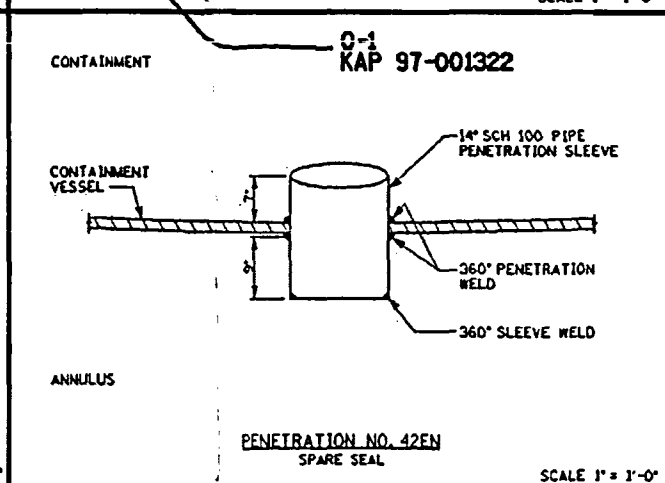
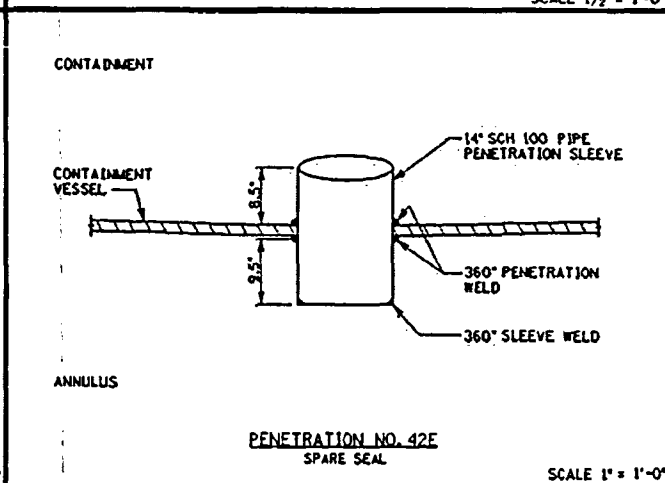
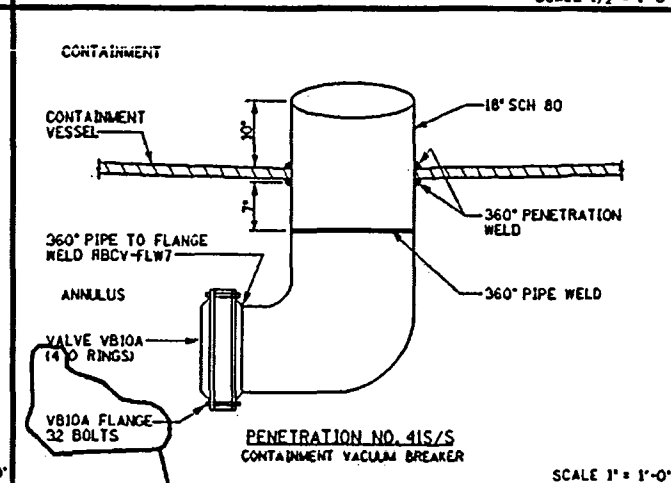
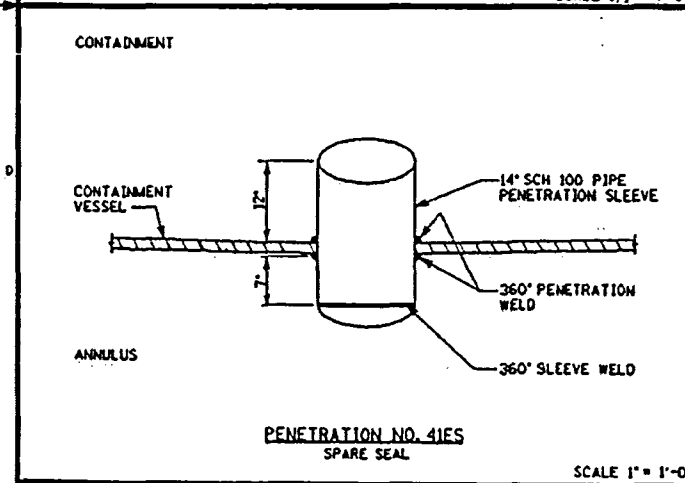
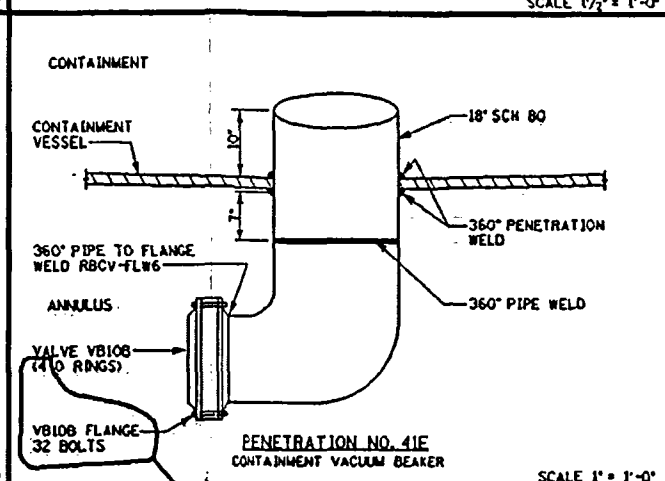
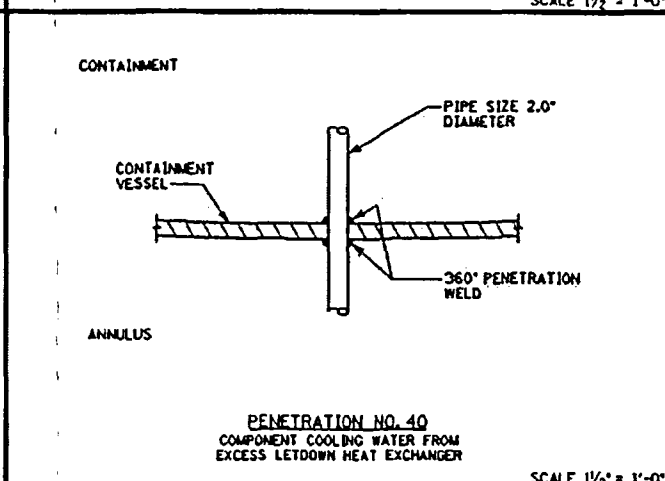
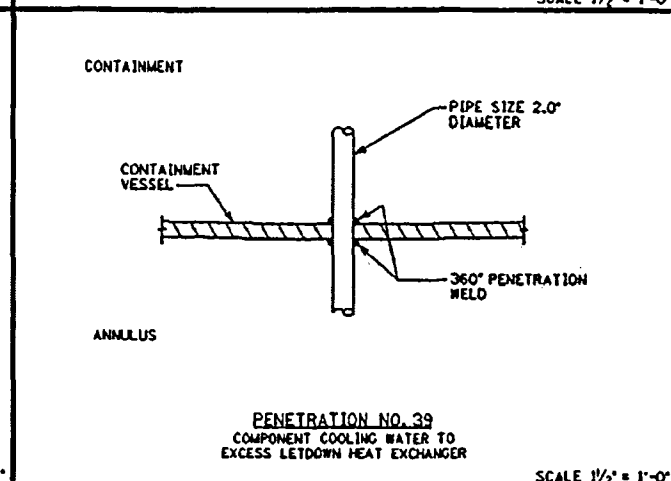
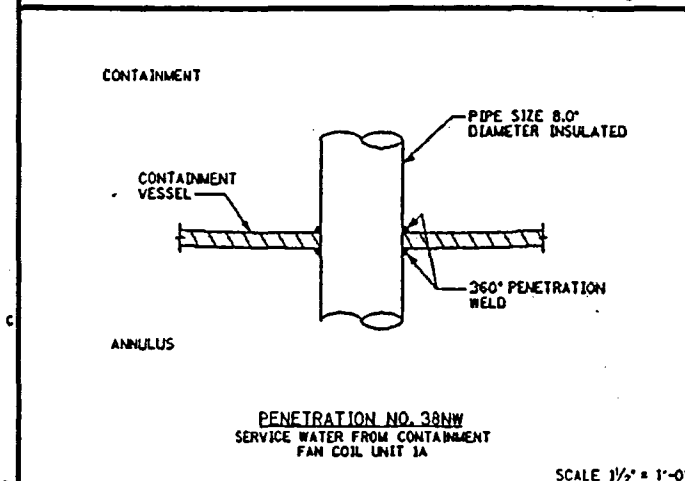
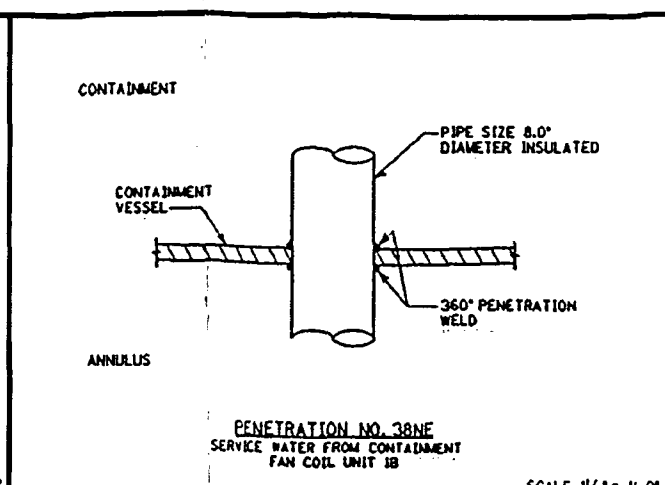
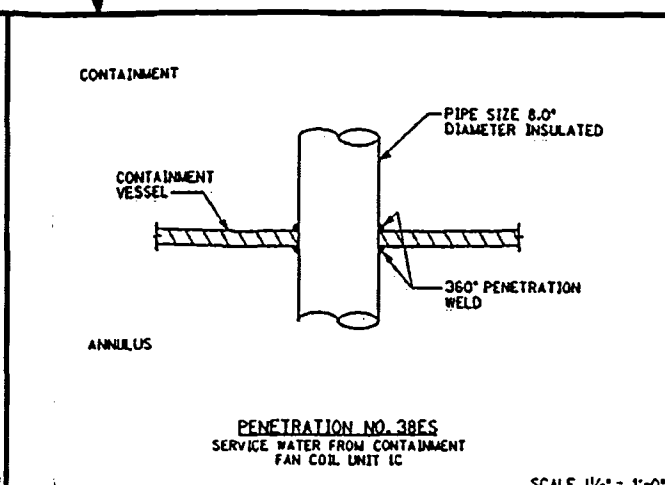
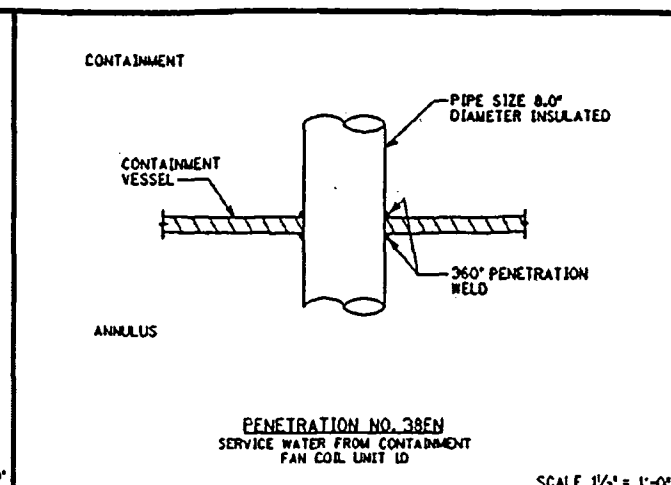
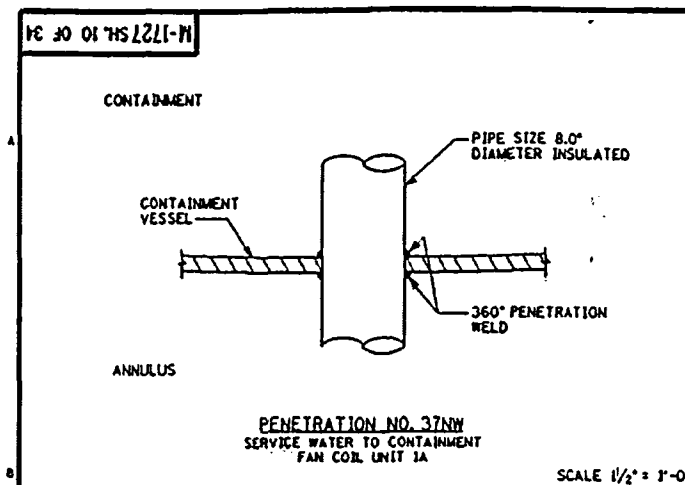
DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|----------|----------|--------|------|
| DESIGNED | DATE | BY | REV. |
| 12/21/97 | 12/21/97 | J.A.H. | 1 |
| CHECKED | DATE | BY | REV. |
| 12/21/97 | 12/21/97 | J.A.H. | 1 |

CADD

M-1727 SH. 9 OF 34 (-)

PC 30 OF 1727 SH. 10 OF 34



| REVISION | |
|----------|--|
| 1 | FILED FIRST ISSUE BY WPS PER KAP 1322 APP'D FEB 02-27-98 FILED WPS 03-10-98 |
| 2 | KAP 97-001322 REVISED PENETRATION 41E & 41S/S BY SMJ 11-14-01 APP'D FEB 11-15-01 |
| 3 | KAP 97-001322 COMPL. SEE REV. 0-1, FILED WPS 11-20-01 |

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ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

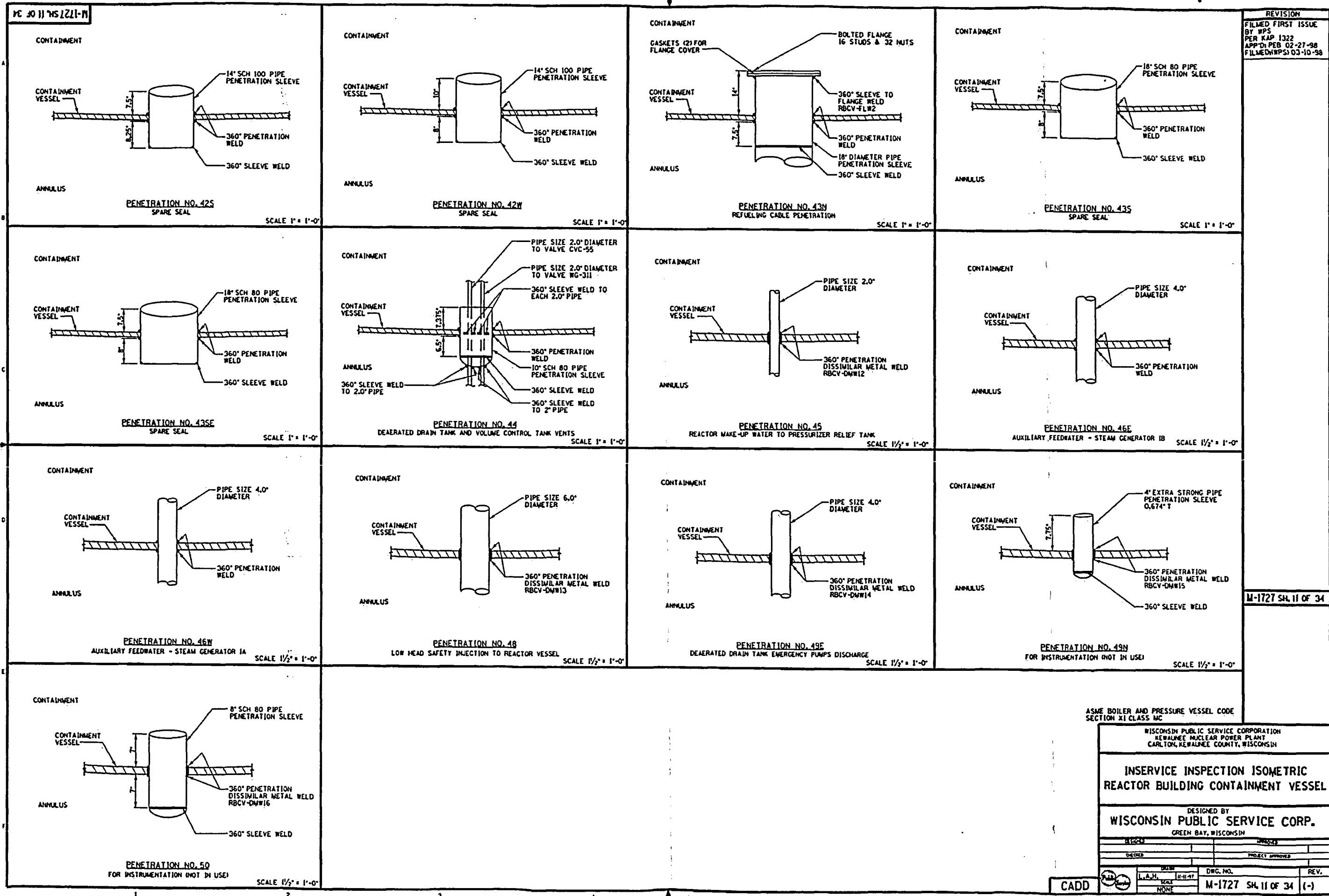
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REACTOR BUILDING CONTAINMENT VESSEL

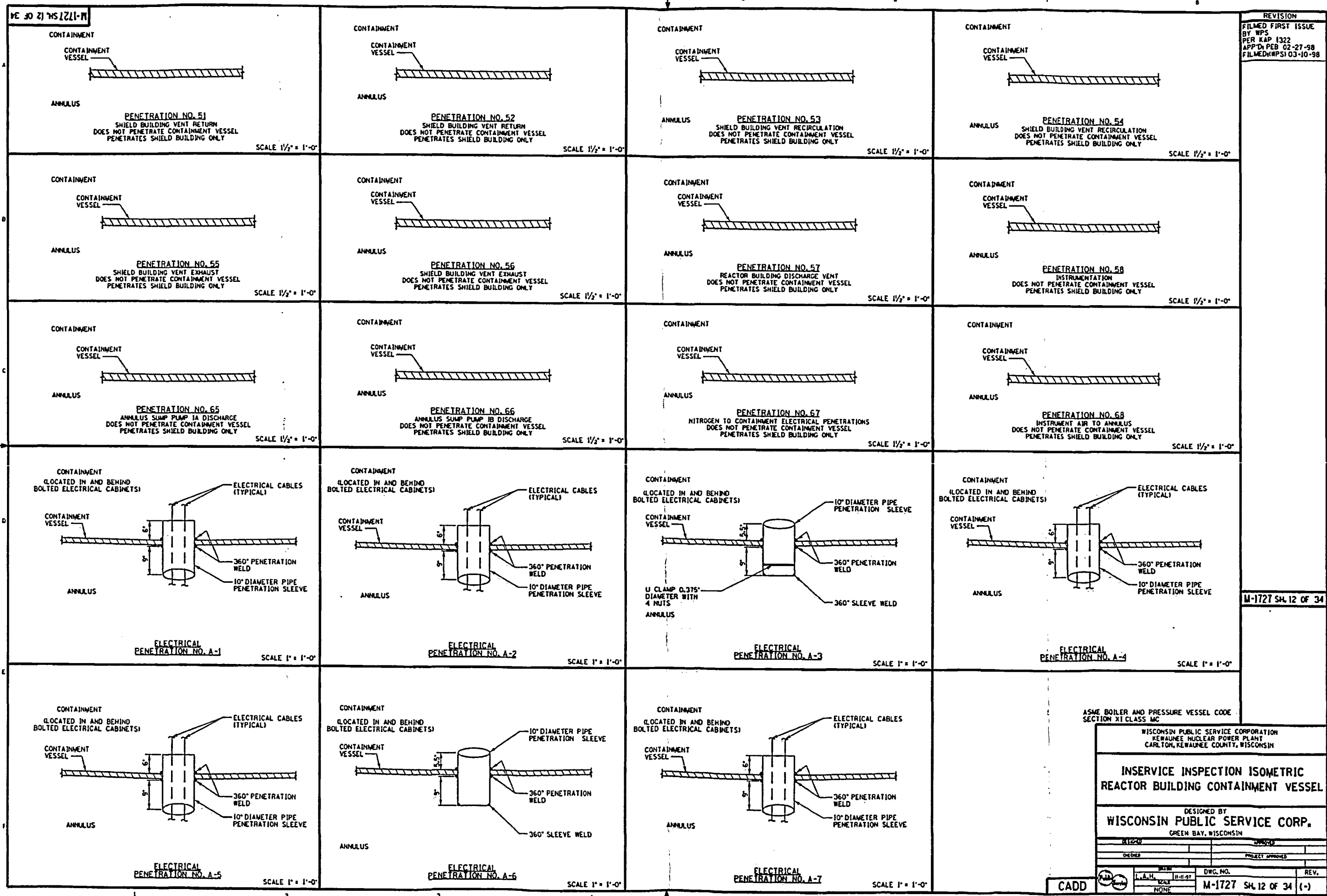
DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| DATE | BY | CHKD. | APP'D. |
|----------|-----|----------|--------|
| 11-14-01 | SMJ | 11-14-01 | SMJ |
| 11-14-01 | SMJ | 11-14-01 | SMJ |
| 11-14-01 | SMJ | 11-14-01 | SMJ |

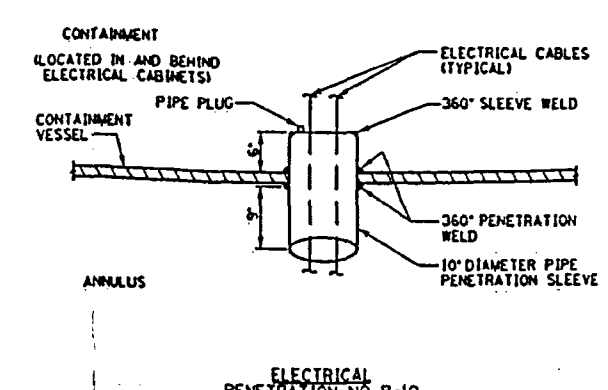
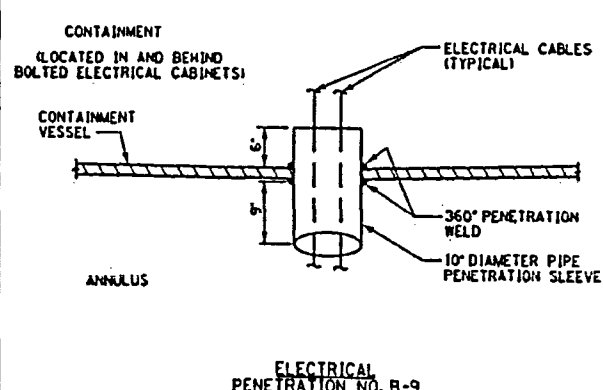
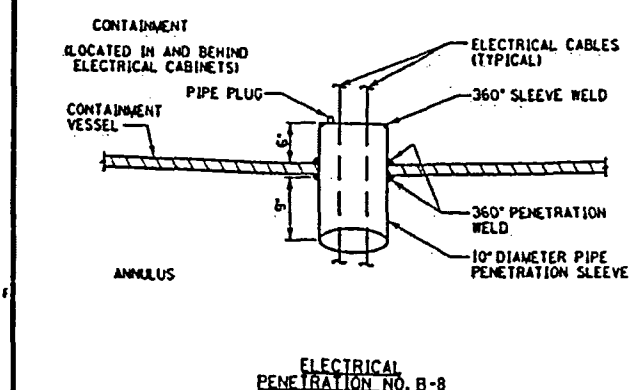
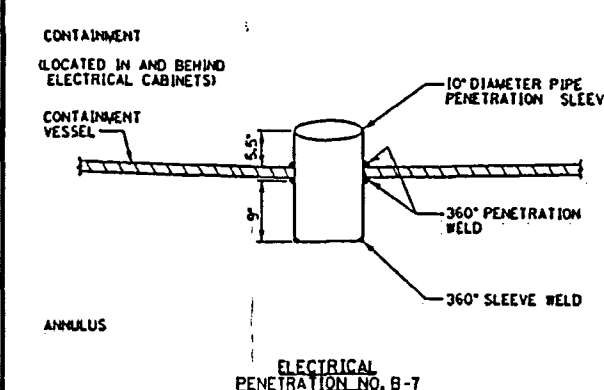
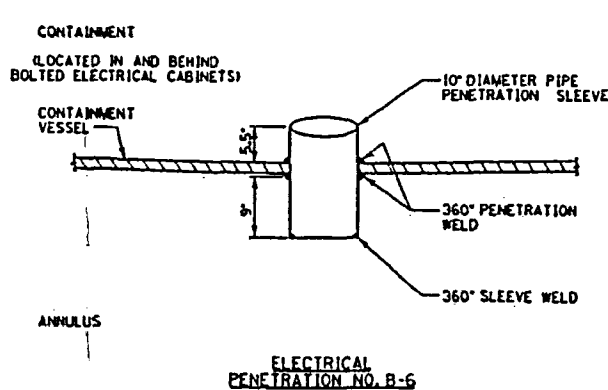
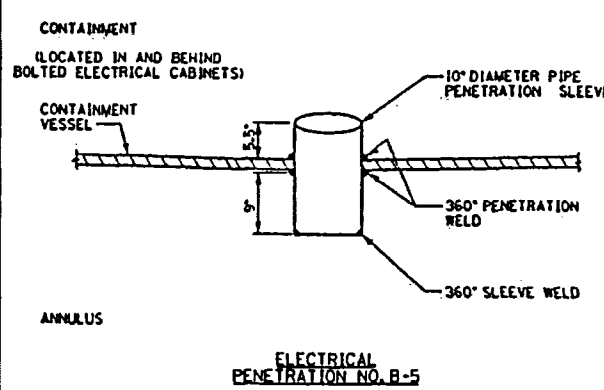
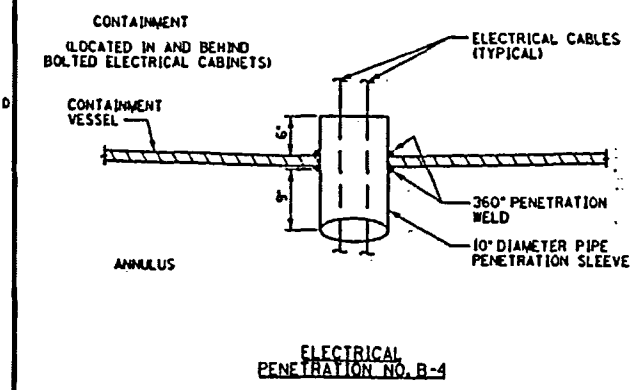
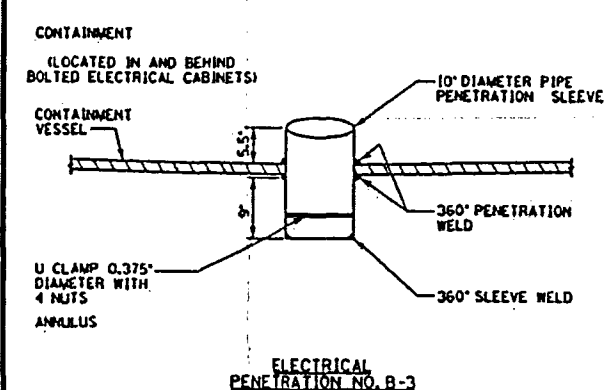
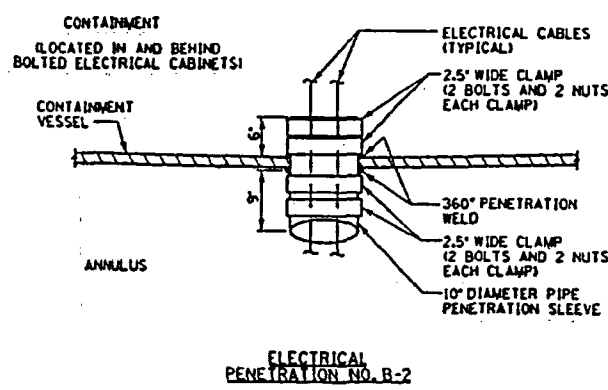
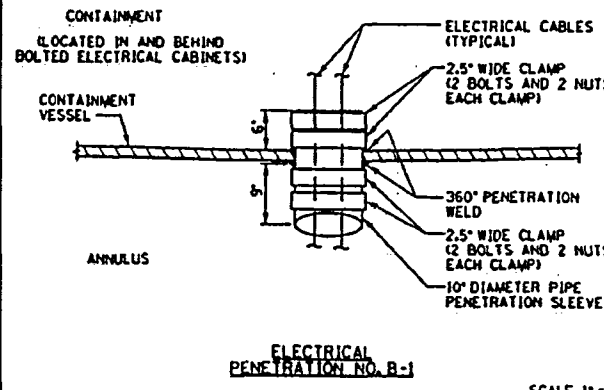
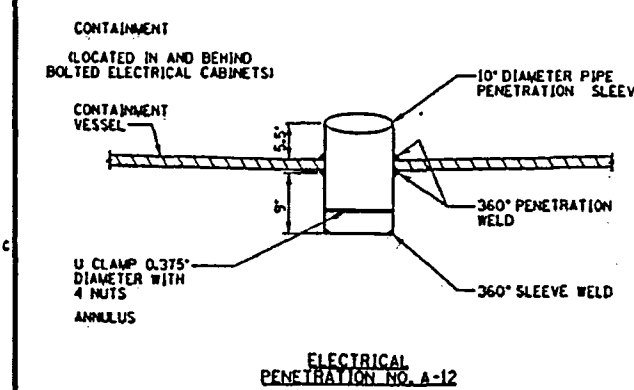
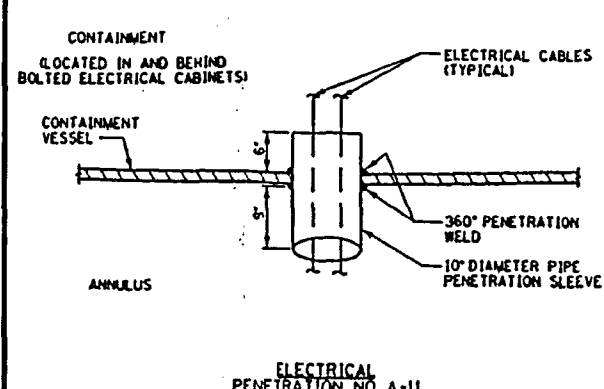
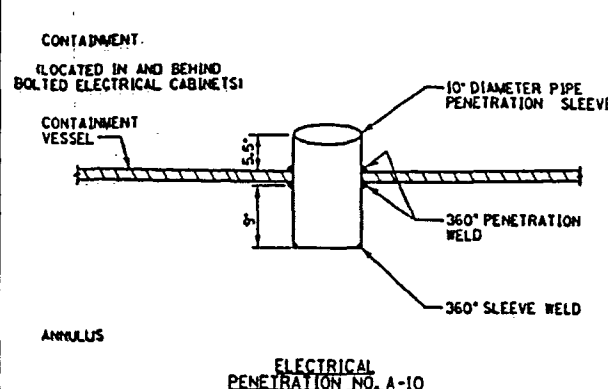
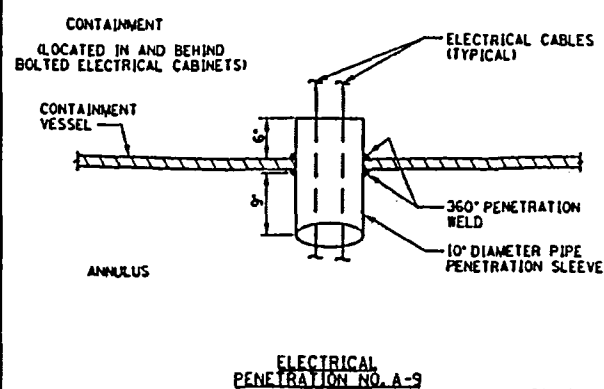
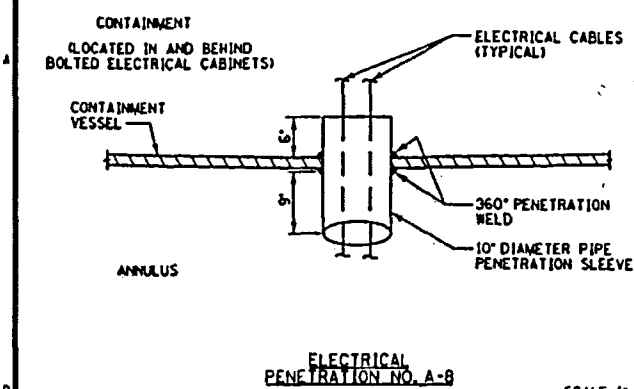
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DWG. NO. M-1727 SH. 10 OF 34
REV. A





PC 30 C) 751211-M



REVISION
FILMED FIRST ISSUE
BY WPS
APP'D: PEB 02-27-98
FILMED: WPS 03-10-98

M-1727 SH. 13 OF 34

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

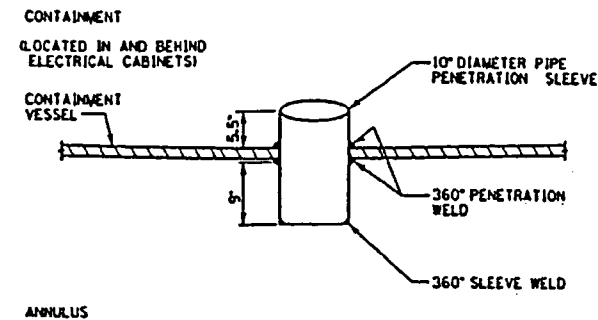
REVISIONS
DATE BY
11-11-97 L.A.H. SCALE NONE
PROJECT APPROVED

DWG. NO. M-1727 SH. 13 OF 34 (-)

CADD

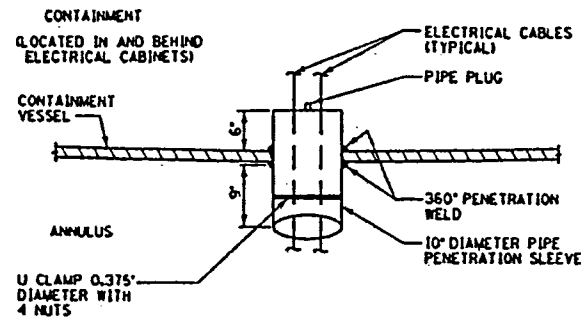
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REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98



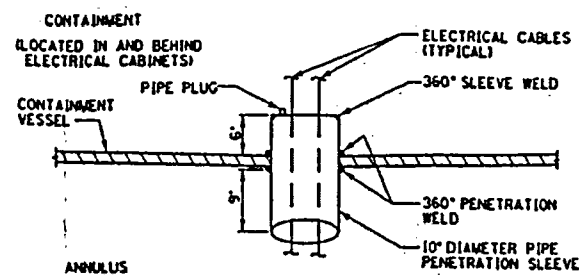
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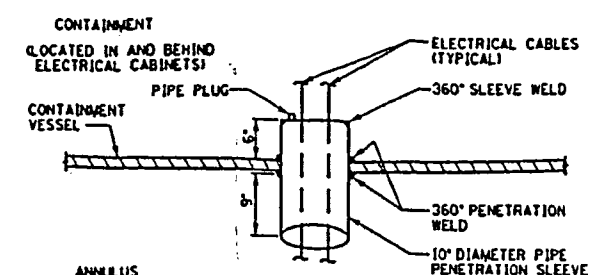
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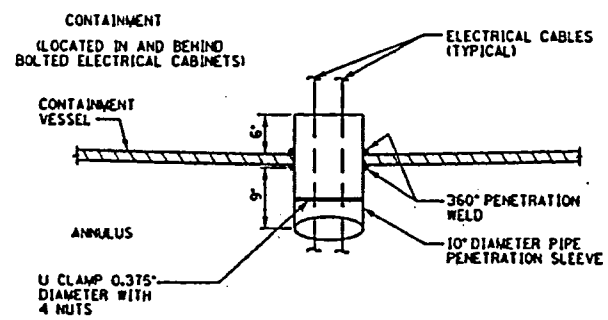
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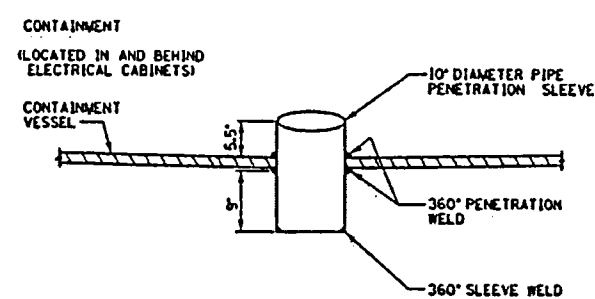
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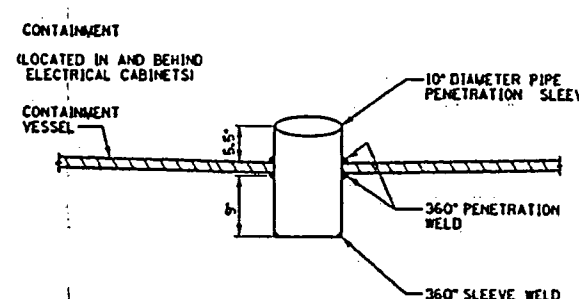
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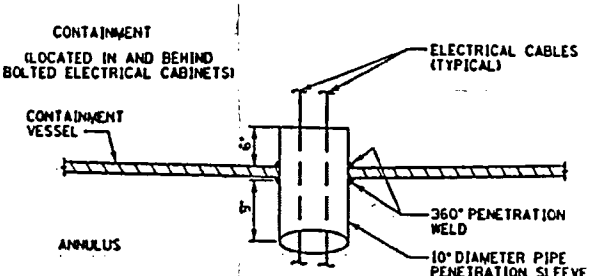
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PENETRATION NO. C-4

SCALE 1" = 1'-0"



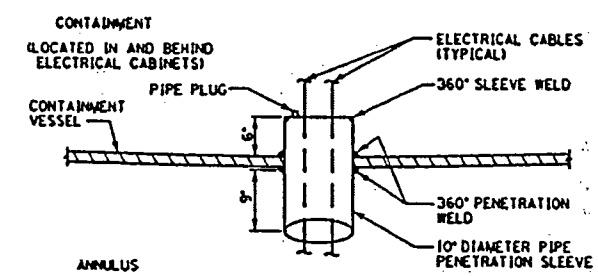
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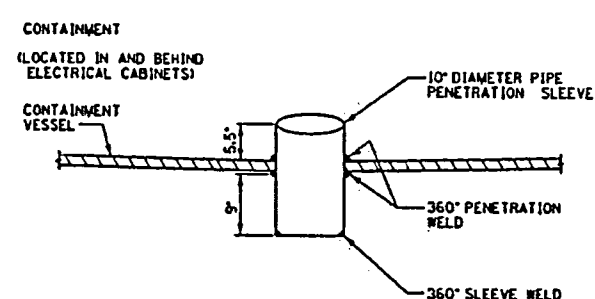
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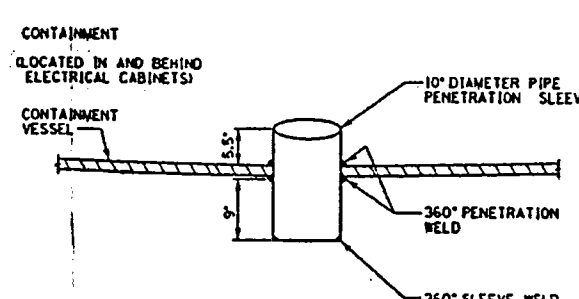
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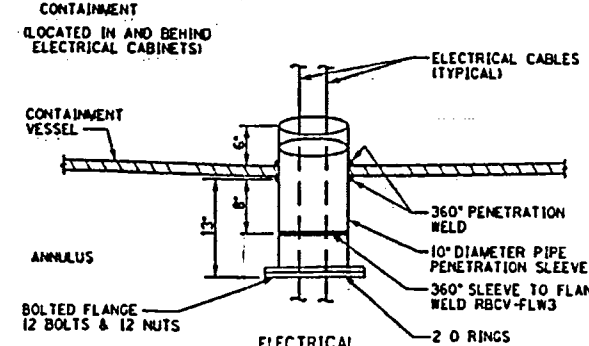
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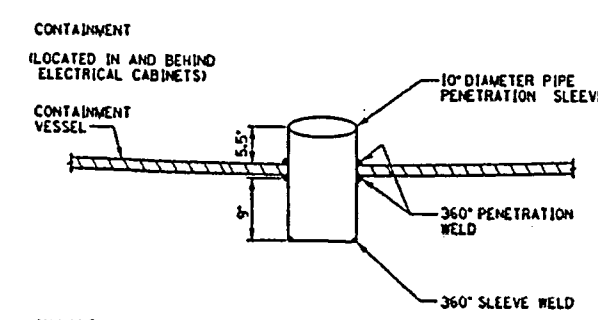
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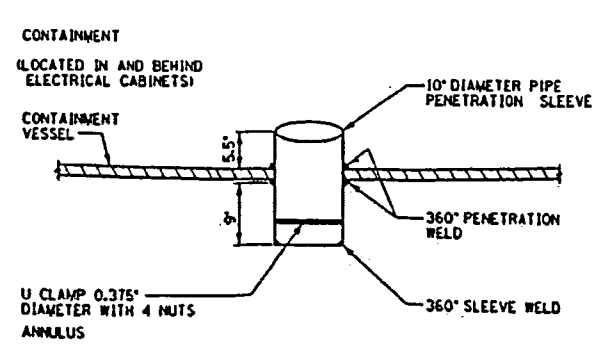
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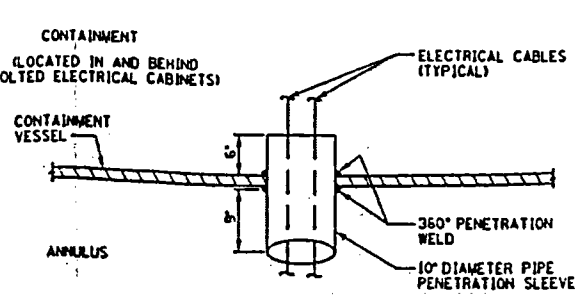
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SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. C-12

SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. D-1

SCALE 1" = 1'-0"

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

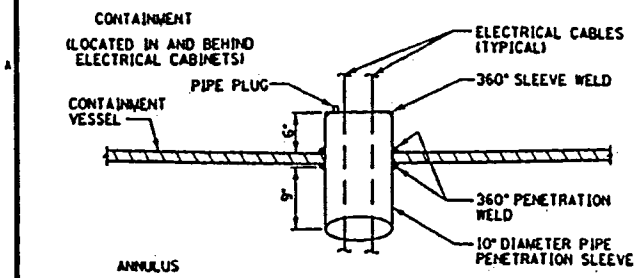
DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

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| DESIGNED | APPROVED |
| CHECKED | PROJECT APPROVED |
| DATE | REV. |
| 11-11-91 | |
| DWG. NO. | |
| M-1727 SH. 14 OF 34 (-) | |

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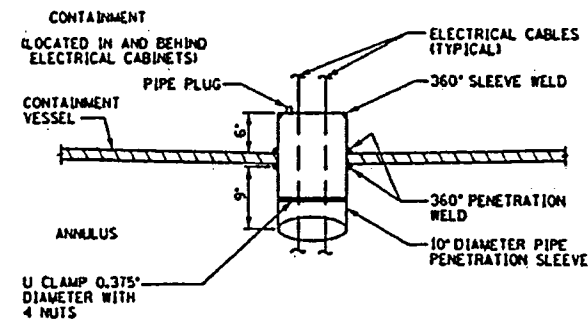
M-1727 SH. 14 OF 34

PC 30 51 745 1727-SH-15



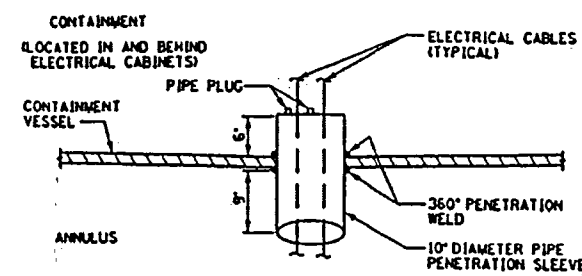
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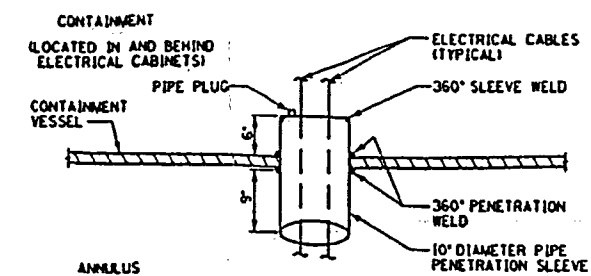
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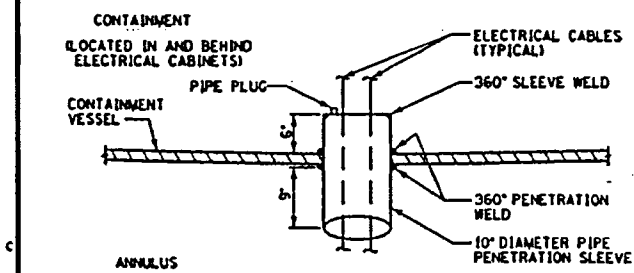
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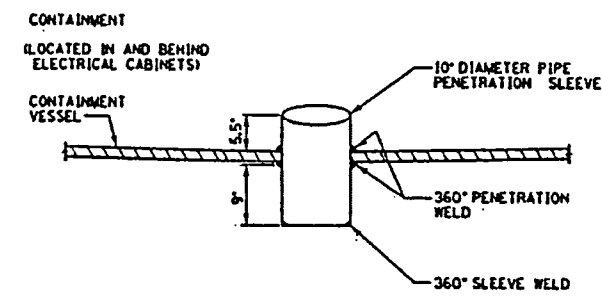
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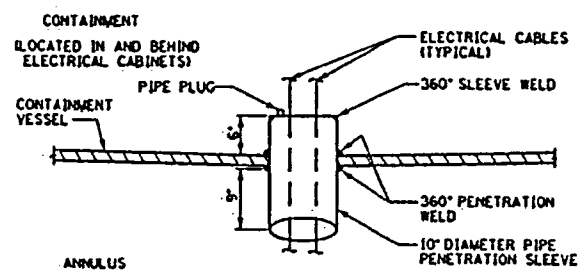
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SCALE 1" = 1'-0"



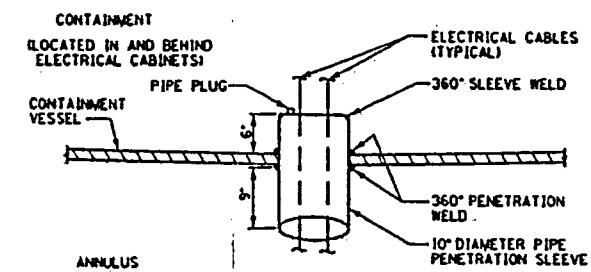
ELECTRICAL
PENETRATION NO. D-7

SCALE 1" = 1'-0"



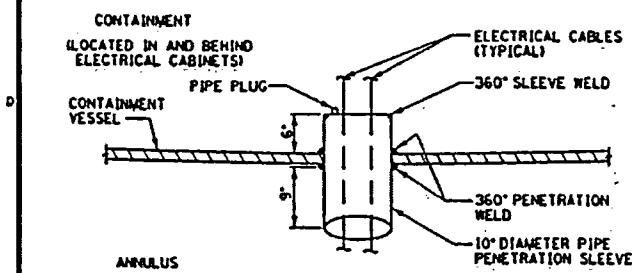
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PENETRATION NO. D-8

SCALE 1" = 1'-0"



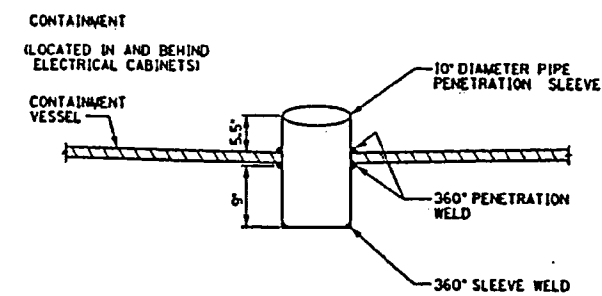
ELECTRICAL
PENETRATION NO. D-9

SCALE 1" = 1'-0"



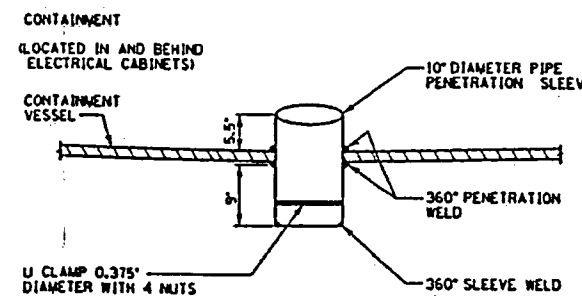
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PENETRATION NO. D-10

SCALE 1" = 1'-0"



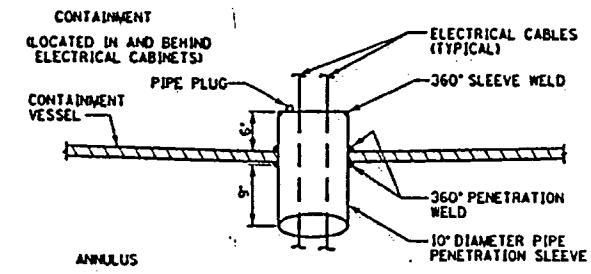
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PENETRATION NO. D-11

SCALE 1" = 1'-0"



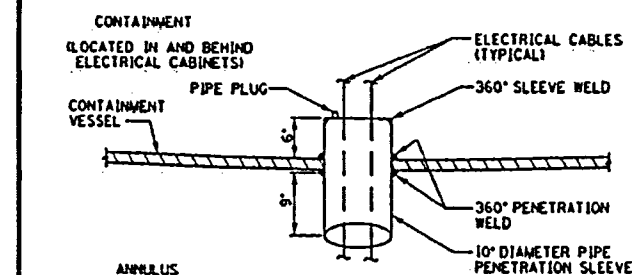
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PENETRATION NO. D-12

SCALE 1" = 1'-0"



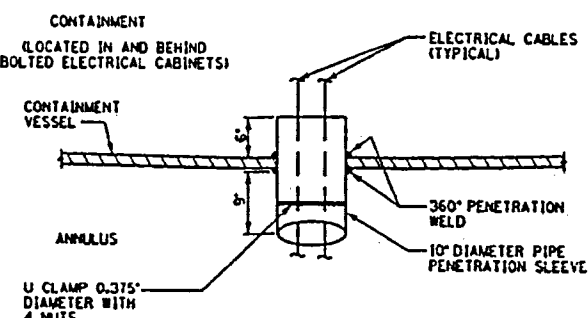
ELECTRICAL
PENETRATION NO. E-1

SCALE 1" = 1'-0"



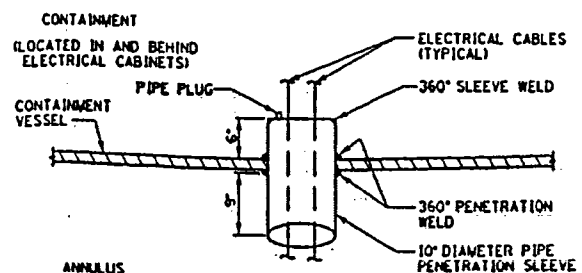
ELECTRICAL
PENETRATION NO. E-2

SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. E-3

SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. E-4

SCALE 1" = 1'-0"

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: PEB 02-27-98
FILMED WPS 03-10-98

M-1727 SH. 15 OF 34

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

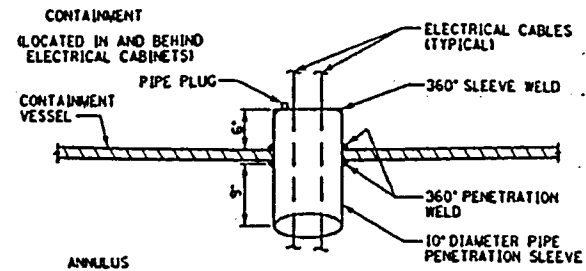
DATE: 11-11-97
DRAWN: J. J. H.
CHECKED: J. J. H.
PROJECT APPROVED: J. J. H.

CADD

DWG. NO. M-1727 SH. 15 OF 34
REV. (-)

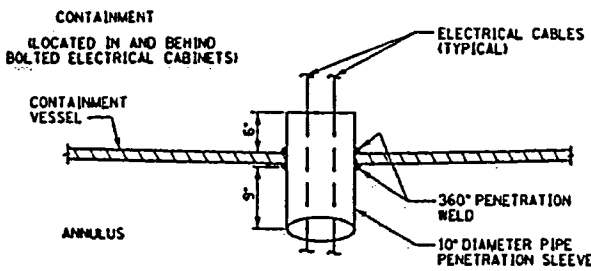
MC 30 91 75512711-M

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 103-10-98



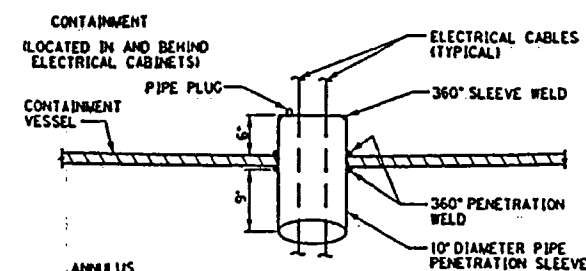
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PENETRATION NO. E-5

SCALE 1" = 1'-0"



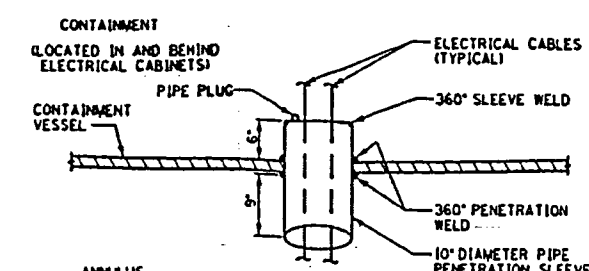
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PENETRATION NO. E-6

SCALE 1" = 1'-0"



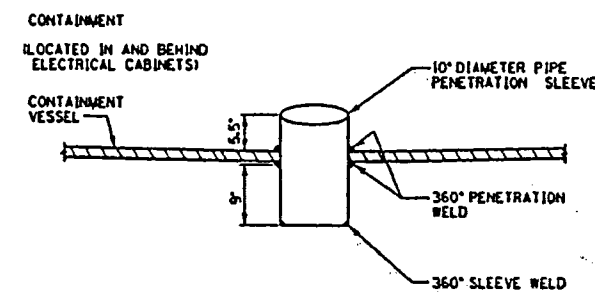
ELECTRICAL
PENETRATION NO. E-7

SCALE 1" = 1'-0"



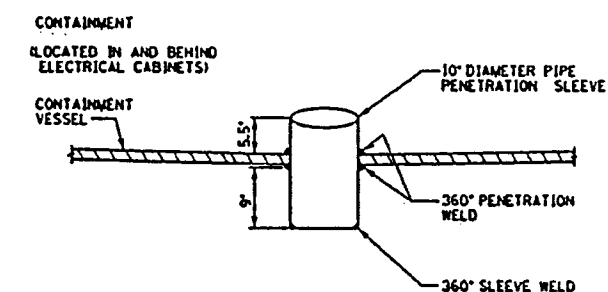
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PENETRATION NO. E-8

SCALE 1" = 1'-0"



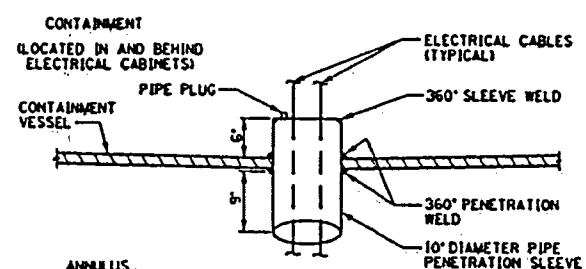
ELECTRICAL
PENETRATION NO. E-9

SCALE 1" = 1'-0"



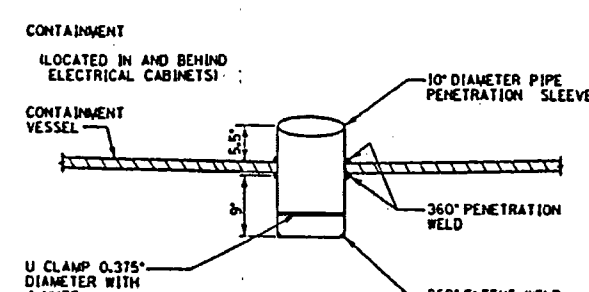
ELECTRICAL
PENETRATION NO. E-10

SCALE 1" = 1'-0"



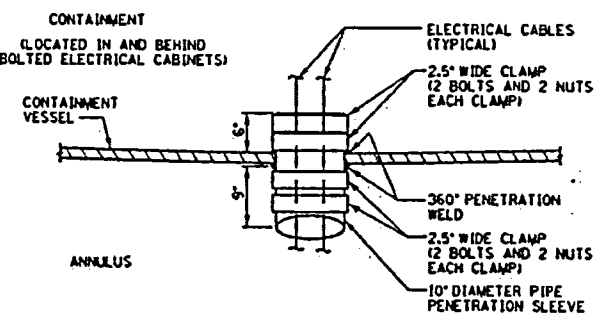
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PENETRATION NO. E-11

SCALE 1" = 1'-0"



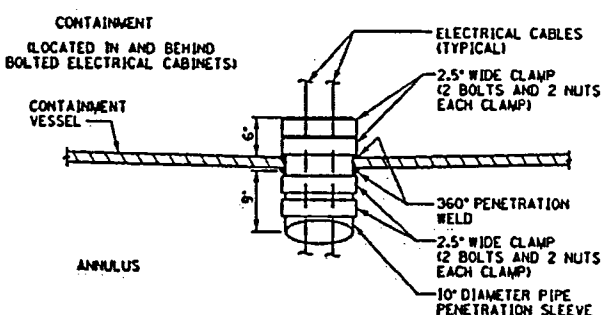
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PENETRATION NO. E-12

SCALE 1" = 1'-0"



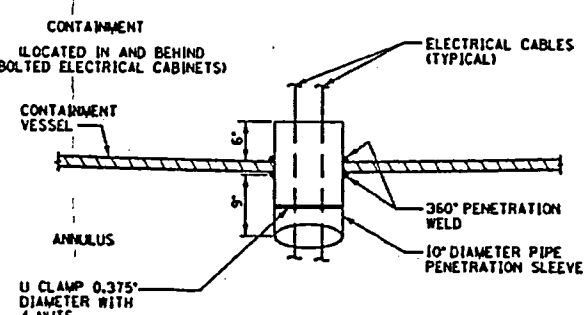
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PENETRATION NO. E-1

SCALE 1" = 1'-0"



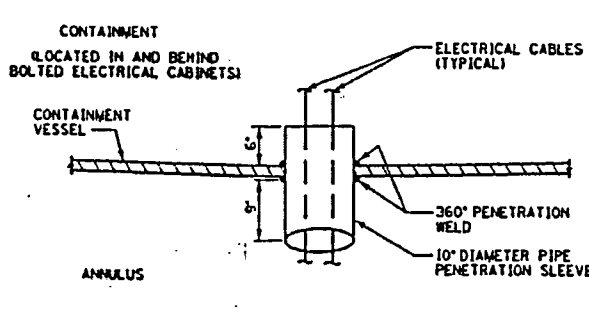
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PENETRATION NO. E-2

SCALE 1" = 1'-0"



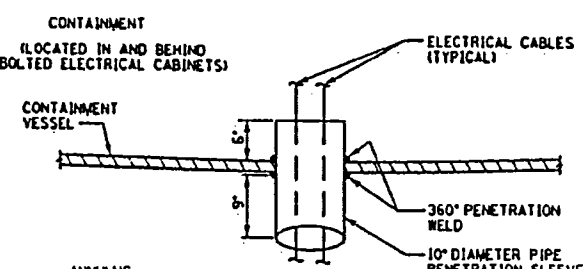
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PENETRATION NO. E-3

SCALE 1" = 1'-0"



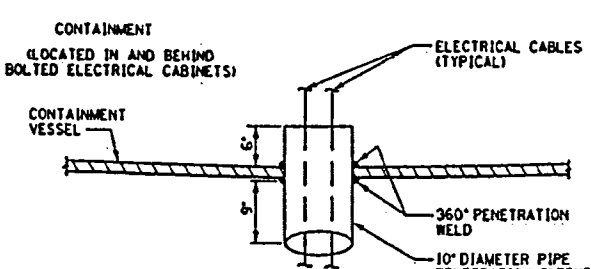
ELECTRICAL
PENETRATION NO. E-4

SCALE 1" = 1'-0"



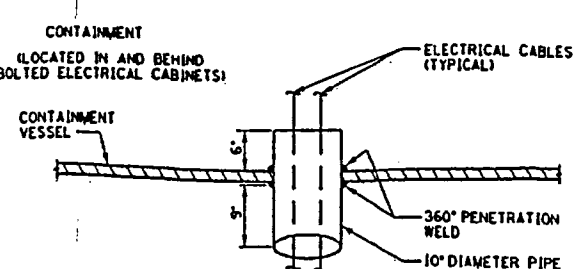
ELECTRICAL
PENETRATION NO. E-5

SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. E-6

SCALE 1" = 1'-0"



ELECTRICAL
PENETRATION NO. E-7

SCALE 1" = 1'-0"

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

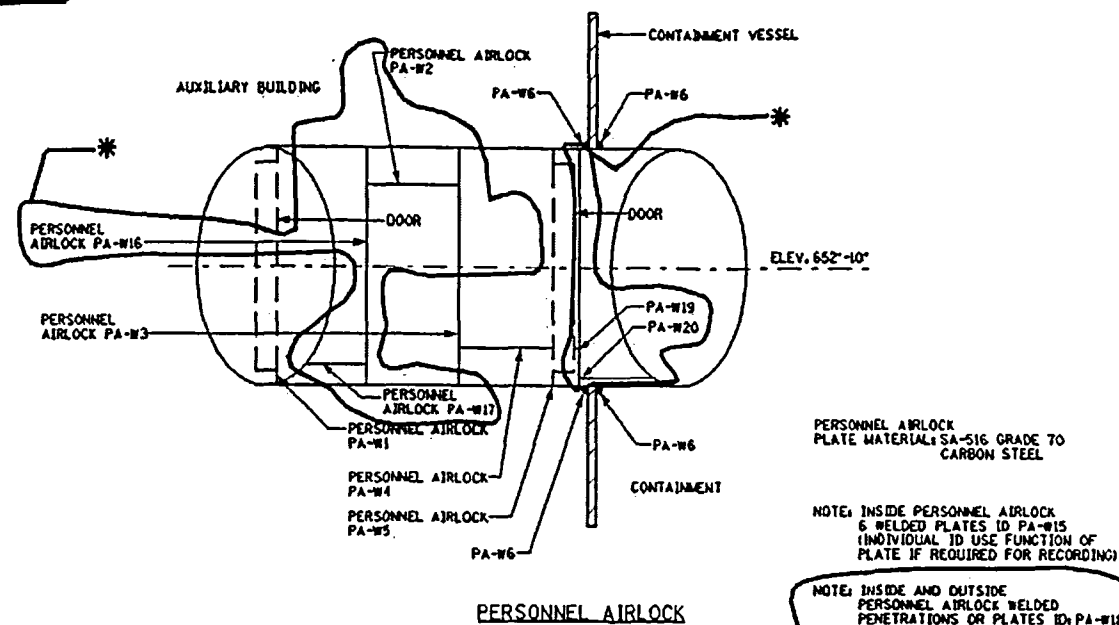
DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|----------|------|------------------|------|
| DESIGNED | DATE | PROJECT APPROVED | REV. |
| CHECKED | DATE | PROJECT APPROVED | REV. |
| BY | DATE | PROJECT APPROVED | REV. |
| BY | DATE | PROJECT APPROVED | REV. |

CADD

M-1727 SH. 16 OF 34 (-)

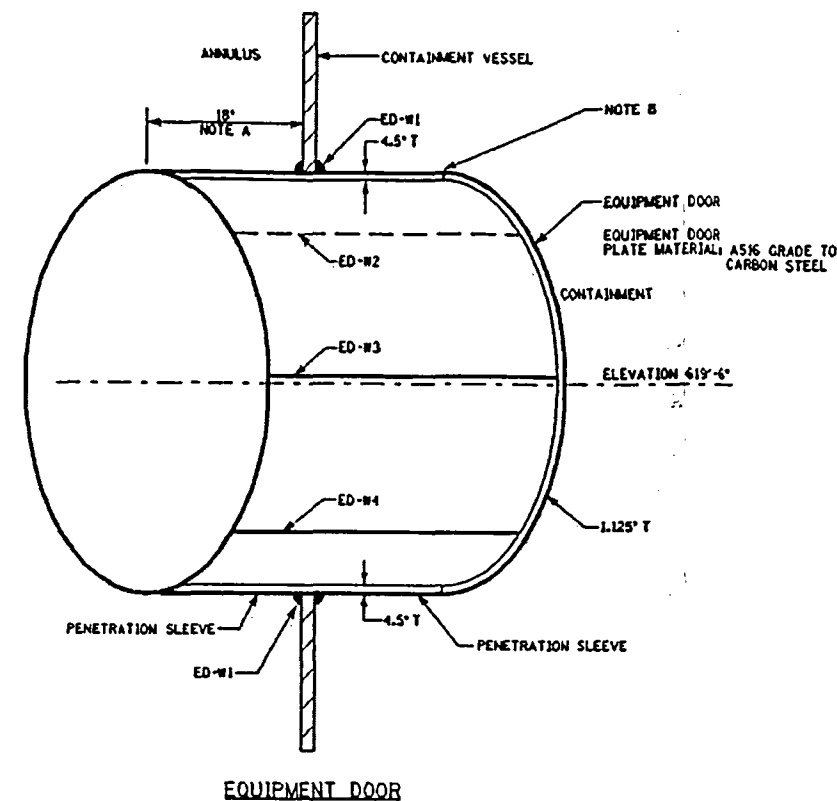
(-)



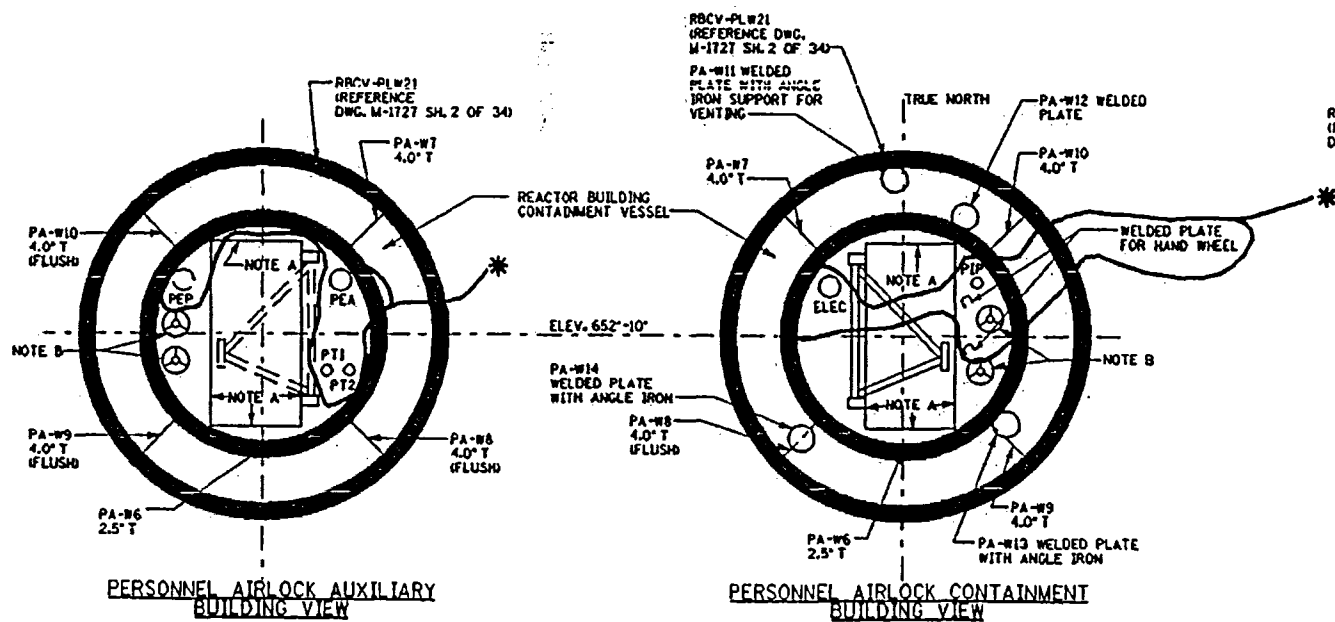
PERSONNEL AIRLOCK
PLATE MATERIAL: SA-516 GRADE TO
CARBON STEEL

NOTE: INSIDE PERSONNEL AIRLOCK
6 WELDED PLATES ID PA-W15
(INDIVIDUAL ID USE FUNCTION OF
PLATE IF REQUIRED FOR RECORDING)

NOTE: INSIDE AND OUTSIDE
PERSONNEL AIRLOCK WELDED
PENETRATIONS OR PLATES ID PA-W18
(INDIVIDUAL ID USE FUNCTION OF PLATE
IF REQUIRED FOR RECORDING)



EQUIPMENT DOOR

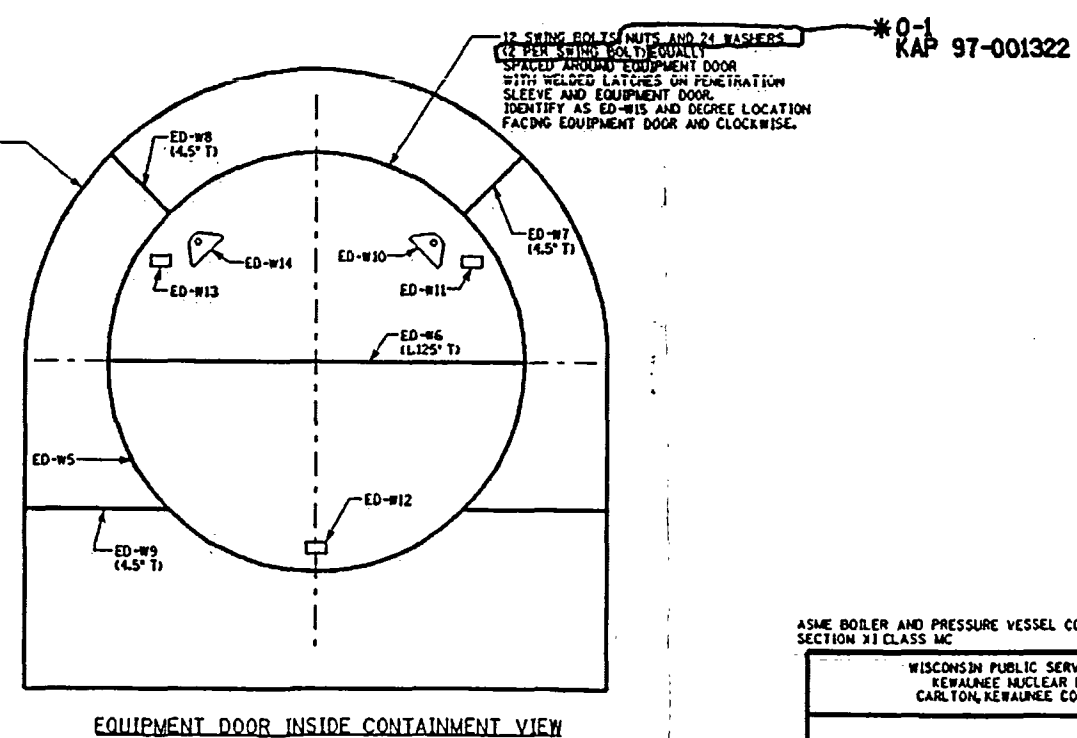
PERSONNEL AIRLOCK AUXILIARY
BUILDING VIEWPERSONNEL AIRLOCK CONTAINMENT
BUILDING VIEW

NOTE A: GASKET STRIPS ON DOOR INTERFACES
NOTE B: SEALS LOCATED ON INSIDE OF EACH HANDWHEEL

PERSONNEL AIRLOCK WELDS

PA-W1 PERSONNEL AIRLOCK CIRCUMFERENTIAL DOOR WELD I.D. AND O.D.
PA-W2 AND PA-W4 PERSONNEL AIRLOCK LONGITUDINAL WELDS I.D. AND O.D.
PA-W3 PERSONNEL AIRLOCK CIRCUMFERENTIAL WELD I.D. AND O.D.
PA-W5 PERSONNEL AIRLOCK CIRCUMFERENTIAL DOOR WELD I.D. AND O.D.
PA-W6 REACTOR BUILDING CONTAINMENT VESSEL PENETRATION WELD I.D. AND O.D.
PA-W7, PA-W8, PA-W9 AND PA-W10 REACTOR BUILDING CONTAINMENT VESSEL PENETRATION WELDS I.D. AND O.D.
PA-W11, PA-W12, PA-W13 AND PA-W14 REACTOR BUILDING CONTAINMENT VESSEL PENETRATION WELDED PLATES.
PA-W15 PERSONNEL AIRLOCK WELDED PLATES.
PA-W16 PERSONNEL AIRLOCK CIRCUMFERENTIAL WELD I.D. AND O.D.
PA-W17 PERSONNEL AIRLOCK LONGITUDINAL WELD I.D. AND O.D.
PA-W18 PERSONNEL AIRLOCK WELDED PENETRATIONS AND PLATES (E, PEP, PEA, PT1, PT2, PIP, ELECTRICAL AND HAND WHEELS).
PA-W19 PERSONNEL AIRLOCK CIRCUMFERENTIAL WELD I.D. AND O.D.
PA-W20 PERSONNEL AIRLOCK LONGITUDINAL WELD I.D. AND O.D.

RCV-PLW10
(REFERENCE
DWG. M-1727 SH. 2 OF 34)



EQUIPMENT DOOR INSIDE CONTAINMENT VIEW

NOTE A: SLEEVE LENGTH VARIES DUE TO CURVATURE ON CONTAINMENT VESSEL
NOTE B: 2 GASKETS 360° BETWEEN PENETRATION SLEEVE AND EQUIPMENT DOOR.

EQUIPMENT DOOR WELDS

ED-W1 REACTOR BUILDING CONTAINMENT VESSEL PENETRATION WELD I.D. AND O.D.
ED-W2, ED-W3 AND ED-W4 PENETRATION SLEEVE AND EQUIPMENT DOOR LONGITUDINAL WELDS.
ED-W5 EQUIPMENT DOOR CIRCUMFERENTIAL WELD I.D. AND O.D.
ED-W6 EQUIPMENT DOOR LONGITUDINAL WELD I.D. AND O.D.
ED-W7, ED-W8 AND ED-W9 REACTOR BUILDING CONTAINMENT VESSEL LONGITUDINAL PENETRATION WELD.
ED-W10, ED-W11, ED-W12, ED-W13 AND ED-W14 EQUIPMENT DOOR WELDED ATTACHMENTS
ED-W15 SWING BOLT WELDED LATCHES.

| REVISION | |
|---|--|
| FILED FIRST ISSUE BY WPS PER KAP 1322 APP'D FEB 02-27-98 FILMED WPS 03-10-98 | |
| 0-1 KAP 97-001322 REVISED NOTES, ADDED WELDS PA-W16, 17, 18, 19 AND 20. BY SMJ 11-14-01 APP'D FEB 11-15-01 | |
| KAP 97-001322 SEE REV 0-1 FILMED WPS 11-20-01 | |

M-1727 SH. 18 OF 34

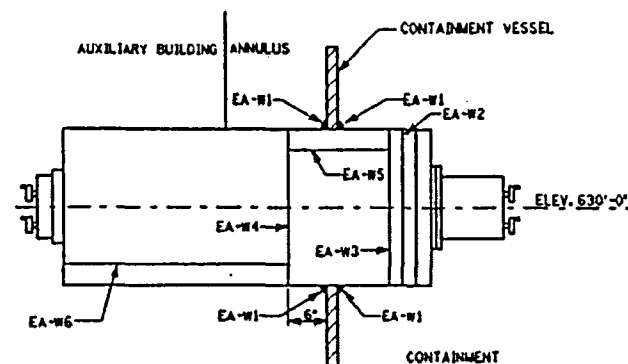
ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI CLASS MC

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

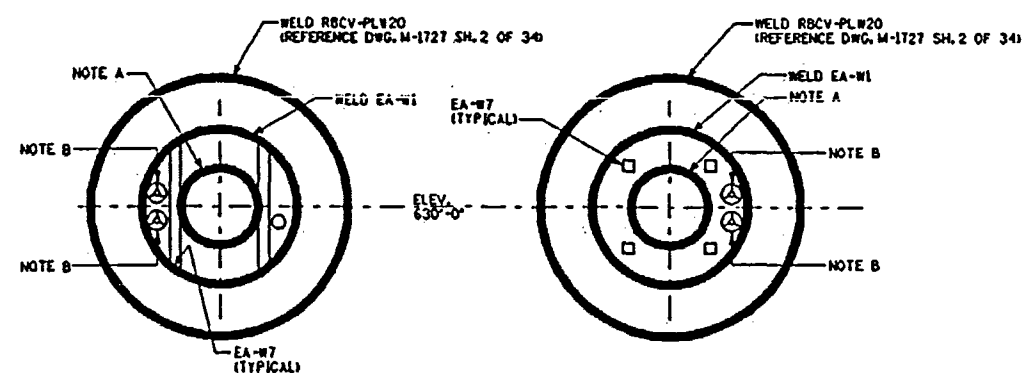
INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

CADD
DWG. NO. M-1727 SH. 18 OF 34
REV. A



EMERGENCY AIRLOCK



EMERGENCY AIRLOCK AUXILIARY
BUILDING VIEW

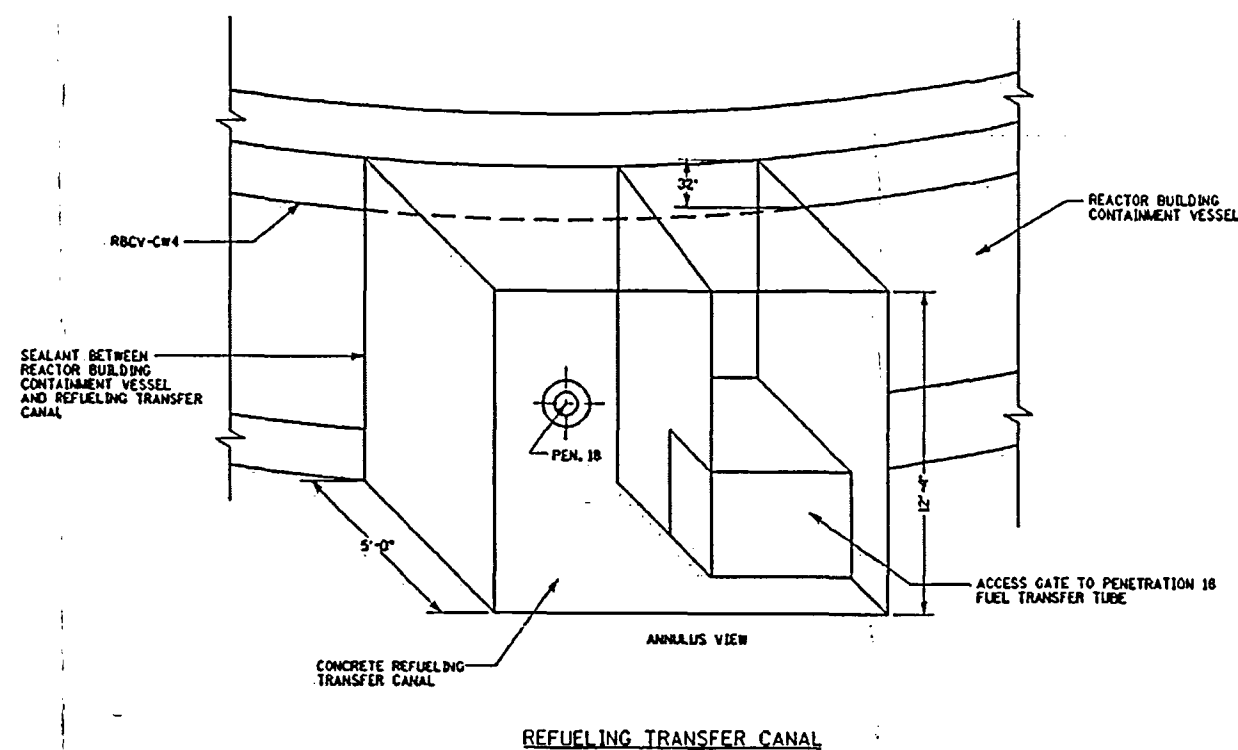
EMERGENCY AIRLOCK CONTAINMENT
BUILDING VIEW

A-1
-KAP 97-001322

NOTE A: GASKET STRIPS (AND SEALS) ON DOOR INTERFACES
NOTE B: SEALS LOCATED UN~~DER~~ INSIDE OF EACH HANDWHEEL

EMERGENCY AIRLOCK WELDS

EA-W1 REACTOR BUILDING CONTAINMENT VESSEL PENETRATION WELD ID. AND O.D.
EA-W2 EMERGENCY AIRLOCK CIRCUMFERENTIAL WELD
EA-W3 EMERGENCY AIRLOCK CIRCUMFERENTIAL WELD
EA-W4 EMERGENCY AIRLOCK CIRCUMFERENTIAL WELD
EA-W5 EMERGENCY AIRLOCK CIRCUMFERENTIAL WELD
EA-W6 EMERGENCY AIRLOCK LONGITUDINAL WELD
EA-W7 (ALL OTHER WELDS ON EMERGENCY AIRLOCK I.E. HANDLE WELDS,
TACK WELDS, HINGE WELDS ETC.)



REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APPD/FEB 02-27-98
FILMED/HNPS/03-10-98
Q-1 KAP 1322
REDRAW SECTION OF
REFUELING TRANSFER
CANAL
BY: JMS 9-24-99
APPD/FEB 9-24-99
A KAP 1322 COMPL.
SEE REV. 0-1
FILMED/10-12-99
A-1 KAP 97-001322
REVISED NOTE A.
BY: SJJ 11-14-01
APPD/FEB 11-15-01
B KAP 97-001322
SEE REV. A-1 COMPL.
FILMED/HNPS/11-20-01

M-1727 SH, 19 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | |
|---------------------|------------------|
| GREEN DAY WISCONSIN | |
| (6122) | (1752) |
| DEALER | PROJECT APPROVER |

CADD M-1727 SH. 19 OF 34

PC 30 02 HS 1211-M

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|---------|---------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| RBCV-PLW1 | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | UNKNOWN | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| RBCV-PLW2 | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-PLW3 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW4 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW5 | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-PLW6 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW7 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW8 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW9 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW10 | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-PLW11 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW12 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW13 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW14 | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | |
| RBCV-PLW15 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | INACCESSIBLE FROM CONTAINMENT ONLY, LOCATED BEHIND REACTOR CAVITY STAINLESS STEEL LINING, PLATE PARTIALLY INACCESSIBLE IN ANNULUS DUE TO REFUELING TRANSFER CANAL |
| RBCV-PLW16 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW17 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW18 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW19 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW20 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW21 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW22 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW23 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-PLW24 | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW1 | NO | YES | NO | NO | NO | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | NO | NO | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| RBCV-CW2 | NO | YES | NO | NO | NO | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | NO | NO | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| RBCV-CW3 | NO | YES | NO | NO | NO | UNKNOWN | UNKNOWN | YES | UNKNOWN | NO | NO | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| RBCV-CW4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN ANNULUS AND CONTAINMENT DUE TO REFUELING TRANSFER CANAL |
| RBCV-CW5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT DUE TO REFUELING TRANSFER CANAL |
| RBCV-CW6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT DUE TO REFUELING TRANSFER CANAL |
| RBCV-CW7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW8 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW9 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW10 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW11 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW12 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW13 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION

FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98

0-1 KAP 00-001322
REVISED COMMENTS
RBCV-CW4, ADDED
COMMENTS TO RBCV-CW5
& RBCV-CW6
BY JMS 06-28-00
APP'D: 11-19-00

A KAP 00-001322 COMPL.
SEE REV. 0-1
FILMED: WPS 11-23-00

0-1
KAP 00-001322

M-1727 SH. 20 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | |
|----------|---------------------|
| DESIGNED | APPROVED |
| CHECKED | PROJECT APPROVED |
| DATE | DWG. NO. |
| 11-11-97 | M-1727 SH. 20 OF 34 |
| SCALE | REV. |
| NONE | A |

CADD

M-1727-21

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|--|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| RBCV-CW14 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW15 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-CW16 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW1 | NO | YES | NO | NO | NO | NO | NO | YES | NO | NO | NO | UNKNOWN | INACCESSIBLE DUE TO CONCRETE RING IN ANNULUS |
| RBCV-LW2 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW3 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW4 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW5 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW6 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW7 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW8 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | IN ANNULUS PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| RBCV-LW9 | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | 100% INACCESSIBLE DUE TO REFUELING TRANSFER CANAL IN CONTAINMENT & IN ANNULUS |
| RBCV-LW10 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW11 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW12 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW13 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW14 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW15 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW16 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW17 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | 100% INACCESSIBLE IN CONTAINMENT AND PARTIALLY INACCESSIBLE IN ANNULUS DUE TO REFUELING TRANSFER CANAL |
| RBCV-LW18 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW19 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW20 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW21 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW22 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW23 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW24 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW25 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW26 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW27 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW28 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW29 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW30 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW31 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW32 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW33 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW34 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.

2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.

3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLN -), CIRCUMFERENTIAL WELDS (RBCV-CW -), MERIDIONAL WELDS (RBCV-MW -), LONGITUDINAL WELDS (RBCV-LW -) AND PLATE (PLATE -) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION

FILED FIRST ISSUE
BY WPS
PER AC 1322
APPRD FEB 02-27-98
FILEDWPS03 03-10-98

0-1] KAP 00-001322
REVISED COMMENTS
RBCV-LW17
BY: JMS 06-28-00
APPRD DAK 07/07/00

1] KAP 00-001322 COMPL
SEE REV. 0-1
FILEDWPS07 07/11/00

1-1] KAP 009600
REVISED COMMENTS FROM
RBCV-LW17
DORTH NTN 02-22-05
APPRD FEB 02-23-05

2] KAP 009600 COMPLETE
SEE REVISION A-1
FILEDWPS 03-01-05

- A-1
CAP 009600

M-1727-21

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|------------|--|------------------------------|------------------|
| CLASSIFIED | | UNCLASSIFIED | |
| CHECKED | | PROJECT APPROVED | |
| | | DWG. NO. M-1727-21 | REV. B |

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|--|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELOS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| RBCV-LW35 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW36 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW37 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW38 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | IN CONTAINMENT PARTIALLY INACCESSIBLE DUE TO REFUELING TRANSFER CANAL |
| RBCV-LW39 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW40 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW41 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW42 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW43 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW44 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW45 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW46 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW47 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW48 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW49 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW50 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW51 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW52 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW53 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW54 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW55 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW56 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW57 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW58 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW59 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW60 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW61 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW62 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW63 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW64 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW65 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW66 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW67 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW68 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW69 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW70 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW71 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

IN CONTAINMENT PARTIALLY INACCESSIBLE
DUE TO REFUELING TRANSFER CANAL

- 0-1
KAP 00-001322

| REVISION |
|---|
| FILMED FIRST ISSUE BY WPS PER WAP 1322 APP'D: PEB 02-27-98 FILMED: WPS 03-10-98 |
| Q-1 KAP 00-001322 ADDED COMMENTS RBCV-L#38 BY: JMS 06-28-00 APP'D: |
| A KAP 00-001322 COMPL. SEE REV. Q-1 FILMED: WPS 10-10-00 |

M-1727 SH. 22 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|---|--|---------------------------------|-----------|
| DESIGNED | | APPROVED | |
| CHECKED | | PROJECT APPROVED | |
| DATE L.A.H. 12-8-97 SCALE NONE | | DWG. NO. M-1727 SH. 22 OF 34 | REV. A |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
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3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.O. LOCATION (ANNULUS) AND I.O. LOCATION (CONTAINMENT).

CADD

M-1727 SH. 23 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|--|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| RBCV-LW72 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW73 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW74 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW75 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW76 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW77 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW78 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW79 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW80 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW81 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW82 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW83 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW84 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW85 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW86 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW87 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW88 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW89 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW90 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW91 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW92 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW93 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW94 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW95 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW96 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW97 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW98 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW99 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW100 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW101 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW102 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW103 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW104 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW105 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW106 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-LW107 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| RBCV-FLW1 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | FLANGE WELD LOCATED AT PENETRATION NO. 42N |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.

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REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPSJ 03-10-98

M-1727 SH. 23 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|---------|----------|------------------|-------------------------|
| DATE | 11-11-97 | DWG. NO. | M-1727 SH. 23 OF 34 (-) |
| CHECKED | | PROJECT APPROVED | |
| DATE | 11-11-97 | REV. | |
| BY | | | |
| DATE | | | |
| BY | | | |

CADD

M-1727 SH. 24 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|---------|---------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| RBCV-FLW2 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. 43N |
| RBCV-FLW3 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. C-10 |
| RBCV-FLW4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. 18 |
| RBCV-FLW5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. F-8 |
| RBCV-FLW6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. 41E |
| RBCV-FLW7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | FLANGE WELD LOCATED AT PENETRATION NO. 41S/S |
| RBCV-BW1 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 6E |
| RBCV-BW2 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 6W |
| RBCV-BW3 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 7E |
| RBCV-BW4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 7W |
| RBCV-BW5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 8N |
| RBCV-BW6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 8S |
| RBCV-BW7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 9 |
| RBCV-BW8 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 10 |
| RBCV-BW9 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | SLEEVE TO BELLOWS WELD LOCATED AT PENETRATION NO. 11 |
| RBCV-BW10 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | NO | PIPE TO BELLOWS WELD LOCATED AT PENETRATION NO. 18 |
| RBCV-DW1 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 5 |
| RBCV-DW2 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 12 |
| RBCV-DW3 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 13E |
| RBCV-DW4 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 13N |
| RBCV-DW5 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 14 |
| RBCV-DW6 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 18, ANNULUS SECTION LOCATED IN BASEMENT BEHIND LOCKED GATE, CONTAINMENT SECTION 7E INTO CONTAINMENT VESSEL INACCESSIBLE LOCATED BEHIND STAINLESS STEEL REFUELING CAVITY LINER. |
| RBCV-DW7 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 26 |
| RBCV-DW8 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 28E |
| RBCV-DW9 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 28N |
| RBCV-DW10 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 29E |
| RBCV-DW11 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 29N |
| RBCV-DW12 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 45 |
| RBCV-DW13 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 48 |
| RBCV-DW14 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 49E |
| RBCV-DW15 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 49N |
| RBCV-DW16 | NO | YES | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | DISSIMILAR METAL WELD LOCATED AT PENETRATION NO. 50 |
| RBCV-MW1 THRU RBCV-MW64 | NO | YES | NO | NO | NO | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | NO | NO | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| RBCV-MW65 THRU RBCV-MW128 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 1 THRU PLATE 61 | YES | NO | NO | NO | NO | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | NO | NO | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| PLATE 62 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO REFUELING TRANSFER CANAL AND CONCRETE RING IN ANNULUS |
| PLATE 63 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 64 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.

2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.

3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98

M-1727 SH. 24 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSININSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSELDESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|------------------|----------|---------------------|------|
| DESIGNED | DATE | DWG. NO. | REV. |
| CHECKED | 12-11-97 | M-1727 SH. 24 OF 34 | (-) |
| PROJECT APPROVED | | | |

CADD

11-172754.25 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|--|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PLATE 65 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 66 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 67 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 68 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 69 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO CONCRETE RING |
| PLATE 70 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | PARTIALLY INACCESSIBLE DUE TO REFUELING TRANSFER CANAL AND CONCRETE RING IN ANNULUS |
| PLATE 71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 72 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 73 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 74 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 75 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 76 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 77 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 78 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN ANNULUS DUE TO REFUELING TRANSFER CANAL |
| PLATE 79 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN ANNULUS DUE TO REFUELING TRANSFER CANAL |
| PLATE 80 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 81 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 82 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 83 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 84 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 85 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 86 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 87 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 88 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 89 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 90 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 91 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 92 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 93 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 94 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 95 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 96 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 97 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 98 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 99 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 100 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 101 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 102 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.

2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD (INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.

3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).


REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS: 03-10-98

M-1727 SHL 25 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|---|--------------------------|--------------------|---------------------|
| H-1120 | | DWG. NO. | |
| CHECKED | | PROJECT APPROVED | |
|  | DATE | DWG. NO. | REV. |
| | 1. A.M. SCALE NONE | 11-11-92 M-1727 | 54, 25 OF 34 (-) |

CADD

M-1727 SH 26 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|----------|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PLATE 103 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 104 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 105 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 106 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 107 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 108 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 109 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 110 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 111 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 112 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 113 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 114 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 115 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 116 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 117 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 118 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 119 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 120 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 121 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 122 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 123 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 124 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 125 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 126 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 127 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 128 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 129 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 130 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 131 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 132 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 133 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 134 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 135 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 136 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 137 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 138 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 139 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 140 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APPROX FEB 02-27-98
FILMED WPS 03-10-98

M-1727 SH 26 OF 34

| | | | |
|---|------------------|--------------------------------|-------------|
| WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT CARLTON, KEWAUNEE COUNTY, WISCONSIN | | | |
| INSERVICE INSPECTION ISOMETRIC REACTOR BUILDING CONTAINMENT VESSEL | | | |
| DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. GREEN BAY, WISCONSIN | | | |
| BY J. A. H. | DATE 11-11-97 | DWG. NO. M-1727 SH 26 OF 34 | REV. (-) |
| CHECKED J. A. H. | SCALE NONE | PROJECT APPROVAL | |

CADD

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|----------|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PLATE 141 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 142 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 143 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 144 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 145 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 146 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 147 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 148 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 149 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 150 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 151 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 152 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 153 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 154 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 155 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 156 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 157 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 158 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 159 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 160 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 161 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 162 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 163 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 164 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 165 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 166 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 167 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 168 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 169 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 170 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 171 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 172 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 173 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 174 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 175 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 176 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 177 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 178 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98

M-1727 SH. 27 OF 34

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|---|---------------------------------|-------------|--|
| WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT CARLTON, KEWAUNEE COUNTY, WISCONSIN | | | |
| INSERVICE INSPECTION ISOMETRIC REACTOR BUILDING CONTAINMENT VESSEL | | | |
| DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. GREEN BAY, WISCONSIN | | | |
| DATE 11-11-97 | DWG. NO. M-1727 SH. 27 OF 34 | REV. (-) | |
| CADD | | | |

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|----------|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PLATE 179 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 180 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 181 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 182 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 183 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 184 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 185 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 186 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 187 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 188 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 189 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 190 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 191 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 192 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 193 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 194 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 195 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 196 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 197 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 198 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 199 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 200 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 201 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 202 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 203 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 204 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 205 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 206 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 207 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 208 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 209 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 210 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 211 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 212 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 213 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 214 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 215 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 216 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98

M-1727 SH 28 OF 34

| | | | |
|---|----------|--------------------|------|
| WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT CARLTON, KEWAUNEE COUNTY, WISCONSIN | | | |
| INSERVICE INSPECTION ISOMETRIC REACTOR BUILDING CONTAINMENT VESSEL | | | |
| DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. GREEN BAY, WISCONSIN | | | |
| DATE | BY | DWG. NO. | REV. |
| 01-04-98 | L.A.H. | M-1727 SH 28 OF 34 | (-) |
| CHECKED | DATE | PROJECT APPROVED | |
| | 01-11-98 | | |
| | BY | | |
| | NONE | | |

CADD

M-1727 SL 29 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PLATE 217 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 218 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 219 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 220 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 221 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 222 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 223 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 224 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 225 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 226 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 227 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 228 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PLATE 229 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK | NO | YES | NO | NO | NO | YES | YES | NO | YES | YES • | NO | YES | BOLTED CONNECTIONS INCLUDE HANDWHEELS, LATCHES ETC. • REQUIRES PARTIAL REMOVAL OF PERSONNEL AIRLOCK DECK PLATE FOR ACCESS. |
| PERSONNEL AIRLOCK PA-W1 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W2 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | • REQUIRES PARTIAL REMOVAL OF PERSONNEL AIRLOCK DECK PLATE FOR ACCESS. |
| PERSONNEL AIRLOCK PA-W3 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES • | NO | YES | |
| PERSONNEL AIRLOCK PA-W4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W8 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W9 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W10 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W11 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W12 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W13 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W14 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W15 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W16 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W17 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W18 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W19 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PERSONNEL AIRLOCK PA-W20 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR | NO | YES | NO | NO | YES | NO | YES | NO | YES | YES | NO | YES | |
| EQUIPMENT DOOR ED-W1 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

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NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER RAP 1322
APP'D: FEB 02-27-98
FILMED(WPS) 03-10-98
0-1 KAP 97-001322
ADDED AIDLOCK PA-W16
17,18, 19 AND 20.
BT: SWJ 11-14-01
APP'D/FEB 11-15-01
A KAP 97-001322
SEE REV 0-1. COMPL.
FILMED(WPS) 11-20-01
A-1 KAP 01-001639
ADDED NOTES WITH •
BY PUB 04/22/03
APP'D:
B/KAP 01-001639 COMPL.
SEE REV. A-1
FILMED(WPS)

A-1
KAP 01-001639

M-1727 SL 29 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

| | | | |
|-----------------|--|------------------|--------------|
| DESIGNED | | APPROVED | |
| CHECKED | | PROJECT APPROVED | |
| DATE | | DWG. NO. | REV. |
| L.A.H. 11-11-57 | | M-1727 | SRL 29 OF 34 |
| BY NONE | | | |

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PC 30 06 35 1221-M

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|---------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| EQUIPMENT DOOR ED-W8 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W9 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W10 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W11 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W12 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W13 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W14 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EQUIPMENT DOOR ED-W15 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| | | | | | | | | | | | | | |
| EMERGENCY AIRLOCK | NO | YES | NO | NO | NO | YES | YES | NO | YES | YES | NO | YES | BOLTED CONNECTIONS INCLUDE HANDWHEELS, LATCHES ETC. |
| EMERGENCY AIRLOCK EA-W1 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W2 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W3 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W6 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| EMERGENCY AIRLOCK EA-W7 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| | | | | | | | | | | | | | |
| REFUELING TRANSFER CANAL | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | EXEMPT FROM THE EXAMINATION CONCRETE REFUELING TRANSFER CANAL EXAMINE ATTACHMENT AREA TO REACTOR BUILDING CONTAINMENT VESSEL IN ANNULUS ONLY. |
| | | | | | | | | | | | | | |
| PENETRATION NO. 1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 4 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 5 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 6E | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 6W | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 7E | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 7W | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 8H | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 8S | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 12 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 13E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 13W | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 14 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
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 3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PL-W-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
 FILMED FIRST ISSUE
 BY WPS
 PER KAP 1322
 APPROVED 02-27-98
 FILMED WPSJ 03-10-98

M-1727 SH. 30 OF 34

| | | | |
|---|------|-------------------------|------|
| WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Power Plant CARLTON, KEWAUNEE COUNTY, WISCONSIN | | | |
| INSERVICE INSPECTION ISOMETRIC REACTOR BUILDING CONTAINMENT VESSEL | | | |
| DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. GREEN BAY, WISCONSIN | | | |
| DATE | BY | CHKD. NO. | REV. |
| 02-27-98 | WPSJ | | |
| 03-10-98 | WPSJ | | |
| CADD | | M-1727 SH. 30 OF 34 (-) | |

M-1727 SH. 31 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|---------|---------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PENETRATION NO. 15 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 16 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 17 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 18 | NO | YES | NO | NO | NO | NO | YES | NO | YES | YES | NO | YES | ANNULUS SECTION LOCATED BEHIND LOCKED GATE IN TRANSFER CANAL BASEMENT OF ANNULUS CONTAINMENT SECTION TIE IN TO CONTAINMENT VESSEL INACCESSIBLE LOCATED BEHIND STAINLESS STEEL REFUELING CAVITY LINER BOLTED FLANGE AND FLANGE WELD ACCESSIBLE IN REFUELING TRANSFER CANAL |
| PENETRATION NO. 19 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 20 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 21 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 22 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 23 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 24 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 25N | NO | YES | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 25S | NO | YES | NO | YES | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 26 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 27E | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 27EN | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 27N | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 27NE | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 27NW | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 28E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 28N | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 29E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 29N | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 30E | NO | UNKNOWN | NO | NO | YES | UNKNOWN | UNKNOWN | NO | UNKNOWN | NO | UNKNOWN | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| PENETRATION NO. 30W | NO | UNKNOWN | NO | NO | YES | UNKNOWN | UNKNOWN | NO | UNKNOWN | NO | UNKNOWN | UNKNOWN | INACCESSIBLE CONCRETE ENCLOSED |
| PENETRATION NO. 31 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 32E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 32N | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 33E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 33N | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 35 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 36N | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 36NW | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 36S | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 36SE | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 36W | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 37EN | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 37ES | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |

O-1
KAP 00-001322

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
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REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: WPS 03-10-98
O-1 KAP 00-001322
REMOVED COMMENTS
PENS NO. 37EN & 37ES
BY: JMS 06-28-00
APP'D: JMS
A KAP 00-001322 COMPL
SEE REV. O-1
FILMED: WPS

M-1727 SH. 31 OF 34

O-1
KAP 00-001322

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

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|-------------------------|---------------------------------|
| DESIGNED | APPROVED |
| CHECKED | PROJECT APPROVED |
| DATE L.A.H. 11-11-97 | DWG. NO. M-1727 SH. 31 OF 34 |
| SCALE NONE | REV. A |

CADD

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|------------------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELOS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PENETRATION NO. 37NE | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 37NW | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 38EN | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 38ES | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 38NE | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 38NW | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | |
| PENETRATION NO. 39 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 40 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 41E | NO | YES | NO | YES | NO | NO | YES (14 0 RDNGS) | NO | YES | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 41ES | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 41S/S | NO | YES | NO | YES | NO | NO | YES (14 0 RDNGS) | NO | YES | YES | NO | YES | REQUIRES SCAFFOLDING INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 42E | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 42EN | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 42N | NO | YES | NO | NO | YES | NO | YES | NO | YES | YES | NO | YES | |
| PENETRATION NO. 42NE | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 42NW | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 42S | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 42W | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | REQUIRES SCAFFOLDING OR LADDER INSIDE CONTAINMENT FOR ACCESS |
| PENETRATION NO. 43N | NO | YES | NO | NO | YES | NO | YES | NO | YES | YES | NO | YES | |
| PENETRATION NO. 43S | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 43SE | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 44 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 45 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 46E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 46W | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 48 | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 49E | NO | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. 49N | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | UNUSED PENETRATION, PENETRATION SLEEVE ONLY |
| PENETRATION NO. 50 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | UNUSED PENETRATION, PENETRATION SLEEVE ONLY |
| PENETRATION NO. 51 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 53 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 54 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 55 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 56 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 57 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 58 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

A-1
KAP 97-001322

REVISION

FILMED FIRST ISSUE BY WPS PER KAP 1322 APP'D: PEB 02-27-98 FILMED: WPS 03-10-98

0-1 KAP 00-001322 REMOVED COMMENTS PENETRATION NO. 37NE, 37NW, 38EN, 38ES, 38NE & 38 NW BY: JMS 06-28-00 APP'D: DAK 07/07/00

A KAP 00-001322 COMPL. SEE REV. 0-1 FILMED: WPS 07/11/00

A-1 KAP 97-001322 REVISED 0 RDNGS TO 4 QTY. ON PENETRATION NO. 41E & 41S/S. BY: SMAJ 11-14-01 APP'D: PEB 11-15-01

B KAP 97-001322 COMPL. SEE REV. A-1 FILMED: WPS 11-20-01

M-1727 SH. 32 OF 34

| | | | |
|---|------|---------------------|------|
| WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT CARLTON, KEWAUNEE COUNTY, WISCONSIN | | | |
| INSERVICE INSPECTION ISOMETRIC REACTOR BUILDING CONTAINMENT VESSEL | | | |
| DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. GREEN BAY, WISCONSIN | | | |
| DATE | REV. | DWG. NO. | REV. |
| 11-14-01 | 1 | M-1727 SH. 32 OF 34 | B |

CADD

| EXAMINATION AREA | | | | | | | | | | | | | |
|--|-------|---|--------------------------|-------------|-----------------------|-------|--------------------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | COMMENTS |
| PENETRATION NO. 65 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 66 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 67 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. 68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | DOES NOT PENETRATE CONTAINMENT VESSEL PENETRATES SHIELD BUILDING ONLY |
| PENETRATION NO. A-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-8 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. A-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-8 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. B-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. B-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. C-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. C-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. C-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT *BOLTED ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. C-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. C-8 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-10 | NO | YES | NO | NO | YES | NO | YES (2 O RINGS) | NO | YES | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |

NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.

2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, PENETRATION SLEEVE INSIDE ANNULUS OR CONTAINMENT, ETC.

3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-1), CIRCUMFERENTIAL WELDS (RBCV-CW-1), MERIDIONAL WELDS (RBCV-MW-1), LONGITUDINAL WELDS (RBCV-LW-1) AND PLATE (PLATE-1) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY WPS
PER KAP 1322
APP'D: FEB 02-27-98
FILMED: (WPS) 03-10-98

M-1727 SHL 33 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
PUBLIC SE
GREEN BAY, WISCONSIN

| | | | |
|----------------------|----------|------------------|------------------|
| GREEN BAY, WISCONSIN | | | |
| DATE | 11-11-97 | PROJECT APPROVED | |
| BY | L. A. H. | | |
| NAME | | | |
| | | DWG. NO. | REV. |
| | | M-1727 | SH. 33 OF 34 (-) |

CADD

M-1727 SH.34 OF 34

| EXAMINATION AREA | | | | | | | | | | | | | COMMENTS |
|--|-------|---|--------------------------|-------------|-----------------------|-------|-----------------|---------------------|---|------------|-----------|----------------|---|
| REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION | PLATE | COMPONENT OR PENETRATION WELD/WELDS | DISSIMILAR METAL WELD | VENT SYSTEM | PENETRATION SLEEVE | SEALS | GASKETS | MOISTURE BARRIER | PRESSURE RETAINING BOLTED CONNECTION | ACCESSIBLE | INSULATED | PAINTED/COATED | |
| PENETRATION NO. C-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. C-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. D-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. D-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. D-8 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. D-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. D-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. E-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-8 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. E-10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. E-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. E-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | |
| PENETRATION NO. F-1 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-2 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-3 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-4 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-5 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-6 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-7 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-8 | NO | YES | NO | NO | YES | NO | YES (2 O RINGS) | NO | YES | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-9 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-10 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-11 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |
| PENETRATION NO. F-12 | NO | YES | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | PARTIALLY INACCESSIBLE IN CONTAINMENT "BOLTED" ELECTRICAL CABINETS DUE TO TERMINAL BLOCKS |

- NOTES: 1. PENETRATION SLEEVE AND WELD LENGTH DIMENSIONS ARE APPROXIMATE. SLEEVES AND WELDS ARE DIFFERENT LENGTHS BASED ON LOCATIONS WITH REFERENCE TO CURVATURE OF CONTAINMENT VESSEL.
2. YES IN PAINTED/COATED SECTION SYMBOLIZES THAT A PORTION OR ENTIRE SURFACE MAY BE PAINTED. SURFACES INCLUDE PLATE, 360° PENETRATION WELD INSIDE ANNULUS OR CONTAINMENT, ETC.
3. REACTOR BUILDING CONTAINMENT VESSEL COMPONENT IDENTIFICATION FOR PLATE WELDS (RBCV-PLW-), CIRCUMFERENTIAL WELDS (RBCV-CW-), MERIDIONAL WELDS (RBCV-MW-), LONGITUDINAL WELDS (RBCV-LW-) AND PLATE (PLATE-) ARE APPLICABLE FOR BOTH O.D. LOCATION (ANNULUS) AND I.D. LOCATION (CONTAINMENT).

REVISION
FILMED FIRST ISSUE
BY RPS
PER RFP 1322
APP'D FEB 02-27-98
FILMED RPS 103-10-98

M-1727 SH.34 OF 34

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
CARLTON, KEWAUNEE COUNTY, WISCONSIN

INSERVICE INSPECTION ISOMETRIC
REACTOR BUILDING CONTAINMENT VESSEL

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.
GREEN BAY, WISCONSIN

DATE: 11-11-97
DRAWN: J.A.H.
CHECKED: RAY
PROJECT APPROVED: [Signature]
DRG. NO. M-1727 SH.34 OF 34
REV. (-)

CADD

APPENDIX B
CALIBRATION BLOCKS

Calibration Blocks for the Second 10-Year Inservice Inspection (ISI) Interval 2006-2016 ASME Boiler and Pressure Vessel Code Section XI Class MC Program will be:

- 1. WPS-52: 1.5" T x 9.0" L x 2.0" W A516 Grade 70 Carbon Steel for Reactor Vessel Containment Vessel.**
- 2. As applicable, Calibration Blocks used for the 4th 10-Year Inservice Inspection (ISI) Interval ASME Boiler and Pressure Vessel Code Section XI Class 1, Class 2, and Class 3 Program.**

Certifications for these Calibration Blocks are on file at the Kewaunee Power Station.

The attached Calibration Block Table provides a summary of these Calibration Blocks.

Appendix B

Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|-----------------------------|----------------------------|----------------------------|---|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-1 | 2.375"T x 7.9375"L x 8.125W | B2836 | A351 Grade CF8A | --- |
| WPS-3 | 28" - .858"T | 802E03230 | A516 Grade 70 Carbon Steel | 28" - .858"T Piping |
| WPS-4 | 24" SCH 80 1.219"T | N13070 | A106 Grade B Carbon Steel | 24" SCH 80 Main Steam Piping |
| WPS-5 | 14" SCH 140 1.250"T | 2637-4-2 | A376 TP316 Stainless Steel | 14" SCH 140 Pressurizer Surge Nozzle |
| WPS-6 | 16" SCH 140 1.438"T | N92392 | A106 Grade B Carbon Steel | 16" SCH 140 Feedwater Piping |
| WPS-7 | 12" SCH 160 1.312"T | 2872-8 | A376 TP316 Stainless Steel | 12" SCH 160 Accumulator Discharge Piping |
| WPS-8 | 12" SCH 40 .406"T | 2808-4-1-2 | A312 TP304 Stainless Steel | 12" SCH 40 RHR Piping |
| WPS-9 | 10" SCH 40S .365"T | 1971-12-1-2 | A312 TP304 Stainless Steel | 10" SCH 40S RHR Piping |
| WPS-10 | 10" SCH 140 1.00"T | D61232 | A312 TP304 Stainless Steel | 10" SCH 140 RHR Return and Pressurizer Surge Piping; Charging Pump Pulsation Dampener and Seal Water Injection Filter |
| WPS-11 | 8" SCH 140 .812"T | 2876-1-1 | A376 TP316 Stainless Steel | 8" SCH 140 RHR Piping |
| WPS-12 | 8" SCH 40S .322"T | M0937 | A312 TP316 Stainless Steel | 8" SCH 40S RHR and SIS Piping |
| WPS-13 | 8" SCH 80 .500"T | 139624 | A106 Grade B Carbon Steel | 8" SCH 80 Main Steam Piping |
| WPS-14 | 8" SCH 100 .594"T | 64078 | A106 Grade B Carbon Steel | 8" SCH 100 Feedwater Piping |

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Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|----------------------|----------------------------|------------------------------------|---|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-15 | 6" SCH 40 .280"T | M9959 | A312 TP304 Stainless Steel | 6" SCH 40S RHR, SIS and Containment Spray Piping |
| WPS-16 | 6" SCH 80 .432"T | 240393 | A106 Grade B Carbon Steel | 6" SCH 80 Main Steam Piping |
| WPS-17 | 6" SCH 160 .719"T | 2631-4-2 | A376 TP316 Stainless Steel | 6" SCH 160 SIS, Plocap, Pressurizer Safety Piping, Pressurizer Safety Nozzles and Pressurizer Relief Nozzle |
| WPS-18 | 4" SCH 160 .531"T | M9290 | A376 TP316 Stainless Steel | 4" SCH 160 SIS and Pressurizer Spray Nozzle |
| WPS-19 | 4" SCH 120 .438"T | M6108 | A376 TP316 Stainless Steel | 4" SCH 120 Piping |
| WPS-20 | 3" SCH 160 .438"T | 453853 | A376 TP316 Stainless Steel | 3" SCH 160 RTD, Pressurizer Relief and Pressurizer Spray Piping |
| WPS-21 | 2" SCH 160 .344"T | 08754 | A312 TP304 Stainless Steel | 2" SCH 160 RTD, SIS, Drain, Seal Injection, Charging, Letdown and Auxiliary Spray Piping |
| WPS-22 | 1.5" SCH 160 .281"T | 87623 | A312 TP316H Stainless Steel | 1.5" SCH 160 Seal Injection Piping |
| WPS-23 | 5"T x 18"L x 5"W | C0123-2 | SA533 Grade B Class 1 Carbon Steel | Pressurizer and Steam Generator Channel Head to Tube Sheet |
| WPS-24 | .312"T x 9"L x 2.5"W | F80085 | SA240 TP304 Stainless Steel | Volume Control Tank |
| WPS-25 | 14" SCH 40S .375"T | F70623 | A358 Class 2 TP304 Stainless Steel | Letdown Heat Exchanger |

Appendix B
Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|-----------------------------------|----------------------------|-------------------------------------|--|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-26 | 1.5"T x 13"L x 2.5"W | B6272 | SA516 Grade 70 Carbon Steel | Pressurizer Skirt, 31" Main Steam Piping and 30" Main Steam Tee |
| WPS-27 | 9.5" - .875"T | 155512 | A351 CF8 | Regenerative Heat Exchanger |
| WPS-29 | 7"T x 5.75" Diameter Stud Segment | P3199 | SA540 001-7 | --- |
| WPS-30 | .5"T x 9"L x 2.5"W | F80085 | SA240 TP304 Stainless Steel | Residual Heat Exchanger |
| WPS-31 | 10" SCH 120 .843"T | 6-448 | A312 TP304 Stainless Steel | 10" SCH 120 Piping |
| WPS-32 | 16" SCH 100 1.031"T | 89A410 | A106 Grade B Carbon Steel | 16" SCH 100 Feedwater Piping |
| WPS-33 | 16" SCH 120 1.219"T | 42794 | SA333 Grade 6 Carbon Steel | 16" SCH 120 Piping |
| WPS-34 | 14" SCH 60 .594"T | N33188 | SA106 Grade B Carbon Steel | 14" SCH 60 Piping |
| WPS-35 | 6"T x 20"L x 6"W | 125J596VAL | SA508 Class 2 Carbon Steel | Reactor Vessel Ligaments (Manual) |
| WPS-36 | 3.5"T x 18.25"L x 6"W | C5128 | SA533 Class 1 Carbon Steel | Steam Generator Secondary Side: Steam Generator Main Steam Nozzle Inside Radius Corner |
| WPS-37 | 30" - 1.10"T | 3G5682 | SA515 Grade 70 Class 1 Carbon Steel | 30" Main Steam Piping |

Appendix B

Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|------------------------------|----------------------------|--------------------------------------|---|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-38 | 16" SCH 60 .656"T | 94558 | A106 Grade B Carbon Steel | 16" SCH 60 Feedwater Piping |
| WPS-39 | 32" - 2.3"T | 125J596VAL | SA508 Class 2 Carbon Steel | 32" - 2.3" T Main Steam Nozzles |
| WPS-40 | 5.75" Dia. x 56.625"L | 15045 | SA540 Grade B24 Carbon Steel | Reactor Vessel Closure Head Studs |
| WPS-41 | 4.50" Dia. x 30.50"L | 3P4028 | SA540-68A Grade B24- Carbon Steel | Reactor Coolant Pump Main Flange Bolts |
| WPS-42 | 16" Feedwater Nozzle Forging | Q2Q149NQT Q2Q150NQT | SA508 Class 2A Carbon Steel | Steam Generator Feedwater Nozzle Inner Radius |
| WPS-RV-1 | 16"T&L x 31"L&T x 8.625"W | 22231/39088 | SA508 Class 3 Carbon Steel | Reactor Vessel Flange to Vessel from Seal Surface and Reactor Vessel Nozzle to Shell from Nozzle Bore |
| WPS-RV-2 (Modified 02/14/95) | 9"T x 32"L x 6"W | 125J596VAL | SA508 Class 2 Carbon Steel | Reactor Vessel Flange to Vessel (I.D.), Reactor Vessel Integrally Welded Attachments and Reactor Vessel Nozzle to Shell from Vessel Shell |

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Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|-----------------------------|------------------------------------|--|---|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-RV-3 | 7"T x 28"L x 6"W | 125J596VAL | SA508 Class 2 Carbon Steel | Reactor Vessel Nozzle Inside Radius Section, Reactor Vessel Upper Shell and Reactor Vessel Intermediate Shell |
| WPS-RV-4 | 5"T x 18"L x 6"W | 125J596VAL | SA508 Class 2 Carbon Steel | Reactor Vessel Flange Ligaments, Reactor Vessel Lower Head and Reactor Vessel Ring to Disc. |
| WPS-SIS-01 (Lost by WNSD 08/10/94) | 6"T x 15"L x 4"W | 125J596VAL | SA508 Class 2 Carbon Steel | Reactor Vessel SIS Nozzle to Shell and Reactor Vessel SIS Nozzle Inside Radius Section |
| WPS-RV-Safe-3 (Modified 02/14/95) | 2.5"T x 12.5"L x 4"W | 4952/P53627 | SA508 Class 2 Carbon Steel/SA182 TP316 Stainless Steel | Reactor Vessel Nozzle to Safe-Ends and Bore Portion of Nozzle Inner Radius |
| WPS-43 (Modified 02/14/95) | 3.02"T x 12.0"L x 12.0"W | C1488 | A351 Grade CF8M | Reactor Coolant Circumferential Piping: Reactor Vessel Nozzle to Safe-ends |
| WPS-44 | 3.18"T x 12.0"L x 12.0"W | 5160C-1 | SA351 Grade CF8A | Reactor Coolant Longitudinal Piping Seams |
| WPS-45 | 19.25"H x 11.65"L x 5.72" W | 280593 | SA216-92 Grade WCC Carbon Steel | 4" Pressurizer Spray Nozzle Inside Radius Section |

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Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|---------------------------------|----------------------------|-----------------------------------|---|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-46 | 8.375"H x 11.125"L x 7.68"W | 280593 | SA216-92 Grade WCC Carbon Steel | 14" Pressurizer Surge, 6" Pressurizer Safety and 6" Pressurizer Relief Nozzle Inside Radius Section |
| WPS-47 | 15.9375" OD x 10.125"ID x 2.9"T | 502979 | A182 F316 Stainless Steel | Reactor Coolant Pipe 12" Branch Connection Nozzle |
| WPS-48 | 14.125" OD x 8.75" ID x 2.69"T | 502979 | A182 F316 Stainless Steel | Reactor Coolant Pipe 10" Branch Connection Nozzle |
| WPS-49 | 11.5625" OD x 7.0"ID x 2.34"T | 502979 | A182 F316 Stainless Steel | Reactor Coolant Pipe 8" Branch Connection Nozzle |
| WPS-50 | 9.1875" OD x 5.25" ID x 2.0" T | 502979 | A182 F316 Stainless Steel | Reactor Coolant Pipe 6" Branch Connection Nozzle |
| WPS-51 | 6" SCH 80S | 51069 | A312 TP304 Stainless Steel | 6" SCH 80S Containment Spray Piping |
| WPS-52 | 1.5"T x 9.0"L x 2.0"W | 803N6600 | A516 Grade 70 Carbon Steel | Reactor Building Containment Vessel |
| WPS-53 | 3.15"T x 13.82"L x 7.59"W | 86616/3 | SA533 Class 2 Type B Carbon Steel | Replacement Steam Generator Secondary Side |
| WPS-54 | 5.0"T x 18.50"L x 7.51"W | 513150-000 | SA508 Class 3A Carbon Steel | Replacement Steam Generator Channel Head To Tubesheet |

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Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|----------------------------|----------------------------|--------------------------------------|--|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-54 | 5.0"T x 18.50"L x 7.51"W | 513150-000 | SA508 Class 3A Carbon Steel | Replacement Steam Generator Channel Head To Tubesheet |
| WPS-55 | 3.27"T x 15.74"H x 19.68"W | 513150-000/IH738 | SA508 Class 3A/ SA336 Grade 316LN | Replacement Steam Generator Primary Side Nozzle Inside Radius Section |
| WPS-56 | 16" 0.900"T | L42225 | A106 Grade B Carbon Steel | Replacement Steam Generator Feedwater Nozzle To Pipe |
| WPS-57 | 3.28"T x 5.669"H x 19.68"W | 513150-000/IH738 | SA508 Class 3A/ SA336 Grade 316LN | Replacement Steam Generator Primary Nozzle To Safe End |
| WPS-58 | 19" - 1.380"T | 310WNH7 | SA508 Class 3A Carbon Steel | Steam Generator Feedwater Nozzle To Nozzle |
| WPS-59 | 3" SCH 160 0.438"T | A62020 | A106 Grade B/C Carbon Steel | 3" SCH 160 Auxiliary Feedwater Piping |
| WPS-60 | 3" SCH 80 0.300"T | A62385 | A106 Grade B Carbon Steel | 3" SCH 80 Auxiliary Feedwater Piping |
| WPS-61 | 4" SCH 80 0.337"T | | SA333 Carbon Steel | 4" SCH 80 Auxiliary Feedwater Piping |
| WPS-62 | 12" SCH 40S 0.375"T | | A358 TP304 Stainless Steel | 12" SCH 40S Containment Spray Piping |
| WPS-63 | 2" – 3000 lb Coupling | EDN | SA182 SF304 Stainless Steel | Accumulator Tank 1A and 1B 2", 1" and 3/4" Coupling |

Appendix B

Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|-----------------------|--|---|--|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-64 | 2" – 3000 lb Coupling | EDN | SA182 SF304 Stainless Steel | Accumulator Tank 1A and 1B 2", 1" and 3/4" Coupling |
| WPS-65 | 16" SCH 10 0.250"T | 732253 | A312 TP304 Stainless Steel | 16" SCH 10S Safety Injection Piping |
| WPS-66 | 12" SCH 10S 0.180"T | 732396 | A312 TP304 Stainless Steel | 12" SCH 10S Safety Injection Piping |
| WPS-67 (UGG- CB-025) | 4.0" – 0.625"T | Q3NK03 1/ ONNC9508/ D272007A02-5 | SA182 Grade F316 Stainless Steel to SB-167 Alloy 690 | Replacement Reactor Vessel Closure Head Full Length Control Rod Drive Mechanism Latch Housing and Adaptor, Spare Control Rod Drive Mechanism and Core Exit Thermal Nozzle Assembly |
| WPS-68 (UGG- CB-026) | 4.0" – 0.625"T | Q3NK03 1/ ONNC9508/ D272007A02-5 | SA182 Grade F316 Stainless Steel to SB-167 Alloy 690 | Replacement Reactor Vessel Closure Head Full Length Control Rod Drive Mechanism Latch Housing and Adaptor, Spare Control Rod Drive Mechanism and Core Exit Thermal Nozzle Assembly |
| WPS-69 (UGG- CB-023) | 4.0" – 0.625"T | NKM 805 36 | SA182 Grade F316 Stainless Steel | Replacement Reactor Vessel Closure Head Spare Control Rod Drive Mechanism |
| WPS-70 (UGG- CB-024) | 4.0" – 0.625"T | NKM 805 36 | SA182 Grade F316 Stainless Steel | Replacement Reactor Vessel Closure Head Spare Control Rod Drive Mechanism |

Appendix B

Calibration Blocks

| KEWAUNEE POWER STATION CALIBRATION BLOCKS | | | | |
|--|------------------|----------------------------|-------------------------------------|--|
| IDENTITY | SIZE/SCHEDULE | IDENTITY OR HEAT NUMBER | MATERIAL | COMPONENT/SYSTEM |
| WPS-71 (UGG- CB-022) | 7.385" – 0.590"T | NKM 806 37 | SA182 Grade F316 Stainless Steel | Replacement Reactor Vessel Closure Head Full Length Control Rod Drive Mechanism Rod Travel Housing and Latch Housing |
| WPS-SIS-01-R1 | 6"T x 13"L x 4"W | 123J414 | A508 Class 2 Carbon Steel | Reactor Vessel SIS Nozzle to Shell and Reactor Vessel SIS Nozzle Inside Radius Section |

APPENDIX C

PROCEDURES

The following procedures will be utilized to implement the Second 10-Year Inservice Inspection (ISI) Interval 2006-2016 ASME Boiler and Pressure Vessel Code Section XI Class MC Program:

- 1. SP 55-318: Reactor Building Containment Vessel Ten Year Inservice Inspection Requirements**
- 2. GNP-01.05.02: Reactor Building Containment Vessel Indication Evaluation For Inservice Inspection**
- 3. NAD - 01.05: Inservice Inspection Program Implementation**
- 4. NAD-05.11: Revision and Control of the ISI Plan**
- 5. NEP- 15.35: Ultrasonic Thickness Measurement of Reactor Building Containment Vessel for Inservice Inspection**
- 6. NEP-15.36: Visual Examination of Reactor Building Containment Vessel For Inservice Inspection**