WPPSS
NUCLEAR PROJECT
NO. 2

INSERVICE INSPECTION PROGRAM PLAN

VOLUME 1

PROGRAM PLAN

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

Copy No. 22

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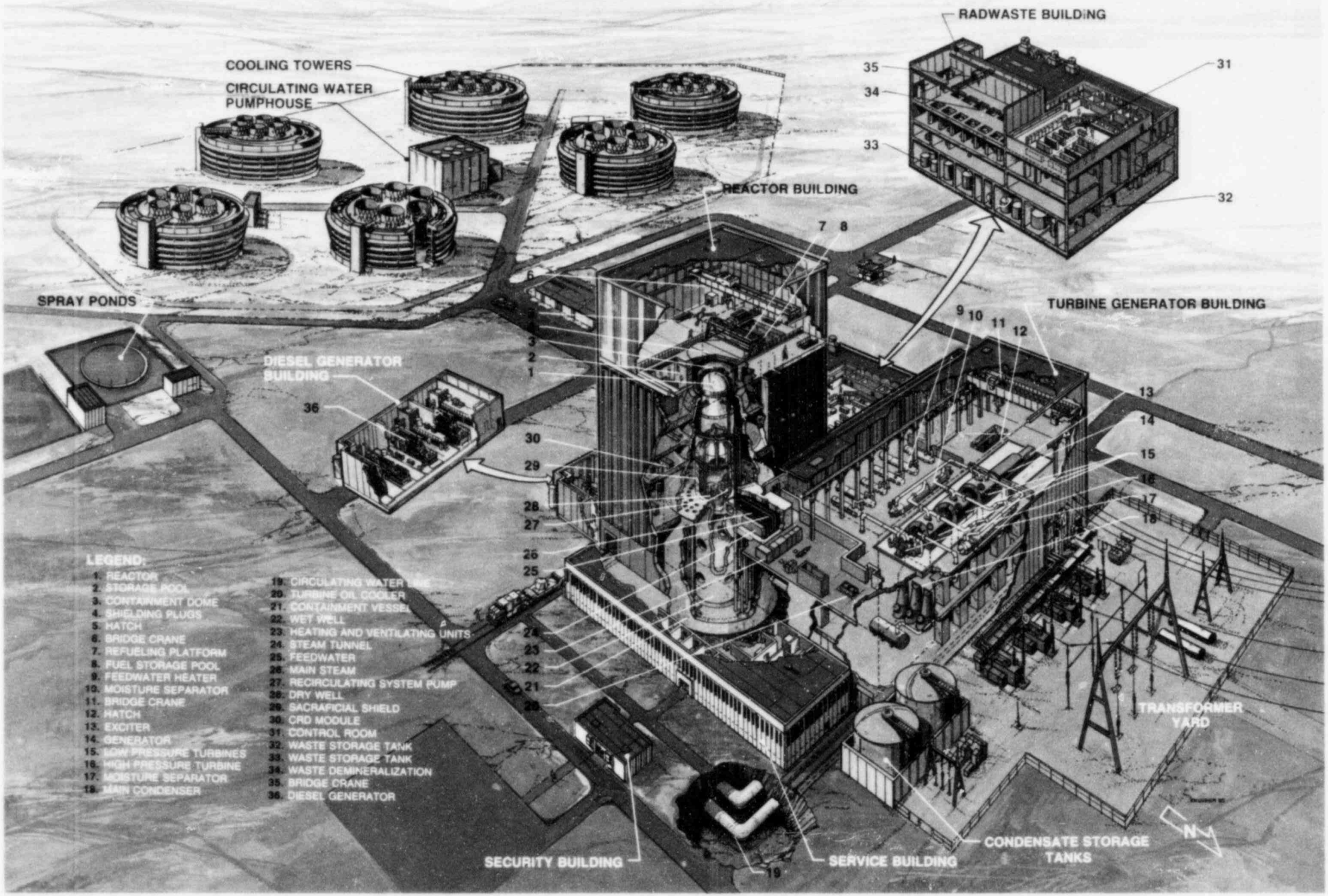
WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

NUCLEAR PROJECT NO. 2



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Revision 0

INSERVICE INSPECTION PROGRAM PLAN

FOR THE

WPPSS NUCLEAR PLANT NO. 2

Owner: Washington Public Power Supply System
3000 George Washington Way
Richland, Washington 99352

Plant: WNP-2, located 11 miles north of Richland, Washington on the U.S. Department of Energy Hanford Reservation.

Commercial Service Date: December 13, 1984

Capacity: 1,145 MWe

Reactor Pressure Vessel: Manufacturer: CBIN Serial Number: T-45
State No.: N/A Nat'l Bd. No.: CBIN-8

Prepared By:	Douglas P. Ramsey ISI Engineer	4-16-85 Date
Reviewed By:	Thomas D. Hoyle Supervisor, Code Programs	4-23-85 Date
	Ken J. Harrold Manager, ISI/NDE	4-24-85 Date
	for D W Boter Manager, Engineering Systems Support	4-24-85 Date
	Manager, Plant Quality Assurance	4-29-85 Date
	Manager, Plant Technical	4/29/85 Date
Approved By:	L T Harrold Ass't. Director, Generation Engineering	5-1-85 Date
Approved By:	C M Powers Plant Manager	5/3/85 Date
Concurrence:	James G. Brent Authorized Nuclear Inspector (Inservice)	5/6/85 Date

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Tables	1-8	04/25/85
MS-105	1	2
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	3	2
Tables	1-2	04/25/85
MS-106	1	2
	2	1
	3	1
	4	1
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MS-201	1	3
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	2	0
	3	0
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MS-305	1	0
	2	0
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MS-306	1	0
	2	0
	3	0
Tables	1	04/25/85
MS-307	1	0
	2	0
	3	0
Tables	1	04/25/85
MS-308	1	0
	2	0
	3	0
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MS-309	1	0
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	3	0
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Tables	1-8	04/25/85
MS-105	1	2
	2	2
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Tables	1-2	04/25/85
MS-106	1	2
	2	1
	3	1
	4	1
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MS-201	1	3
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	3	4
	4	3
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MS-202	1	4
	2	3
	3	4
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	3	4

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	2	3
	3	4
	4	2
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MS-205	1	2
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MS-206	1	1
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MS-207	1	0
	2	0
MS-208	1	0
	2	0
MS-209	1	0
	2	0
MS-210	1	0
	2	0
MS-211	1	0
	2	0
MS-212	1	0
	2	0
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	2	0

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MS-217	1	0
	2	0
MS-218	1	0
	2	0
MS-219	1	0
	2	0
MS-220	1	0
	2	0
MS-221	1	0
	2	0
MS-222	1	0
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MS-301	1	0
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	2	0
Tables	1	04/25/85
MS-306	1	0
	2	0
	3	0
Tables	1	04/25/85
MS-307	1	0
	2	0
	3	0
Tables	1	04/25/85
MS-308	1	0
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	4	0
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	5	4
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RRC-103	1	1
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RRC-105	1	2
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RRC-106	1	1
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RRC-107	1	1
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RWCU-303	1	1
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	3	1
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RWCU-304	1	1
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	3	1
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CRD-201	1	0
	2	0
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	3	0
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	6	0
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	3	1
	4	1
	5	1
	6	1
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Table	1	04/25/85
SW-303	1	0
	2	1
	3	1
	4	1
	5	1
	6	1
	7	1
	8	1
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	3	1
	4	1
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SW-306	1	1
Table	1	04/25/85
SW-307	1	1
	2	1
	3	1
	4	1
	5	0
Tables	1-3	04/25/85
SW-308	1	1
Table	1	04/25/85
SW-309	1	1
Table	1	04/25/85
SW-310	1	
Table	1	04/25/85
SW-311	1	1
Table	1	04/25/85
SW-312	1	0
	2	0
Table	1	04/25/85
SW-313	1	0
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TITLE	SHEET	REV/DATE
14.0 Weld ID Diagrams (Cont'd)		
FPC-305	1	1
	2	1
	3	1
	4	1
	5	1
	6	1
	7	1
	8	1
	9	1
	10	1
	11	0
Tables	1-4	04/25/85
FPC-306	1	1
Table	1	04/25/85
FPC-307	1	1
Table	1	04/25/85
FPC-308	1	1
	2	1
	3	1
	4	1
Tables	1-2	04/25/85
RCC-201	1	0
Table	1	04/25/85
RCC-202	1	1
Table	1	04/25/85

Date 04/16/85
Revision 0

TITLE	SHEET	REV/DATE
14.0 Weld ID Diagrams (Cont'd)		
RCC-301	1	1
	2	1
	3	1
Tables	1-3	04/25/85
RCC-302	1	1
	2	1
Tables	1-2	04/25/85
RCC-303	1	0
	2	0
Table	1	04/25/85
RCC-304	1	0
	2	0
Table	1	04/25/85
EDR-201	1	1
FDR-201	1	0
Misc	N/A	N/A
Tables	1-8	04/25/85

3.0 PROGRAM DESCRIPTION

3.1 INTRODUCTION

This Inservice Inspection (ISI) Program Plan is applicable to the Washington Public Power Supply System Nuclear Plant No. 2 (WNP-2). This single unit Boiling Water Reactor (BWR) power plant is located 11 miles north of Richland, Washington, on the Hanford Reservation. The plant employs a General Electric (GE) supplied Nuclear Steam Supply System (NSSS) designated as BWR/5. The reactor is contained within an over-under drywell/wetwell containment vessel designated Mark II. The plants net rated electrical output is 1,145 MWe. The plant received its operating license December 20, 1983.

This Program Plan has been prepared as the controlling document governing the inservice examination activities at WNP-2 during the first 10-year inspection interval commencing with commerical operations. The requirements for inservice examinations are outlined in the ASME Boiler and Pressure Vessel Code, Section XI, entitled "Rules for Inservice Inspection of Nuclear Power Plant Components." The scope of this plan is limited to nondestructive examinations of ASME Section III Class 1, 2 and 3 piping systems, components and examination and testing of component supports. Inservice testing of pumps and valves, required by subsection IWP and IWV of ASME Section XI, is not included in this plan but is the subject of a separate document.

This Program Plan is prepared in accordance with the following:

1. ASME Section XI 1980 Edition, Winter 1980 Addenda.

2. ASME Section XI 1980 Edition, Winter 1981 Addenda (IWF-3400).

3. ASME Section XI 1983 Edition, Winter 1983 Addenda [Category C-F, IWA-2300(a)(1)].

4. Regulatory Guide 1.150, Revision 1 for Reactor Vessel Examinations.

5. Generic Letter 84-11, "Inspections of BWR Stainless Steel Piping", response contained in letter GO2-84-364, dated May 30, 1984.

6. NUREG 0313 Rev. 1, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping", response contained in letter GO2-81-268 dated September 2, 1981, and modified by letter GO2-83-833, dated September 14, 1983.

7. NUREG 0619, "BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking", response contained in letter GO2-82-36, dated January 13, 1982.

8. Inspection and Enforcement Bulletin 80-07, Supplement 1, "BWR Jet Pump Assembly Failure.

9. Inspection and Enforcement Bulletin 80-13, "Cracking in Core Spray Spargers".

10. Certain nonmandatory augmented examinations performed voluntarily by, and at the discretion of the Supply System.

3.2 PROGRAM PHILOSOPHY

The overall intent of the Supply System in preparing the WNP-2 Inservice Inspection (ISI) Program Plan is to develop a program which reflects a good balance of the following objectivies and constraints:

a. To the maximum extent practical, comply with the approved Codes, Regulations, and commitments governing the inservice inspection of WNP-2 during the first 10-year inspection interval.

b. Minimize the cost and schedule impact of the required examination activities during plant operation and refueling outages.

c. Develop a program which includes the philosophy of the latest addenda of ASME Section XI.

The Supply System believes that the WNP-2 Inservice Inspection Program Plan reflects the above philosophy and as such will result in a program of inspections which are in the best interest of the health and safety of the general public.

3.3 PROGRAM SCOPE

This Program Plan governs all manual and automated nondestructive examinations, visual examinations, evaluations, and reporting activities required by ASME Section XI as invoked by 10CFR50.55a and applicable augmented examination requirements.

3.3.1 RPV EXAMINATIONS

The design of the RPV shield wall and external inservice inspection system was completed prior to the promulgation of amendments to 10CFR 50.55a which required the upgrading of the utilities inservice inspection code commitment for examinations subsequent to the baseline examination. The design allows access to approximately 35% of shell circumferential and 90% of vessel longitudinal welds.

Access to the external surface of the RPV for inservice inspection is provided by removable insulation panels and shield plugs. Hinged shield wall doors around the nozzles provide access to the nozzles and to the pole tracks on shell courses 2 and 3. Access to the pole tracks above the shield wall is

through removable panels at the top of the tracks. Access to the bottom head track is through a door in the shield wall and through openings in the RPV support skirt. The pole tracks on shell course 1 are accessable from the bottom. Drawings RPV-102 and RPV-103 (section 14.0) show the location of the pole tracks.

The RPV vessel flange area and vessel closure head can be examined during refueling outages using manual ultrasonics techniques. The volumetric examination of the vessel-to-flange weld and closure head-to-flange weld can be performed by applying the search units directly to the seal surface areas. The vessel-to-flange weld will also be examined from the vessel shell surface.

The closure head is dry stored during refueling which will allow direct manual examination. Removable insulation allows examination of the head welds from the outside surface. The RPV nuts and washers are removed to dry storage and can be examined during refueling. Selected studs will be examined during refueling so that all studs will be examined during the inspection interval.

Access to the interior of the RPV is gained by removal of the steam dryer and steam separator assembly during refueling. The RPV interior will be examined using remote visual techiques.

The volumetric examination technique of the RPV will comply with the Reference Code and the requirements of Regulatory Guide 1.150 Revision 1, Appendix A "Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Examinations".

3.3.2 NSSS, BOP PIPING AND COMPONENTS EXAMINATIONS

The manual examinations of NSSS piping, BOP piping and components will be performed to the requirements of the Reference Code to the maximum extent practical. Access has been provided in design to comply with ASME Section XI. Some components such as the RHR pumps and the RHR heat exchangers were designed to an earlier code which did not require inservice inspection. Therefore access limitations do exist. These components will be examined to the Reference Code to the extent practical. Limitations to examination are identified in the requests for relief found in Section 4.6.

The 1980W80 code requirements for the Emergency Core Cooling System (ECCS) are under development by the ASME Code Committee, NRC and industry representatives including the Supply System. The Supply System will instead comply with ASME Section XI 1983 Edition Winter 1983 Addenda for all Code Category C-F welds as allowed by Letter A. Schwencer to G.C. Sorensen "WNP-2, Inservice Inspection Program dated May 11, 1984.

3.3.3 AUGMENTED INSERVICE INSPECTION

The Supply System will implement mandatory and nonmandatory augmented examinations during the inspection interval. The mandatory augmented examinations are committed to by the Supply System in the FSAR or in response to NRC questions. Nonmandatory augmented examinations are examinations that the Supply System has committed to internally to monitor wall thickness of certain welds, piping and valve bodies identified prior to operation. For details of these programs and the affected components refer to Sections 5.3 and 5.4.

3.3.4 VISUAL EXAMINATIONS

The Supply System will perform visual examinations as required by the Reference Code, the FSAR and the Plant Technical Specifications. The examinations are described under two programs. One program, found in Section 6.0, contains the visual examinations of the component supports and snubber testing. The other program, found in Section 8.0, contains the remaining items requiring visual examination.

3.3.5 ADDITIONAL EXAMINATIONS

When ISI examinations reveal indications that exceed the allowable indications standards of IWB-3000 or IWC-3000 additional examinations of similiar components or areas will be performed. These additional examinations will be chosen from the same category and contain approximately the same number of components as the first group.

If the second group reveals indications that exceed the allowable indications standards of IWB-3000 or IWC-3000, the remaining similiar components in that examination category will be examined.

3.4 PROGRAM SUMMARY

Following is a listing of the Program Plan Sections with brief summaries of the purpose and content of certain sections. This summary is intended to orient the reader with the organization of the Program Plan. Details regarding the use of a given section are found in the introduction to that section.

1.0 TABLE OF CONTENTS

2.0 RECORD OF PROGRAM PLAN REVISIONS

Identifies latest revision of each page of the program plan.

3.0 PROGRAM DESCRIPTION

Contains an overview of the Program Plan.

4.0 CODE COMPLIANCE

Identifies applicable code commitments, code cases, code exemptions and code applicability. Contains requests for relief.

5.0 FSAR/NRC COMMITMENTS/AUGMENTED EXAMINATIONS

Identifies FSAR commitments and applicable augmented inspection requirements.

6.0 COMPONENT SUPPORT PROGRAM

Contains the component support and snubber testing program.

7.0 ISI BOUNDARY DIAGRAMS

Illustrates on system P&ID type drawings, the boundaries of inservice inspection, and the types of examinations performed on each portion of each system.

8.0 VISUAL EXAMINATION PROGRAM AND PRESSURE TESTS

Describes the visual examination program. Describes the pressure tests required by ASME Section XI.

9.0 UT CALIBRATION STANDARDS

Tabulates the various ultrasonic calibration standards, their material, their applicability, and their identification numbers. Also included are design drawings for each standard.

10.0 PROCEDURES

Describes how the procedures for ISI will be handled. A list of procedures used will be included in the ISI Summary Reports.

11.0 MANAGEMENT PLAN

Describes the responsibilities and interfaces between all participants in Inservice Inspection Program activities.

12.0 ASME SECTION XI REPAIRS/REPLACEMENTS

Describes how repairs/replacements to ASME Section III components will be performed.

13.0 ISI REPORT SUBMITTALS

Identifies the format and content of the Inservice Inspection Summary Report and the anticipated filing schedule for the report.

14.0 WELD AND COMPONENT IDENTIFICATION DIAGRAMS

Illustrates on piping isometric-type drawings, each pipe spool and associated welds and components which require examination per the ISI Boundary Diagrams in Section 7.0. Each weld and component requiring surface, visual (VT-1, VT-3, VT-4) or volumetric examination is assigned a unique ISI identification number which is used exclusively in referring to that weld on all examination drawings, tables, examination records, and reports. Following each weld identification drawing involving surface visual and volumetric examinations are a series of tables which list each examination area on the drawing and the examination requirements for the examination area.

3.5 SCHEDULE

Inspection Program B, as defined in ASME Section XI paragraph IWA-2420, will be used. This program contains 10 year inspection intervals. These intervals represent calender years after the reactor has been placed in commercial service. The interval may be extended by up to one year to permit the examinations to coincide with plant outages.

The inspection interval is divided into 3 inspection periods. A certain minimum/maximum percentage defined by Section XI of the examinations are required to be completed each inspection period.

The outages in which ISI will be performed will be determined by the Plant Manager. They will usually correspond to major outages for maintenance or refueling. Major ISI activities will be incorporated into the plant outage schedule.

3.6 DEFINITION OF TERMS AND ABBREVIATIONS

The following terms and abbreviations are defined below as they are used in this document.

Access: The ability to perform nondestructive examinations (NDE) on a weld or component in accordance with applicable Codes, Standards, and Regulatory Requirements. Access may include ability to physically reach the point of examination; proper weld contouring and surface finish; proper weld geometry; adequate clearances from a weld to adjacent structures, fittings, restraints; removability of insulation; adequate radiation protection; and lighting.

Activation: The parameter that verifies restraining action.

Alternative Examination: Examination performed in lieu of the minimum Code requirements which is the closest practical approach to Code compliance.

Analysis: Process of determining the pertinent characteristics of an indication--such as its origin (crack, porosity, laminations, etc.), location, orientation, and may include sizing.

BOP: Balance of Plant

Breakaway Force: The minimum applied force required to initiate extension or retraction of the snubber.

Calibration Block (Standard): An NDE calibration device used to simulate defects in a weld or component, the purpose of which is to calibrate ultrasonic or other NDE equipment.

Code Acceptance Standards: Acceptance standards for flaw indications as defined in ASME Section XI, IWB-3000 and IWC-3000.

Components: Items in a power plant such as vessels, piping systems, pumps and valves.

Component Support: A metal device that is designed to transmit loads from the component to the load carrying building or foundation structures.

Defect: A flaw in a weld or component material which exceeds Code acceptance standards. Only by direct observation of the flaw, usually following excavation of covering material, is the presence of a defect confirmed. Prior to such confirmation, the term "Reportable Indication" shall be used.

Drag Force: The force required to maintain the snubber movement at a constant velocity prior to activation.

Evaluation: As used pertaining to indications, the process of applying Code acceptance criteria to determine the acceptability or rejectability of an indication.

Examination: A performance of a nondestructive examination (NDE) method such as visual observation, radiography, ultrasonic, liquid penetrant, and magnetic particle.

Examination Equipment: Instruments, mechanical devices, data acquisition systems, tracks, film, sources, etc., used to accomplish a nondestructive examination.

Examiner: Person performing an nondestructive examination.

Flaw: An indication which is determined to be other than geometric; which may be a crack, slag, inclusion or segregates; aligned or clustered rounded indications; lack of weld penetration; lack of weld fusion, lamination, or combinations thereof.

Inaccessible: An examination area which is within the scope of this document which cannot be fully examined in compliance with the applicable Codes, Standards, and Regulations due to insufficient access.

Inaccessible Snubbers: Those snubbers that are in a high radiation area or other conditions that would render it impractical for the snubbers to be examined under normal plant operating conditions without exposing plant personnel to undue hazards.

Indication: Evidence or signal obtained by application of an examination technique that may reveal the presence of a flaw or surface degradation or may be caused by geometry or material properties.

Inspection: Denotes verifying the performance of examinations and tests by an Inspector representing a state or municipality of the United States, Authorized Inspection Agency, or other enforcement authorities having jurisdiction over the nuclear power components at the WNP-2 site.

Inspection Interval: The 10-years following initial start of power unit commerical operation, and each subsequent 10 years.

Inspection Period: The inspection interval is divided into 3 inspection periods, 1st period, 0-3 years, 2nd period, 4-7 years, and 3rd period, 8-10 years of plant service.

Inspector: "Authorized Nuclear Inservice Inspector" as defined in ASME Section XI, subarticle IWA-2130.

Inservice Inspection (ISI): Inspection and examination activities performed in accordance with ASME Section XI, which include preservice inspection (PSI) activities.

NSSS: Nuclear Steam Supply System

Owner Recording Criteria: Requirements the Owner places on ISI examinations in addition to the requirements of the reference code..

Performing Organization: That organization within the Supply System which is responsible for completing ISI examinations and tests.

Preservice Inspection (PSI): Inspection act vities performed before the plant enters service.

RPV: Reactor Pressure Vessel

Recordable Indication: An indication which equals or exceeds Owner recording criteria. The Owner recording criteria may be more restrictive than the Code requirements, but will not be less restrictive than the Code requirements.

Reportable Indication: Any indication which equals or exceeds Code reporting criteria.

Reference Code: The ASME Section XI Edition and Addenda with which the ISI Program Plan will comply with.

Release Rate: The rate of the axial snubber movement under a specified load after activation of the snubber took place.

Safety-Related: Systems or parts of systems defined in FSAR Table 3.2-1 as Quality Control Class I.

Sizing of Indications: Application of the sizing criteria given in ASME Section XI, IWB-3000 and IWC-3000, to determine the size of a flaw indication--part of the evaluation process.

Snubber: A device which provides restraint to a component or system during a sudden application of forces but allows essentially free motion during thermal movement.

Surface Examination: Liquid penetrant or magnetic particle examinations performed in accordance with the applicable Codes, Standards, and Regulations.

System Leakage Test: A system pressure test performed at nominal operating pressure following opening and reclosing of a pressure boundary. A VT-2 visual examination is performed in conjunction with this test.

System Functional Test: A system pressure test performed while system is under normal operating pressure to verify operability in systems (or components) not required to operate during normal plant operation. A VT-2 visual examination is performed in conjunction with this test.

System Inservice Test: A system pressure test conducted to perform visual examination VT-2 while system is in service under operating pressure.

System Hydrostatic Test: A system pressure test conducted during a system outage at a pressure above nominal operating pressure for which overpressure protection is provided. A VT-2 visual examination is performed in conjunction with this test.

System Pneumatic Test: A system pressure test conducted in lieu of a hydrostatic pressure test for components within the scope of IWC and IWD. A VT-2 visual examination is performed in conjunction with this test.

Visual Examinations: Examinations using visual techniques; either using the eye through direct observation or by the use of remote equipment such as mirrors, borescopes, television, etc.

Volumetric Examinations: Radiographic, eddy current, or ultrasonic examinations performed in accordance with applicable Codes, Standards, and Regulations.

4.0 CODE COMPLIANCE

4.1 CODE COMMITMENTS

Inservice Inspection of Nuclear Power Plant Components is required by federal law as stated in the Code of Federal Regulations, Title 10, Part 50 (10CFR50), Paragraph 50.55a. According to that document the applicable edition of ASME Section XI for the first inservice inspection interval at WNP-2 is the 1980 Edition, Winter 1980 Addenda [(see 10CFR50.55a (g)(4)(i)]. The reference code is 1980W80 with the following sections upgraded to later Editions and Addenda:

IWA-2300(a)(1) upgraded to 1983W83
C-F upgraded to 1983W83
IWF-3400 upgraded to 1980W81

Table 4.1 summarizes the code applicability for the various plant components and Supply System augmented requirements in tabular form for ease of reference.

4.2 CODE CASES

The Supply System has reviewed the code cases in effect for applicability to the WNP-2 Inservice Inspection Program. The following code cases, accepted by the NRC and the State Boiler Inspector will be used by the WNP-2 ISI Program:

N-236 Containment Repair

N-308 NIS-2 Form

N-341 Certification of Level III NDE Examiner

N-343 Alternate Integral Attachment Exam

4.3 CODE EXEMPTIONS

The Supply System will, on a continuing basis, make every effort to assure compliance with the referenced code and regulatory commitments applicable to inservice examinations of the WNP-2 power plant. Where the code or regulatory requirements are not practical, relief will be requested.

The following exemptions are being applied in this ISI Program Plan. How they are applied is summarized below and where they are applied is summarized in the tables following each boundary diagram. (see Section 7.0)

4.3.1 ASME SECTION III, CLASS I SYSTEMS

IWB-1220 - The exemptions allowed by this paragraph have been applied to each Class 1 system requiring volumetric and/or surface examinations.

a) IWB-1220(a) The Supply System will exempt from volumetric and surface examination components that are of such size and shape so that upon postulated rupture the resultant coolant flow from the reactor coolant system under normal plant operating conditions is within the capacity of the makeup systems which are operable from on-site emergency power. This exemption is applied to all class 1 ISI boundaries as follows:

1) Class 1 piping penetrating the RPV below the normal reactor water level and 1.5 inch NPS or less,

2) and Class 1 piping penetrating the RPV above the normal reactor water level and 3.0 inch NPS or less.

The above exemption is supported by Calculation Number ME-02-78-01-1.

4.3.2 ASME SECTION III, CLASS 2 AND CLASS 3 SYSTEMS

The exemptions allowed by paragraphs IWC-1220 and IWC-1230 have been applied to each class 2 system requiring a volumetric and/or surface examination. The exemptions allowed by paragraph IWD-1220 have been applied to each class 3 system requiring examination under Table IWD 2500-1. The portions of the system where these exemptions have been applied are detailed in the Boundary Diagram tables found after each Boundary Diagram in Section 7.0.

4.4 CODE APPLICABILITY

Table 4.1 summarizes for each ASME Section XI item whether or not the Supply System ISI Program Plan complies with the reference code. Also included are Supply System augmented requirements.

For items that do not comply with the reference code, the request for relief number is identified. Requests for relief are found in Section 4.6.

4.5 EXAMINERS CERTIFICATION

The Supply System will use the provisions of ASME Section XI 1983 edition Winter 1983 addenda subarticle IWA-2300 (a)(1) for certification of Level III examiners. This subarticle provides for recertification of Level III examiners by examination every 5 years instead of every 3 years as per the 1980 edition Winter 1980 addenda of Section XI. The NRC has approved the Supply System's use of this subarticle by letter T. M. Novak to G. C. Sorensen, "Use of ASME Code Case N-341 for WNP-1, WNP-2 and WNP-3, Docket Nos. 50-460, 50-397 and 50-508, dated December 5, 1984

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
B1.10	Shell Welds				
B1.11	Circumferential	1968, S'70	No	ISI-2-001	1,2
B1.12	Longitudinal	1968, S'70	No	ISI-2-001	1,2
B1.20	Head Welds				
B1.21	Circumferential	1968, S'70	Yes		2
B1.22	Meridonial	1968, S'70	Yes		2
B1.30	Shell-to-Flange Weld	1968, S'70	Yes		2
B1.40	Head-to-Flange Weld	1968, S'70	Yes		2
B1.50	Repair Welds				
B1.51	Beltline Region	1968, S'70	Yes		2

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-B
PRESSURE RETAINING WELDS IN VESSELS OTHER THAN RPV

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
All	There are no Class 1 pressure vessels at WNP-2 other than the reactor vessel.		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-D
PENETRATION WELDS OF NOZZLES IN VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B3.90	Nozzle-to-Vessel Welds	1968, S'70	Yes		2
B3.100	Nozzle Inside Radius Sections	1968, S'70	Yes		3
All Other Item No.	Pertain to PWRs WNP-2 is a BWR		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-E
PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
B4.10	Partial Penetration Welds		Yes		2
B4.11	Vessel Nozzles		Yes		2,3
B4.12	Control Rod Drive Nozzles		Yes		
B4.13	Instrumentation Nozzles		Yes		
B4.20	Pressurizer Heater Penetration Welds		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B5.10	Nominal Pipe Size ≥4 in. Nozzle-to Safe End Butt Welds	1968, S'70	Yes		
B5.11	Nominal Pipe Size <4 in. Nozzle-to Safe End Butt Welds	1968, S'70	Yes		
B5.12	Nozzle-to-Safe End Socket Welds	1968, S'70	N/A		
	Piping				
B5.50	Nominal Pipe Size ≥4 in. Dissimilar Metal Butt Welds	1971, S'73	Yes		
B5.51	Nominal Pipe Size <4 in. Dissimilar Metal Butt Welds	1971, S'73	Yes		
B5.52	Dissimilar Metal Socket Welds	1971, S'73	N/A		
All Other Item No.	WNP-2 is a BWR. These items pertain to PWR.		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-G-1
PRESSURE RETAINING BOLTING GREATER THAN 2 IN. DIAMETER

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B6.10	Closure Head Nuts	1968, S'70	No	ISI-2-004	
B6.20	Closure Studs, in place	1968, S'70	Yes		
B6.30	Closure Studs, when removed	1968, S'70	Yes		
B6.40	Threads in Flange	1968, S'70	Yes		
B6.50	Closure Washers, Bushings	1968, S'70	Yes		
B6.150	Piping		N/A		
B6.160	No piping bolting greater than				
B6.170	2 in. diameter				
	Pumps				
B6.180	Bolts and Studs	1971	Yes		
B6.190	Flange Surfaces when connection disassembled	1971	Yes		
B6.200	Nuts, Bushings, and Washers	1971	Yes		
	Valves				
B6.210	Bolts and Studs	Various	Yes		
B6.220	Flange surfaces when connection disassembled	Various	Yes		
B6.230	Nuts, Bushing and Washers	Various	Yes		

Date 04/16/85

Revision No. 0

TABLE 4.1
ITEMIZED CODE APPLICABILITY

EXAMINATION CATEGORY B-G-2
PRESSURE RETAINING BOLTING 2 IN. AND LESS IN DIAMETER

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B7.10	Bolts, Studs and Nuts	1968, S'70	Yes		
	Piping				
B7.50	Bolts, Studs and Nuts	1971, S'73	Yes		
	Pumps				
B7.60	Bolts, Studs, and Nuts	1971	Yes		
	Valves				
B7.70	Bolts, Studs, and Nuts	Various	Yes		
	CRD Housings				
B7.80	Bolts, Studs and Nuts when disassembled	1968, S'70	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-H
INTEGRAL ATTACHMENTS FOR VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
B8.10	Reactor Vessel Integrally Welded Attachments	1968, S'70	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-J
PRESSURE RETAINING WELDS IN PIPING

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
B9.10	Nominal Pipe Size ≥4 in.				
B9.11	Circumferential Welds	1971, S'73	Yes	ISI-2-005	5
B9.12	Longitudinal Welds	1971, S'73	Yes	ISI-2-002	
B9.20	Nominal Pipe Size <4 in.				
B9.21	Circumferential Welds	1971, S'73	Yes	ISI-2-005	5
B9.22	Longitudinal Welds	1971, S'73	Yes	ISI-2-002	
B9.30	Branch Pipe Connection Welds				
B9.31	Nominal Pipe Size ≥4 in.	1971, S'73	Yes		
B9.32	Nominal Pipe Size ≤4 in.	1971, S'73	Yes	ISI-2-005	5
B9.40	Socket Welds	1971, S'73	Yes	ISI-2-002	

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-K-1
INTEGRAL ATTACHMENTS FOR PIPING, PUMPS AND VALVES

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Piping				
B10.10	Integrally Welded Attachments	1971, S'73	Yes		
	Pumps				
B10.20	Integrally Welded Attachments	1971	Yes		
	Valves				
B10.30	Integrally Welded Attachments WNP-2 does not have any valves with integrally welded attachments.		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORIES B-L-1, B-M-1 PRESSURE RETAINING WELDS IN PUMP CASINGS AND VALVE BODIES
EXAMINATION CATEGORIES B-L-2, B-M-2 PUMP CASINGS AND VALVE BODIES

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Pumps				
B12.10	Pump Casing Welds - WNP-2 does not have Class 1 pumps with casing welds.		N/A		
B12.20	Pump Casing	1971	Yes		
	Valves				
B12.30	Valves, nominal pipe size >4 in. valve body welds - WNP-2 does not have Class 1 valves with body welds.		N/A		
B12.31	Valves, nominal pipe size >4 in. valve body welds - WNP-2 does not have Class 1 valves with body welds.		N/A		
B12.40	Valve body exceeding 4 in. nominal pipe size.	1971, S'73	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-N-1, B-N-2 - INTERIOR OF REACTOR VESSEL, INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B13.10	Vessel Interior	1968, S'70	Yes		
	Reactor Vessel (BWR)				
B13.20	Interior Attachments	1968, S'70	Yes		
B13.21	Core Support Structure	1968, S'70	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-O
PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
B14.10	Reactor Vessel Welds in CRD Housing	1968, S'70	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY B-P
PRESSURE RETAINING BOUNDARY

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Reactor Vessel				
B15.10	Pressure Retaining Boundary (System Leakage Test)	1968, S'70	Yes		7
B15.11	Pressure Retaining Boundary (System Hydro Test)	1968, S'70	Yes		7
	Piping				
B15.50	Pressure Retaining Boundary (System Leakage Test)	1971, S'73	Yes		7
B15.51	Pressure Retaining Boundary (System Hydro Test)	1971, S'73	Yes		7
	Pumps				
B15.60	Pressure Retaining Boundary (System Leakage Test)	1971	Yes		7
B15.61	Pressure Retaining Boundary (System Hydro Test)	1971	Yes		7
	Valves				
B15.70	Pressure Retaining Boundary (System Leakage Test)	Various	Yes		7
B15.71	Pressure Retaining Boundary (System Hydro Test)	Various	Yes		7

Date 04/16/85

Revision No. 0

TABLE 4.1
ITEMIZED CODE APPLICABILITY

EXAMINATION CATEGORY C-A
PRESSURE RETAINING WELDS IN PRESSURE VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
C1.10	Shell Circumferial Welds	1968, S'70	Yes		
C1.20	Head Circumferial Welds	1968, S'70	Yes		
C1.30	Tubesheet-to-Shell Weld	1968, S'70	Yes		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-B
PRESSURE RETAINING NOZZLE WELDS IN VESSELS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
C2.10	Nozzles in Vessels ≥1/2 in. Nominal Thickness	1968, S'70	Yes		
C2.20	Nozzles in Vessels <1/2 in. Nominal Thicknes	1968, S'70	Yes		
C2.21	Nozzle-to-Shell (or Head) Weld	1968, S'70	Yes		
C2.22	Nozzle inside radius section	1968, S'70	Yes		

Date 04/16/85

Revision No. 0

TABLE 4.1
ITEMIZED CODE APPLICABILITY

EXAMINATION CATEGORY C-C
INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS AND VALVES

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Pressure Vessels				
C3.10	Integrally Welded Attachments	1971, S'72	Yes		
	Piping				
C3.40	Integrally Welded Attachments	1971, S'72	Yes		
	Pumps				
C3.70	Integrally Welded Attachments WNP-2 does not have any Class 2 pumps with integrally welded attachments		N/A		
	Valves				
C3.100	Integrally Welded Attachments WNP-2 does not have any Class 2 valves with integrally welded attachments		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-D
PRESSURE RETAINING BOLTING GREATER THAN 2 IN. IN DIAMETER

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
All	WNP-2 does not have any Class 2 bolting greater than 2 in. diameter		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-F
PRESSURE RETAINING WELDS IN PIPING

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
C5.10	Piping welds ≥ 3/8 in. Nominal wall thickness for piping NPS4				
C5.11	Circumferential weld	1971, W'73	Yes		4
C5.12	Longitudinal weld	1971, W'73	Yes		
C5.20	Not applicable, applies to PWR				
C5.21					
C5.22					
C5.30	Socket welds	1971, W'73	Yes		
C5.40	Pipe branch connection of branch piping ≥ NPS2*				
C5.41	Circumferential weld	1971, W'73	Yes		
C5.42	Longitudinal weld	1971, W'73	Yes		

* _ NPS4 for BWR

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-F
PRESSURE RETAINING WELDS IN PIPING

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
C5.50	Piping welds ≥ 3/8 in. Nominal wall thickness for piping NPS4				
C5.51	Circumferential weld	1971, W'73	Yes		
C5.52	Longitudinal weld	1971, W'73	Yes		
C5.60	Not applicable, applies to PWR				
C5.61					
C5.62					
C5.70	Socket welds	1971, W'73	Yes		
C5.80	Pipe branch connections of branch piping ≥ NPS2*				
C5.81	Circumferential weld	1971, W'73	Yes		
C5.82	Longitudinal weld	1971, W'73	Yes		

* _ NPS4 for BWR

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-G
PRESSURE RETAINING WELDS IN PUMPS AND VALVES

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
C6.10	Pump Casing Welds	1968, S'70	No		6
C6.20	Valve Body Welds WNP-2 does not have any Class 2 valves with body welds		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY C-H
ALL PRESSURE RETAINING COMPONENTS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
	Pressure Vessels				
C7.10	Pressure Retaining Components (System Leakage Test)	1971, S'73	Yes		7
C7.11	Pressure Retaining Components (System Hydro Test)	1971, S'73	Yes		7
	Piping				
C7.20	Pressure Retaining Components (System Leakage Test)	1971, S'73	Yes		4,7
C7.21	Pressure Retaining Components (System Hydro Test)	1971, S'73	Yes		4,7
	Pumps				
C7.30	Pressure Retaining Components (System Leakage Test)	1971, S'73	Yes		7
C7.31	Pressure Retaining Components (System Hydro Test)	1971, S'73	Yes		7
	Valves				
C7.40	Pressure Retaining Components (System Leakage Test)	Various	Yes		4,7
C7.41	Pressure Retaining Components (System Hydro Test)	Various	Yes		4,7

Date 04/16/85

Revision No. 0

TABLE 4.1
ITEMIZED CODE APPLICABILITY

EXAMINATION CATEGORY D-A
SYSTEM IN SUPPORT OF REACTOR SHUTDOWN FUNCTION

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
D1.10	Pressure Retaining Components	Various	Yes	ISI-2-006	7
D1.20	Integral Attachment - Component Supports and Restraints	1971, S'73	Yes		
D1.30	Integral Attachment Mechanical Snubbers	1971, S'73	Yes		
D1.40	Integral Attachment Spring type supports	1971, S'73	Yes		
D1.50	Integral Attachment Constant load type supports	1971, S'73	Yes		
D1.60	Integral Attachment Shock Absorbers		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY D-B, SYSTEMS IN SUPPORT OF EMERGENCY CORE COOLING, CONTAINMENT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND RESIDUAL HEAT REMOVAL

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
D2.10	Pressure Retaining Components	Various	Yes		7
D2.20	Integral Attachment Component Supports	1971, S'73	Yes		
D2.30	Integral Attachment Mechanical Snubbers	1971, S'73	Yes		
D2.40	Integral Attachment Spring Type	1971, S'73	Yes		
D2.50	Integral Attachment Constant Load	1971, S'73	Yes		
D2.60	Integral Attachment Shock Absorbers		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY D-C
SYSTEMS IN SUPPORT OF RESIDUAL HEAT REMOVAL FROM SPENT FUEL STORAGE POOL

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
D3.10	Pressure Retaining Components	Various	Yes		7
D3.20	Integral Attachments Component Supports	1971, S'73	Yes		
D3.30	Integral Attachments Mechanical Snubbers	1971, S'73	Yes		
D3.40	Integral Attachments Spring Type	1971, S'73	Yes		
D3.50	Integral Attachments Constant Load	1971, S'73	Yes		
D3.60	Integral Atachments Shock Absorbers		N/A		

TABLE 4.1
ITEMIZED CODE APPLICABILITY

Date 04/16/85

Revision No. 0

EXAMINATION CATEGORY F-A, F-B, F-C
COMPONENT SUPPORTS

ITEM NO.	DESCRIPTION	SECTION III CODE	COMPLIES WITH SECTION XI	REQUEST FOR RELIEF NO.	NOTES
F-1	Mechanical Attachments, including bolting	1971, W'73	Yes	ISI-2-003	
F-2	Welded Attachments	1971, W'73	Yes		
F-3	Component Displacement Settings of guides and stops Misalignment of supports Assembly of support items	1971, W'73	Yes		
F-4	Spring Type Supports Constant load type supports Mechanical Snubbers	1971, W'73	Yes		
N/A	Snubber Visual Examination Testing	1971, W'73	Yes	ISI-2-007	Complying with WNP-2 Tech Spec 3/4.7.4 which has more stringent requirement than Section XI.

Date 04/16/85

Revision 0

NOTES TO TABLE 4.1

1. The design of the RPV shield wall and external inservice inspection system was completed before the code required 100% of the welds to be examined. Approximately 35% of vessel circumferential welds and 90% of vessel longitudinal welds are accessible.

2. The examinations will be augmented by complying with Reg. Guide 1.150 Rev. 1 Appendix A "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations", dated June 1981, Revised Febuary 1983.

3. An augmented examination of the Feedwater nozzle inner radius will be performed as described in Section 5.3.2.

4. The Main Steam Class 2 system does not perform a safety-related function and is capable of automatic isolation therefore it does not require pressure testing. See Table IWC-2500-1 Category C-H, note 7 of the reference code.

5. Austenitic stainless steel lines, defined in the Supply System's response to NUREG 0313, Rev. 1 (see Section 3.1 Item 3), will be subject to more frequent examinations. All crack like indications will be recorded.

6. The RHR pumps were designed prior to the requirement to Perform Class 2 component examinations for Inservice Insepction. The pump casings are embedded in a pump pit which allows no access from the outside surface. The upper flange is at floor level. The welds are accessible from the inside, if the pump impeller is removed. Removal of the pump impeller is considered impractical and not in the interest of safety, both from a potential pump damage or reassembly error and from a radiation exposure stand point. Also per 10CFR50.55a (g) (4) access is not required to be upgraded to the Inservice Inspection Code. Drawing RHR-213 in Section 14.0 illustrates the pump installation details.

   The welds in the request for relief are inaccessible to all examination methods. If the internals are removed for maintenance the Supply System will evaluate whether inservice examination is practical.

7. The Pressure Retaining boundary will not extend past the transition from instrument piping to instrument tubing. Instrument tubing will not be subject to a visual examination during system pressure tests.

4.6 REQUESTS FOR RELIEF FROM CODE REQUIREMENTS

This section contains the Supply System's requests for relief from the referenced code requirements. The Supply System has determined that the items in this section are not practical to examine to the requirements of the reference code. Each item is supported by the basis for not performing the examination per the reference code.

All requests for relief in this section apply during the entire first inspection interval. The alternate examinations will be performed during the first inspection interval.

The following requests for relief are included in this section:

Request #	Description
ISI-2-001	RPV welds in Code Category B-A that could not be fully examined.
ISI-2-002	4 inch decontamination connections on RRC.
ISI-2-003	Component Supports (SW and RCIC supports).
ISI-2-004	RPV nuts.
ISI-2-005	Use of Appendix III for austenitic welds.
ISI-2-006	MSRV Discharge Piping.
ISI-2-007	Snubber examination and testing.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

Component or System

ASME Class 1, Section XI Category B-A pressure retaining welds in reactor pressure vessel. List attached.

Code

All of the subject welds were designed and fabricated to ASME Section III Class 1 1968 Edition, Summer 1970 Addenda. The Inservice Inspection is to be performed to the 1980 Edition Winter 1980 Addenda of ASME Section XI.

Number of Welds

Category	No.
B-A	13

Section XI Requirements

Section XI requires examination of 100% of the pressure retaining welds in Category B-A be performed completely. The following examinations are required:

B-A All pressure retaining welds in Reactor vessel. Volumetric

Basis for Requesting Relief

Relief is required from ASME Section XI examination requirements on the basis of partial inaccessibility of the weld due to plant design. The design and access provisions complied with earlier codes which did not require 100% examination. Per 10CFR50.55a (g) (4) access is not required to be upgraded to the Inservice Inspection Code.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

Alternative Examinations: None

Impact on Plant Quality and Safety: There will be no adverse impact on plant quality and safety by doing only a partial code examination of these welds.

1. The Class 1 RPV welds have passed radiographic, magnetic particle and ultrasonic examinations in accordance with Section III.

2. All of the identified welds will be subject to a system pressure test in accordance with Section XI Class 1 or 2 requirements.

3. Leak detection systems identify significant leakage in the areas of the subject welds. Appropriate operator action would occur due to leak detection system alarms.

4. Other similar welds in the vessel or same piping run will receive full code examinations. The integrity of the pressure boundary can thus be verified by sampling.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

CATEGORY B-A

ISO. NO.	WELD NUMBER	DESCRIPTION	SECTION III EXAM	REMARKS
RPV-101	AE	Vessel to Flange	MT, UT, RT	Thermocouples at 135°, 270° and 360°
RPV-101	AD	#3-#4 SC-CRC WD	MT, UT, RT	7 2-foot long key lugs obstruct weld at 45° intervals
RPV-101	BJ	#3 SC VRT WD at 50°	MT, UT, RT	Key lug at weld AD intersection.
RPV-101	BK	#3 SC VRT WD at 170°	MT, UT, RT	Key lug at weld AD intersection.
RPV-102	DA	BTM HD MRD at 272°	MT, UT, RT	Thermocouples at weld AA intersection
RPV-102	DG	BOT HD DOL at 270°	MT, UT, RT	See Note 1
RPV-102	DR	BOT HD DOL at 90°	MT, UT, RT	See Note 1
RPV-102	DA	BOT HD MRD at 272°	MT, UT, RT	See Note 2
RPV-102	DB	BOT HD MRD at 332°	MT, UT, RT	See Note 2
RPV-102	DC	BOT HD MRD at 32°	MT, UT, RT	See Note 2
RPV-102	DD	BOT HD MRD at 92°	MT, UT, RT	See Note 2
RPV-102	DE	BOT HD MRD at 152°	MT, UT, RT	See Note 2
RPV-102	DF	BOT HD MRD at 212°		See Note 2

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

CATEGORY B-A

ISO. NO.	WELD NUMBER	DESCRIPTION	SECTION III EXAM	REMARKS
				Note 1: Only 12" to 23" on each end of the weld, starting from the intersection of weld AJ, can be examined due to CRD penetrations and housings.
				Note 2: Only 21" starting from the intersection of weld AA and 14" starting from the intersection of weld AJ can be examined due to vessel support skirt. (Approximately one foot is not being examined on each weld.)

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-002

Component or System

Reactor Recirculation 4-inch decontamination connections are schedule 80. A schedule 40 calibration block was used for the PSI baseline. Welds included:

ISI Drawing	Weld Number	
RRC-101-1	4 RRC(8) 2A-1	4 RRC(8) 2A-2
RRC-101-2	4 RRC(8) 1A-1	4 RRC(8) 1A-2
RRC-102-1	4 RRC(8) 2B-1	4 RRC(8) 2B-2
RRC-102-2	4 RRC(8) 1B-1	4 RRC(8) 1B-2

Code

All of the welds were designed and fabricated to ASME Section III Class 1. The Inservice Inspection is to be performed to ASME Section XI 1980 Edition, Winter 1980 Addenda.

Number of Welds

Category	Item No.	No. of Welds
B-J	B9.11	8

Section XI Requirements

Section XI requires volumetric examination of 100% of the welds in category B-J using a calibration standard of the same material specification, product form, and heat treatment as one of the materials being joined.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-002

Basis for Requesting Relief	A schedule 40 calibration block was used for the ultrasonic examination instead of a schedule 80 one. This will give a more sensitive examination than required by the code.
Alternate Examinations	No alternative examination will be done. The weld received a full ultrasonic examination that was more sensitive than required by the Code. The same calibration block that was used during the PSI will be used during the ISI.
Impact on Plant Quality and Safety	There will be no adverse impact on plant quality and safety. The welds received an ultrasonic examination that was more sensitive than required by Code.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-003

Component or System	Component supports
Code	All of the component supports were designed and fabricated to ASME Section III, NF. The Inservice Inspection is to be performed to ASME Section XI 1980 Edition, Winter 1980 Addenda.

Number of Component Supports

Category	Item No.	No. of Items
F-B	F-2	16

Supports are listed at the end of this request for relief.

Section XI Requirements	Section XI requires a visual examination (VT-3) of component supports.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-003

Basis for Requesting Relief	The component supports are inaccessible to examination. The component supports are in or close to wall penetrations which are foam-filled for fire protection. The support is covered by the foam. A loss of function of the support is expected to be identified at adjacent supports which are examined. It should also be noted that the pipe is completely surrounded by concrete with the metal support embedded in the concrete; the annulus between the pipe and concrete is foam filled. If any failure did occur, the concrete would perform a backup support function.
Alternate Examinations	The component supports are inaccessible to all examination techniques.
Impact on Plant Quality and Safety	There will be no adverse impact on plant quality and safety. Failure of these component supports will not prevent the reactor from being shut down.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-003

List of Inaccessible Component Supports

Identification Number	Drawing	Description
SW-69	SW-301	Rigid
SW-67	SW-301	Rigid
SW-72	SW-301	Rigid
SW-317	SW-301	Rigid
SW-152	SW-303	Rigid
SW-431	SW-303	Rigid
SW-137	SW-303	Rigid
SW-438	SW-303	Rigid
SW-203	SW-303	Rigid
SW-77	SW-301	Rigid
SW-34	SW-305	Rigid
SW-142	SW-303	Rigid
SW-60	SW-301	Rigid
SW-916N	SW-307	Rigid
SW-75	SW-301	Rigid
RCIC-18	RCIC-205	Rigid

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-004

Component or System	ASME Class 1, Section XI Catagory B-G-1, Reactor Pressure Vessel Nuts.
Code	All of the subject nuts were designed and fabricated to ASME Section III, Class 1 1968 Edition, Summer 1970 Addenda. The Inservice Inspection is to be performed to the 1980 Edition Winter 1980 Addenda of ASME Section XI.

Number of Nuts

Catagory	Number
B-G-1	76 (plus spares if used)

Section XI Requirements	Section XI requires a surface examination of 100% of each nut.
Basis for Requesting Relief	A meaningful surface exam of the thread area cannot be achieved with the protective phosphate coating. A volumetric (ultrasonic) examination of the nut will be performed to augment the surface exam. The ultrasonic examination will consist of a L-wave from the end and shear wave in four directions (two parallel to axis and two perpendicular to axis). A spare RPV nut will be used for the calibration standard.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-004

Alternative Examinations	RPV closure nuts will be examined using a surface method except for the thread area. The thread area will be examined by a volumetric method.
Impact on Plant Quality and Safety	None; a more thorough examination is being done.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-005

Component or System	Austenitic and dissimilar piping welds requiring volumetric examination.
Code	The subject welds are required to be examined to the 1980 Edition, through Winter 1980 Addenda of ASME Section XI.
Section XI Requirements	IWA-2232(c) requires the ultrasonic examination of austenitic and dissimilar piping welds performed to Article 5 of Section V.
Alternate Examinations	The ultrasonic examination of austenitic and dissimilar metal welds will be performed to Appendix III and Supplement 7 of the referenced code.
Basis for Requesting Relief	The WNP-2 PSI examination of these welds were performed to Appendix III with Supplement 7 of Section XI. The requirements of Appendix III with Supplement 7 and Article 5 are similar except that Appendix III is more stringent. Since the WNP-2 PSI was performed to Appendix III with Supplement 7, a better data comparison between ISI and PSI data will be obtained.
Impact on Plant Quality and Safety	The examination techniques in Appendix III with Supplement 7 will give a better examination since the requirements are more stringent.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-006

Component or System	Main Steam Relief Valve (MSRV) discharge piping.
Code	The discharge lines were designed and fabricated to ASME Section III Class 2 and Class 3. The Class 2 portion of the discharge piping was optionally upgraded by the Supply System from Class 3. The Inservice Inspection is to be performed to ASME Section XI 1980 Edition, Winter 1980 Addenda for Class 3 components. The Class 2 portion of the piping will be examined to Class 3 rules (IWA-1300 (d)).
Systems	The systems affected by this request for relief are:

10"MS(18)-2-1	10"MS(18)-2-2	10"MS(18)-2-3
10"MS(18)-2-4	10"MS(18)-2-5	10"MS(18)-2-6
10"MS(18)-2-7	10"MS(18)-2-8	10"MS(18)-2-9
10"MS(18)-2-10	10"MS(18)-2-11	10"MS(18)-2-12
10"MS(18)-2-13	10"MS(18)-2-14	10"MS(18)-2-15
10"MS(18)-2-16	10"MS(18)-2-17	10"MS(18)-2-18

Section XI Requirements	Section XI requires a pneumatic test at 90% of submerged head. (Approximately 6.6 psig.)
Basis for Requesting Relief	A fracture mechanics evaluation was performed on theMSRV discharge piping in the suppression pool to determine its ability to withstand the 40-year design cycles without fracture or leakage with a 1/10 wall thickness flaw. It was determined from this evaluation that the end of life flaw meets the acceptance criteria of ASME Section XI (1980W80). This demonstrated the ability of the MSRV piping in the suppression pool to withstand their design cycles with an existing flaw. Instead of the code required pneumatic test the Supply System will perform an alternate test.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-006

Alternate Examinations	The Supply System will perform alternate tests on the MSRV piping in the suppression pool. The Supply System will use the Drywell-Wetwell By-pass Leak Rate Test (BLRT) performed every 18 months instead of the code required test. The BLRT will pressurize the MSRV discharge piping to 1.5 psi every 18 months.
Impact on Plant Quality and Safety	There will be no adverse impact on plant quality and safety by performing the alternate examinations. A pneumatic test of the MSRV discharge piping will be performed at more frequent intervals (every 18 months instead of every 40 months). A fracture mechanics evaluation with a 1/10 wall thickness flaw determined that the discharge lines will meet ASME Section XI acceptance criteria during their design cycles.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-007

Component or System	All ASME Class 1, 2, and 3 snubbers.
Code	Section XI 1980 Edition with Addenda thru Winter 1980.
Number of Snubbers	These snubbers are identified on Table 6.2 by a "V" in the requirements column. Total number of snubbers is 535.
Section XI Requirements	The referenced Code requires all non-exempt snubbers to be visually examined and functionally tested in accordance with the requirements contained in Subsection IWF.
Basis for Requesting Relief	The WNP-2 Technical Specification 3/4.7.4 includes requirements for visual examination and testing of safety related snubbers. The examination and testing requirements are similar and more restrictive than the IWF requirements. A visual examination of all safety related snubbers is required every 18 months by Technical Specification 3/4.7.4 whereas Section XI requires most snubbers to be examined every 10 years. In multiple loops, Section XI requires only one loop to be examined. The testing requirements of Section XI are also less stringent in that Section XI requires 10% of the snubbers to be examined each 40 months whereas the Technical Specification requires 10% to be examined each 18 months for the 10% plan.

Date 04/16/85

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REQUEST FOR RELIEF NO. ISI-2-005

Alternate Examinations	Examination and Testing per WNP-2 Technical Specification 3/4.7.4 (attached).
Impact on Plant Quality and Safety	None. It is the Supply System's position that examination and testing of snubbers in accordance with the WNP-2 Technical Specifications provide a greater level of plant quality and safety.

PLANT SYSTEMS

3/4.7.4 SNUBBERS

LIMITING CONDITION FOR OPERATION

3.7.4 All hydraulic and mechanical snubbers shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. OPERATIONAL CONDITIONS 4 and 5 for snubbers located on systems required OPERABLE in those OPERATIONAL CONDITIONS.

ACTION:

With one or more snubbers inoperable on any system, within 72 hours replace or restore the inoperable snubber(s) to OPERABLE status and perform an engineering evaluation per Specification 4.7.4g on the attached component or declare the attached system inoperable and follow the appropriate ACTION statement for that system.

SURVEILLANCE REQUIREMENTS

4.7.4 Each snubber shall be demonstrated OPERABLE by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.5.

a. Inspection Types

As used in this specification, type of snubber shall mean snubbers of the same design and manufacturer, irrespective of capacity.

b. Visual Inspections

Snubbers are categorized as inaccessible or accessible during reactor operation. Each of these groups (inaccessible and accessible) may be inspected independently according to the schedule below. The first inservice visual inspection of each type of snubber shall be performed after 4 months but within 10 months of commencing POWER OPERATION and shall include all hydraulic and mechanical snubbers. If all snubbers of each type on any system are found OPERABLE during the first inservice visual inspection, the second inservice visual inspection of that system shall be performed at the first refueling outage. Otherwise, subsequent visual inspections of a given system shall be performed in accordance with the following schedule:

SURVEILLANCE REQUIREMENTS (Continued)

No. Inoperable Snubbers of Each Type on Any System per Inspection Period	Subsequent Visual Inspection Period* #
0	18 months ± 25%
1	12 months ± 25%
2	6 months ± 25%
3,4	124 days ± 25%
5,6,7	62 days ± 25%
8 or more	31 days ± 25%

c. Visual Inspection Acceptance Criteria

Visual inspections shall verify that: (1) there are no visible indications of damage or impaired OPERABILITY, (2) attachments to the foundation or supporting structure are secure, and (3) fasteners for attachment of the snubber to the component and to the snubber anchorage are secure. Snubbers which appear inoperable as a result of visual inspections may be determined OPERABLE for the purpose of establishing the next visual inspection interval, provided that: (1) the cause of the rejection is clearly established and remedied for that particular snubber and for other snubbers irrespective of type on that system that may be generically susceptible; and (2) the affected snubber is functionally tested in the as-found condition and determined OPERABLE per Specification 4.7.4f. All snubbers connected to an inoperable common hydraulic fluid reservoir shall be counted as inoperable snubbers. For those snubbers common to more than one system, the OPERABILITY of such snubbers shall be considered in assessing the surveillance schedule for each of the related systems.

d. Transient Event Inspection

An inspection shall be performed of all hydraulic and mechanical snubbers attached to sections of systems that have experienced unexpected, potentially damaging transients as determined from a review of operational data and a visual inspection of the systems within 6 months following such an event. In addition to satisfying the visual inspection acceptance criteria, freedom-of-motion of mechanical snubbers shall be verified using at least one of the following: (1) manually induced snubber movement; or (2) evaluation of in-place snubber piston setting; or (3) stroking the mechanical snubber through its full range of travel.

*The inspection interval for each type of snubber on a given system shall not be lengthened more than one step at a time unless a generic problem has been identified and corrected; in that event the inspection interval may be lengthened one step the first time and two steps thereafter if no inoperable snubbers of that type are found on that system.

#The provisions of Specification 4.0.2 are not applicable.

e. Functional Tests

During the first refueling shutdown and at least once per 18 months thereafter during shutdown, a representative sample of snubbers shall be tested using one of the following sample plans. The sample plan shall be selected prior to the test period and cannot be changed during the test period. The NRC Regional Administrator shall be notified in writing of the sample plan selected prior to the test period or the sample plan used in the prior test period shall be implemented:

1) At least 10% of the total of each type of snubber shall be functionally tested either in-place or in a bench test. For each snubber of a type that does not meet the functional test acceptance criteria of Specification 4.7.4f., an additional 10% of that type of snubber shall be functionally tested until no more failures are found or until all snubbers of that type have been functionally tested; or

2) A representative sample of each type of snubber shall be functionally tested in accordance with Figure 4.7-1. "C" is the total number of snubbers of a type found not meeting the acceptance requirements of Specification 4.7.4f. The cumulative number of snubbers of a type tested is denoted by "N". At the end of each day's testing, the new values of "N" and "C" (previous day's total plus current day's increments) shall be plotted on Figure 4.7-1. If at any time the point plotted falls in the "Reject" region, all snubbers of that type shall be functionally tested. If at any time the point plotted falls in the "Accept" region, testing of snubbers of that type may be terminated. When the point plotted lies in the "Continue Testing" region, additional snubbers of that type shall be tested until the point falls in the "Accept" region or the "Reject" region, or all the snubbers of that type have been tested. Testing equipment failure during functional testing may invalidate that day's testing and allow that day's testing to resume anew at a later time provided all snubbers tested with the failed equipment during the day of equipment failure are retested; or

3) An initial representative sample of 55 snubbers shall be functionally tested. For each snubber type which does not meet the functional test acceptance criteria, another sample of at least one-half the size of the initial sample shall be tested until the total number tested is equal to the initial sample size multiplied by the factor 1 + C/2, where "C" is the number of snubbers found which do not meet the functional test acceptance criteria. The results from this sample plan shall be plotted using an "Accept" line which follows the equation $N = 55(1 + C/2)$. Each snubber point should be plotted as soon

e. Functional Tests (Continued)

as the snubber is tested. If the point plotted falls on or below the "Accept" line, testing of that type of snubber may be terminated. If the point plotted falls above the "Accept" line, testing must continue until the point falls in the "Accept" region or all the snubbers of that type have been tested.

The representative sample selected for the functional test sample plans shall be randomly selected from the snubbers of each type and reviewed before beginning the testing. The review shall ensure, as far as practicable, that they are representative of the various configurations, operating environments, range of size, and capacity of snubbers of each type. Snubbers placed in the same location as snubbers which failed the previous functional test shall be retested at the time of the next functional test but shall not be included in the sample plan. If during the functional testing, additional sampling is required due to failure of only one type of snubber, the functional test results shall be reviewed at that time to determine if additional samples should be limited to the type of snubber which has failed the functional testing.

f. Functional Test Acceptance Criteria

The snubber functional test shall verify that:

1) Activation (restraining action) is achieved within the specified range in both tension and compression;

2) Snubber bleed, or release rate where required, is present in both tension and compression, within the specified range;

3) Where required, the force required to initiate or maintain motion of the snubber is within the specified range in both directions of travel; and

4) For snubbers specifically required not to displace under continuous load, the ability of the snubber to withstand load without displacement.

Testing methods may be used to measure parameters indirectly or parameters other than those specified if those results can be correlated to the specified parameters through established methods.

g. Functional Test Failure Analysis

An engineering evaluation shall be made of each failure to meet the functional test acceptance criteria to determine the cause of the failure. The results of this evaluation shall be used, if

g. Functional Test Failure Analysis (Continued)

applicable, in selecting snubbers to be tested in an effort to determine the OPERABILITY of other snubbers irrespective of type which may be subject to the same failure mode.

For the snubbers found inoperable, an engineering evaluation shall be performed on the components to which the inoperable snubbers are attached. The purpose of this engineering evaluation shall be to determine if the components to which the inoperable snubbers are attached were adversely affected by the inoperability of the snubbers in order to ensure that the component remains capable of meeting the designed service.

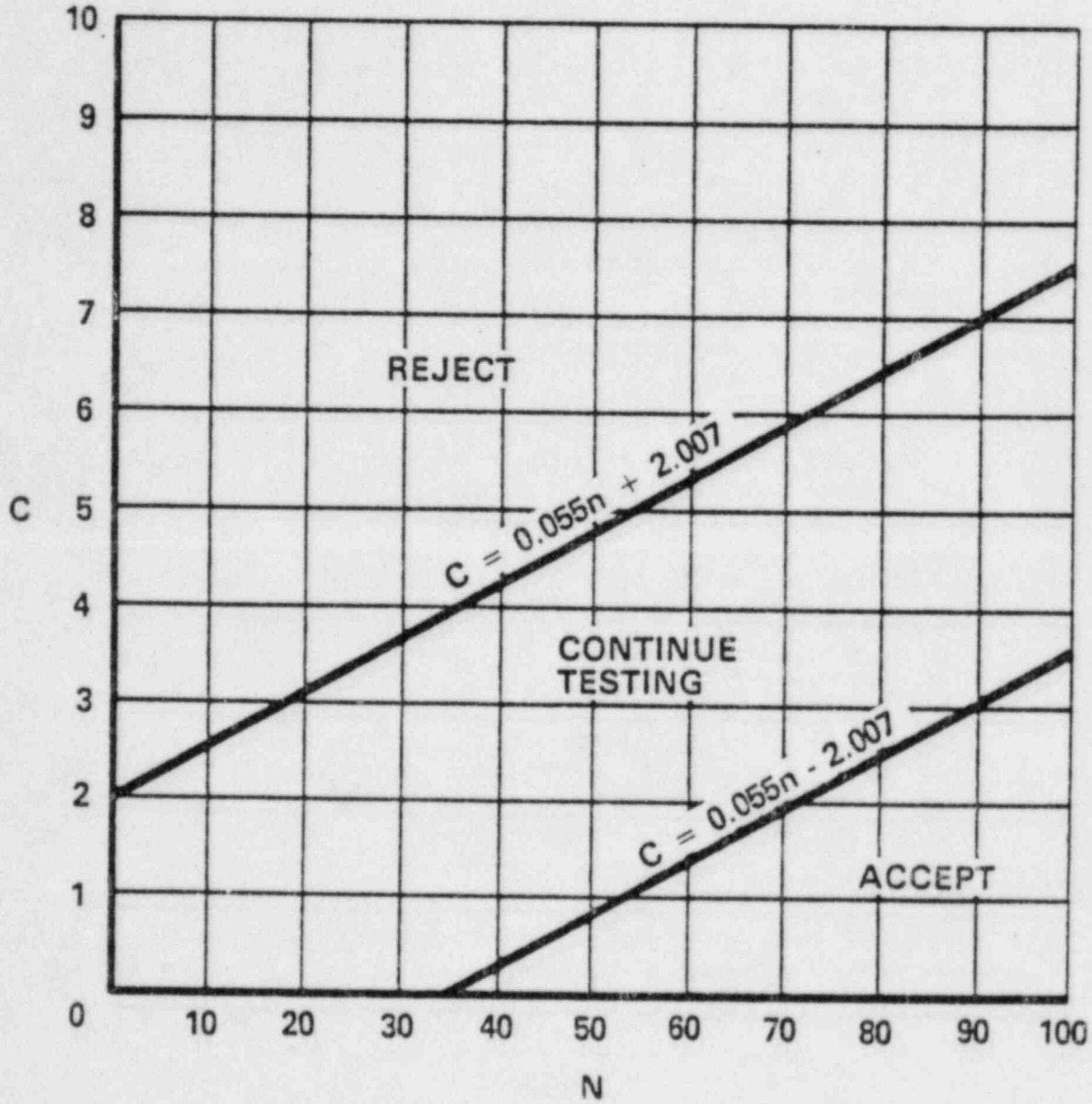
If any snubber selected for functional testing either fails to lock up or fails to move, i.e., frozen-in-place, the cause will be evaluated and, if caused by manufacturer or design deficiency, all snubbers of the same type subject to the same defect shall be functionally tested. This testing requirement shall be independent of the requirements stated in Specification 4.7.4e. for snubbers not meeting the functional test acceptance criteria.

h. Functional Testing of Repaired and Replaced Snubbers

Snubbers which fail the visual inspection or the functional test acceptance criteria shall be repaired or replaced. Replacement snubbers and snubbers which have repairs which might affect the functional test results shall be tested to meet the functional test criteria before installation in the unit. Mechanical snubbers shall have met the acceptance criteria subsequent to their most recent service, and the freedom-of-motion test must have been performed within 12 months before being installed in the unit.

i. Snubber Service Life Program

The service life of hydraulic and mechanical snubbers shall be monitored to ensure that the service life is not exceeded between surveillance inspections. The maximum expected service life for various seals, springs, and other critical parts shall be determined and established based on engineering information and shall be extended or shortened based on monitored test results and failure history. Critical parts shall be replaced so that the maximum service life will not be exceeded during a period when the snubber is required to be OPERABLE. The parts replacements shall be documented and the documentation shall be retained in accordance with Specification 6.10.2.



INFORMATION ONLY

FIGURE 4.7-1
SAMPLE PLAN 2) FOR SNUBBER FUNCTIONAL TEST

5.0 FSAR/NRC COMMITMENTS

5.1 FSAR COMMITMENTS

The Supply System committed in the WNP-2 FSAR to perform inservice inspections pursuant to the requirements of 10CFR50.55a(g). Based on this commitment the mandatory inservice inspection Code is ASME Section XI 1980 Edition, Winter 1980 Addenda. The Supply System will comply with the 1980 Edition, Winter 1980 Addenda of ASME Section XI upgraded per Section 4.1 page 4-1.

The FSAR Sections applicable to this Program Plan are as follows:

o FSAR Section 5.2.4:	Inservice Inspection and Testing of the Reactor Coolant Pressure Boundary
o FSAR Section 6.6:	Inservice Inspection of ASME III Class 2 and 3 components
o FSAR Question 121.8:	Augmented Reactor Feedwater Examination
o FSAR Question 121.10:	PSI/ISI Program
o FSAR Question 110.030:	Snubber Operability
o FSAR Section 3.9.3.4:	Component Supports
o FSAR Section 3.6.2.1.2.1:	Augmented High Energy Piping Examination

5.2 NRC REGULATORY GUIDES

The Supply System has reviewed the augmented inservice inspection requirements found in the NRC Regulatory Guides listed in Table 5.1. Following careful review and consideration of those augmented requirements, the WNP-2 Inservice Inspection Program Plan has been written to comply with the Regulatory Guides which are applicable to WNP-2. A brief statement of applicability is given for each Guide in Table 5.1.

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TABLE 5.1

NRC REGULATORY GUIDE REVIEW
FOR
APPLICABILITY TO WNP-2 ISI PROGRAM PLAN

Reg. Guide No.	Title	Applicability to WNP-2 ISI Program Plan
1.14, Rev. 1	Reactor Coolant Pump Flywheel Integrity.	Not applicable; WNP-2 Reactor Coolant Pumps, do not have flywheels.
1.26, Rev. 3	Quality Group Classifications and Standard for Water, Steam, and Radioactive Waste Containing Components in Nuclear Power Plants.	Applicable; WNP-2 ISI Program Plan is written to comply.
1.33, Rev. 2	Quality Assurance Program Requirements (Operation).	Applicable; Supply System Operational QA Program addresses compliance and exceptions.
1.35, Rev. 2	Inservice Inspection of Ungrouted Tendons in Prestressed Concrete Containment Structures.	Not applicable; WNP-2 does not have a pre-stressed concrete containment.
1.58, Rev. 1	Qualification of Nuclear Power Plant Inspection, Examination and Testing Personnel.	Applicable; Supply System Operational QA Program addresses compliance and exceptions.
1.65	Materials and Inspections for Reactor Pressure Vessel Closure Studs.	Applicable; WNP-2 ISI Program Plan complies through incorporation of ASME Section XI examination requirements.
1.66	NDE of Tubular Products.	Withdrawn.
1.70, Rev.2	Standard Format and Content for FSAR's.	Applicable; The FSAR Section in the WNP-2 ISI Program Plan is written using the formats in the Regulatory Guide.
1.83, Rev. 1	ISI of PWR Steam Generator Tubes.	Not applicable; WNP-2 is a BWR.
1.88, Rev. 2	Collection, Storage, and Maintenance of Nuclear Power Plant Quality Assurance Records.	Applicable; Supply System Operational QA Program addresses compliance and exceptions.

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TABLE 5.1

NRC REGULATORY GUIDE REVIEW
FOR
APPLICABILITY TO WNP-2 ISI PROGRAM PLAN
(contd.)

Reg. Guide No.	Title	Applicability to WNP-2 ISI Program Plan
1.90, Rev. 1	ISI of Pre-stressed Concrete Containment Vessels with Ungrouted Tendons.	Not applicable; WNP-2 does not have a Pre-stressed Concrete Containment.
1.96	Design of Main Steam Isolation Valve Leakage Control Systems.	Applicable; WNP-2 ISI Program Plan is written to comply. (There are no examinations beyond that required by ASME Section XI.)
1.116, Rev. 0-R	Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems.	Applicable, Supply System Operational QA Program addresses compliance and exceptions.
1.123, Rev. 1	Quality Assurance Requirements for control of Procurement of Items and Services for Nuclear Power Plants.	Applicable; Supply System Operational QA Program addresses compliance and exceptions.
1.137, Rev. 1*	Fuel-oil Systems for Standby Diesel Generators.	Not applicable; The construction permit preceeds the 11/1/79 cut-off date.
1.147, Rev. 1	Inservice Inspection Code Case Acceptability ASME Section XI Division I.	Applicable; The following code cases are being used: a) N-236 b) N-308 c) N-343
1.150 Rev. 1	UT of Reactor Vessel Welds during Preservice and Inservice Inspection.	Applicable; WNP-2 will comply with Appendix A of this Reg. Guide.

*Pressure testing requirements for the fuel-oil system are addressed in Technical Specification.

5.3 MANDATORY AUGMENTED INSERVICE INSPECTION

The Supply System will implement mandatory augmented examinations during the inspection interval. The mandatory augmented examinations are examinations committed to by the Supply System in the FSAR or in response to NRC questions.

5.3.1 HIGH ENERGY LINES PENETRATING CONTAINMENT

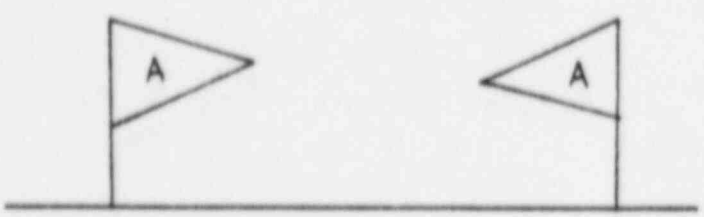
An augmented Inservice Inspection Program will be implemented on high energy piping systems which penetrate containment for which the effects of postulated pipe breaks would be unacceptable. This program will entail a volumetric examination of all circumferential butt welds (surface examination for socket welds) between the first pipe whip restraint beyond the inside containment isolation valve, and the first pipe whip restraint beyond the outside containment isolation valve on high energy lines greater than one inch which penetrate the containment. (see Fig. 5.1.A) Where the inside/outside containment isolation valve does not exist, the augmented inservice inspection will extend to the first pipe whip restraint beyond the containment penetration or up to the Class 2 boundary, whichever comes first. (see Fig. 5.1.B and Fig. 5.1.C) If there is no pipe whip restraint located beyond the inside/outside containment isolation valve, the augmented inservice inspection boundary will extend to the isolation valve. (see Fig. 5.1.D) Where two containment isolation valves in series are located outside containment, the above criteria will be applied to the outermost valve. (see Fig. 5.1.E)

This program will include branch lines which fall within the augmented inservice inspection boundary to the first pipe whip restraint beyond the branch line isolation valve or the first normally closed valve, whichever comes first. (see Fig. 5.1.A)

If no pipe whip restraint and/or isolation (normally closed) valve is located on the branch line, the same criteria stated above for main run line will be applied.

The augmented inservice inspection boundary is shown on ISI Boundary Diagrams in Section 7.0 and on Weld and Component Identification Diagrams in Section 14.0 as follows:

AUGMENTED ISI BOUNDARY



Augmented inservice inspection will be implemented on high-energy piping systems associated with the following penetrations:

Penetration No.	System
X-18A	Main Steam
X-18B	Main Steam
X-18C	Main Steam
X-18D	Main Steam
X-21	RCIC
X-45	RCIC
X-17A	RFW
X-17B	RFW
X-14	RWCU

The volumetric examination will be done once each inspection interval.

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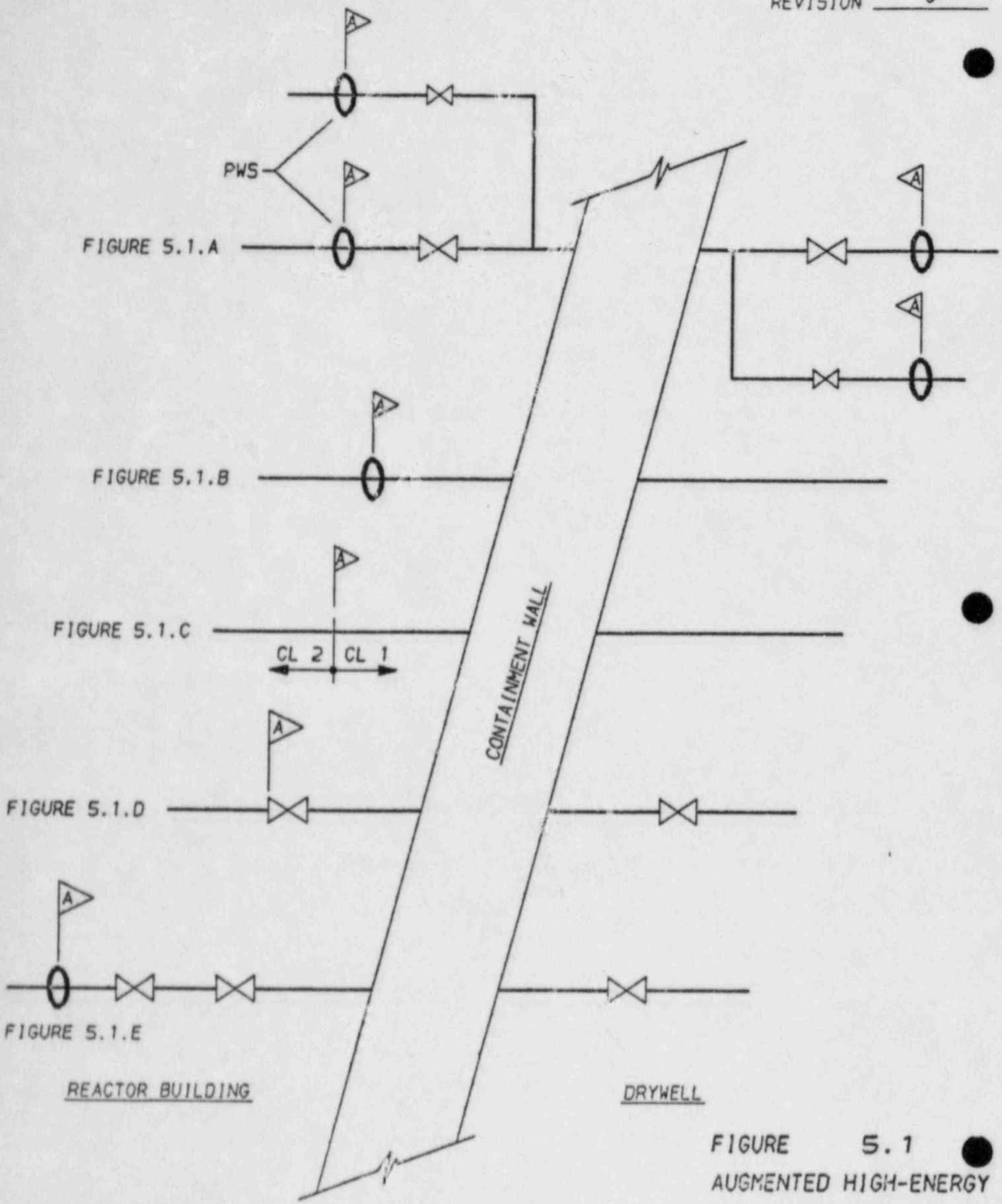

FIGURE 5.1
AUGMENTED HIGH-ENERGY LINE BOUNDARY

5.3.2 Reactor Feedwater Nozzle

An augmented inservice inspection program will be implemented to examine the reactor feedwater nozzle inner radii for cracks. Per Supply System's response to FSAR question 121.8 and NUREG 0619 (letter GO2-82-36, dated January 13, 1982) the augmented program will consist of the following:

- Ultrasonic examination of one feedwater nozzle each refueling outage.
- A surface examination will be used only to verify the nature of an indication discovered by ultrasonics.
- If an indication is found to result from service induced cracks propagating from the nozzle inner surfaces the following actions will be taken.
  - a. All remaining feedwater nozzles will be examined using UT (from the OD) and penetrant techniques during the refueling outage in which the cracking is verified.
  - b. Remove by local grinding all surface indications determined to be service induced cracks.
  - c. The integrity of the RFW thermal sleeve to safe end joints will be determined by an inspection method such as a leak test.
  - d. Appropriate corrective action will be taken as required and as practical to prevent recurrance of crack initiation.
  - e. A RFW nozzle examination program for subsequent refueling outages will be modified to include an external ultrasonic examination of all feedwater nozzle radii, bore and safe end regions for each scheduled refueling outage for 3 consecutive outages. If no new indications are discovered or if new indications are determined to not result from service induced cracks at the nozzle inner surfaces, the original Supply System program will be resumed.
  - f. Surface examination of accessible nozzle inner radius surfaces will continue to be used throughout plant life only to confirm or characterize new UT indications.
- If no indications resulting from service induced cracks are found after six refueling outages, subsequent inservice examinations will be performed in accordance with normal ASME Section XI requirements.

The UT examinations will be done by personnel qualified on the WNP-2 Feedwater Nozzle Mockup. The technique will be similar to the technique used in the preservice examinations and will be qualified on the WNP-2 Feedwater Nozzle Mockup.

5.3.3 Jet Pump Holddown Beams

An augmented inservice inspection of the Jet Pump Holddown Beams will be implemented in accordance with the recommendations of GE document NEDE-24362-1 issued December, 1981. The first examination will be 5 calendar years after commercial operation and at 2 year intervals thereafter. The examinations will consist of a visual examination and a special UT examination of the holddown beams.

5.3.4 Intergranular Stress Corrosion Cracking (IGSCC)

An augmented inservice inspection of all Code Class 1 piping and components which are considered susceptable to IGSCC will be performed. The examinations will be performed on piping and components which:

(1) are subject to examination requirements specified in ASME Section XI and,

(2) contain reactor coolant and,

(3) are fabricated from austenitic stainless steel which does not meet the requirements specified in Part III of NUREG-0313, Rev. 1.

Welds that received induction heating stress improvement (IHSI) will be classified as "conforming" (ref. NUREG 0313 Rev. 1) and will not receive an augmented examination.

Per Supply System's response to NUREG 0313 Rev. 1, (letters GO2-81-268 dated September 2, 1981 and GO2-83-833 dated September 14, 1983) and Generic Letter 84-11 (letter GO2-84-364 dated May 30, 1984) the augmented program will consist of the following:

- First refueling outage examine 20% of the 39 welds listed in Table 5-2.
- Examine all 39 welds within first 80 months of commercial operation.
- Procedure used will be demonstrated to confirm the technique can detect service induced cracks.
- Examiners will demonstrate their ability to detect and evaluate service induced cracks.

Table 5-2 lists the 39 welds that are part of this augmented program.

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TABLE 5-2

WELDS SUBJECT TO AUGMENTED IGSCC REQUIREMENTS

Identification No.	Drawing No.
4JP(NZ)A-1	RPV-115
4JP(NZ)A-2	RPV-115
4JP(NZ)B-1	RPV-115
4JP(NZ)B-2	RPV-115
24RRC(2)A-10/4RRC(8)-4S	RRC-101-1
24RRC(2)A-10/4RRC(4)-4S	RRC-101-1
24RRC(1)A-20/12RRC(7)-4S	RRC-101-2
24RRC(1)A-13/4RRC(8)-4S	RRC-101-2
24RRC(1)A-13/8CAP	RRC-101-2
24RRC(1)A-20/12CAP	RRC-101-2
24RRC(1)B-8/4RRC(8)-4S	RRC-102-1
24RRC(1)B-8/4RRC(4)-4S	RRC-102-1
24RRC(1)B-11/8CAP	RRC-102-2
24RRC(1)B-11/4RRC(8)-4S	RRC-102-2
24RRC(1)B-18/12CAP	RRC-102-2
24RRC(1)B-18/12RRC(7)-4S	RRC-102-2
4RRC(4)A-1	RRC-108
4RRC(4)A-2	RRC-108
4RRC(4)A-3	RRC-108
4RRC(4)A-4	RRC-108
4RRC(4)A-5	RRC-108
4RRC(4)A-6	RRC-108
4RRC(4)A-7	RRC-108
4RRC(4)A-8	RRC-108
4RRC(4)A-9	RRC-108
4RRC(4)A-10	RRC-108
4RRC(4)A-11	RRC-108
4RRC(4)B-1	RRC-109
4RRC(4)B-2	RRC-109
4RRC(4)B-3	RRC-109
4RRC(4)B-4	RRC-109
4RRC(4)B-5	RRC-109
4RRC(4)B-6	RRC-109
4RRC(4)B-7	RRC-109
4RRC(4)B-8	RRC-109
4RRC(4)B-9	RRC-109
4RRC(4)B-10	RRC-109
4RRC(4)B-11	RRC-109
4RRC(4)B-12	RRC-109

5.3.5 Core Spray Spargers

An augmented inservice inspection program will be implemented to examine the reactor core spray spargers that complies with IE Bulletin 80-13. This program will entail remote underwater TV examinations of the Core Spray Spargers and the segment of piping between the inlet nozzle and the vessel shroud. The examination will be performed every refueling outage.

5.3.6 CRD Scram Discharge Headers

The inservice inspection for the CRD Scram Discharge Headers (SDH) will consist of a visual examination of all welds for evidence of leakage once an inspection period and a volumetric examination of 10% of the circumferential welds greater than 4 NPS once each inspection interval. The welds subject to volumetric examination will be the same ones which received a preservice examination. (Reference letter number G02-83-523, G.D. Bouchey to Mr. A. Schwencer, "PSI Summary Report Clarification" dated June 15, 1983.)

5.3.7 Piping Minimum Wall Thickness

The following ISI welds had their corrosion allowance reduced below the minimum specified during blending for ISI NDE examination:

16 LPCS(1)-5
26 MS(1)C-15

The Supply System will determine the actual corrosion of these areas by measuring the thickness of the pipe towards the end of the first 10-year inspection interval. Results of these thickness measurements will determine the action to be taken during subsequent intervals.

5.4 NONMANDATORY AUGMENTED EXAMINATIONS

The following examinations are not required by the reference code, the FSAR nor the NRC. They are being performed by the Supply System to aid in maintenance activities.

5.4.1

Thickness measurements of small bore valves whose corrosion allowance is less than minimum specified.

The following valves are in this program:

MS-V-161B
RWCU-V-450
RWCU-V-451

The Supply System will determine the actual corrosion rate of these valves by measuring the wall thickness towards the end of the first inspection interval.

5.4.2 Reactor Feedwater Pump Discharge Erosion

A program to monitor the reactor feedwater pump discharge piping will be implemented. Thickness measurements of the discharge reducer will be taken to determine the corrosion/erosion rate. This information will support the scheduling of a replacement reducer. Thickness measurements were taken prior to service to establish a baseline. The thickness measurements will be taken 5, 8 and 10 years from commercial operation.

6.0 COMPONENT SUPPORT ISI PROGRAM

6.1 DESCRIPTION

The Component Support ISI Program governs the inservice inspection of component supports as required by ASME Section XI, 1980 Edition with addenda through Winter 1980 and WNP-2 Technical Specification 3/4.7.4. The program consists of a Visual Examination Program and a Snubber Visual Examination and Testing Program. Due to the rapidly evolving requirements and regulations pertaining to component supports in the industry, guidance from ASME Section XI 1980 Edition with addenda through Winter 1981, and ANSI/ASME OM-4 including the latest proposed drafts have been utilized during the development of this program. The location of most component supports is shown on the inservice inspection weld and component identification diagrams which are found in Section 14.0. The following tables are included at the end of this section which identify the component supports subject to inspection.

Table 6.1, "Component Supports", all component supports subject to examination except Safety-Related snubbers of Table 6.2.

Table 6.2, "Snubbers", all Safety-Related snubbers required to be visually examined and tested by Technical Specification 3/4.7.4. This table also includes all ASME snubbers which are required to be examined and tested by ASME Section XI.

6.2 RELIEF REQUESTS

This program satisfies ASME Section XI and augmented NRC requirements to the maximum extent practical. However some installations cannot be examined due to limited access. In such cases, a relief request is included which identifies the unexaminable area and identifies alternative examinations, if any. Additionally a request for relief from the snubber examination and testing requirements contained in ASME Section XI, Subsection IWF has been included in Section 4.6. The WNP-2 Plant Technical Specifications contains similar and generally more restrictive requirements for visual examination and testing than does IWF. The Technical Specifications requirements will be implemented at WNP-2. Relief requests are included in Section 4.6.

6.3 EXEMPTIONS

Section IWF-1230 of Section XI (W-80), which covers exemptions, is in the course of preparation. Therefore, the Supply System will use the following as exemption criteria for component supports:

Class 1

Component supports shall be exempt from examination and test requirements of this program if the component connection, piping, pump or valve is 1 inch nominal pipe size or smaller.

Class 2

Component supports shall be exempt from examination and test requirements of this program if the component connection, piping, pump or valve is 4 inches nominal pipe size or smaller.

Spray ring header supports on open ended piping past the last shutoff valve will not be examined. These lines are not pressurized during normal modes of operation and are not subject to hydraulic stresses, thermal movement, etc. This exemption applies to RHR spray headers in the drywell and the wetwell.

Supports on open ended piping in the wetwell will not be examined. Note these supports are structural and are considered building structures and not piping supports. This exemption applies to ECCS suction and discharge lines in the wetwell and to MS relief valve discharge lines in the wetwell.

Class 3

Component supports shall be exempt from examination and test requirements of this program if the system in which they are part of does not require examination by Table IWD-2500-1.

Component supports shall be exempt from examination and test requirements of this program if the component connection, piping, pump or valve is 4 inches nominal pipe size or smaller.

The above exemptions are consistent with the earlier versions of ASME Section XI to which the preservice inspection was performed to.

The above exemptions will not be applied to safety-related snubbers required to be examined and tested by WNP-2 Technical Specification 3/4.7.4.

6.4 VISUAL EXAMINATION PROGRAM

The visual examination program establishes requirements for visual examination of component supports to determine the general mechanical and structural conditions and, where applicable, functional capability of the component support. This program is written to comply with the requirements of the reference code.

Table 6.1 lists all ASME component supports subject to visual examination except safety-related snubbers.

6.4.1 REQUIREMENTS

(a) Component supports shall not be subjected to prior maintenance specifically for the purpose of meeting examination requirements.

(b) The visual examination procedure shall include a checklist which will include inspection items required by the Code.

(c) When a component support requires corrective action to meet the acceptance criteria of 6.4.2, that support shall be reexamined during the next inspection period.

6.4.2 ACCEPTANCE CRITERIA

The acceptance criteria (IWF-3400) from the Winter 1981 addendum shall be used in this program. The Winter 1980 addendum does not contain acceptance criteria.

6.4.3 EXAMINATION FREQUENCY

ASME Component Supports (Table 6.1)

ASME component supports are examined in accordance with Inspection Program B of Table IWB/IWC-2412-1, which requires 100% of all non-exempt component supports to be examined during each inspection interval (10 years), with approximately 33% of the examinations performed each inspection period (40 months). The actual component supports selected for examination during a particular period will be determined by selecting various component supports based on system and size. The sequence of component support examinations established during the first inspection interval shall be repeated during each successive inspection interval to the extent practical.

6.4.4 MULTIPLE COMPONENTS

For multiple components within a system of similar design and service, the supports of only one of the multiple components are required to be examined. The above does not apply to those snubbers requiring examination per the plant technical specification.

APPLICATION

RRC Pump 1A/1B
RHR Pump 1A/1B
RHR Hx 1A/1B
FPC Pump 1A/1B
FPC Hx 1A/1B
SW Pump 1A/1B
RCC Hx 1A/1B/1C
RCC Pump 1A/1B/1C

6.4.5 ADDITIONAL EXAMINATIONS

ASME Component Supports

When Component Supports require rework or the results of examinations require corrective measures, additional examinations shall be performed as required by IWF-2420 and IWF-2430.

6.5 SNUBBER VISUAL EXAMINATION AND TESTING PROGRAM

The Snubber Visual Examination and Testing Program establishes requirements for the examination and testing of snubbers in ASME Class 1, 2 and 3 systems and safety-related snubbers in non-ASME systems. This program is written to comply with the requirements of the the WNP-2 plant technical specification for snubbers (Tech. Spec. 3/4.7.4).

The augmented requirements included in the plant technical specification differ and are generally more restrictive than the corresponding code requirements. Therefore, by meeting these augmented requirements, it is the Supply System's position that the ASME Code requirements are met. All snubbers (Table 6.2) will be treated the same as far as visual examination and testing is concerned, irrespective of whether they fall under ASME or Technical Specification 3/4.7.4 requirements.

6.5.1 REQUIREMENTS

6.5.1.1 VISUAL EXAMINATION

(a) The augmented visual examination (Tech Spec) program requires a visual examination of all snubbers in a system within six months following a potentially damaging transient of the system.

(b) The visual examination procedure shall include a checklist which will include inspection items required by the WNP-2 Plant Technical Specifications.

6.5.1.2 TESTING

(a) Operability testing of snubbers shall be performed to verify the following: (See Section 3.6 for definitions.)

- Drag force
- Activation/Release rate

(b) Snubbers may be tested at less than rated load as recommended by the manufacturer to verify the operating parameters specified above. Testing at less than rated has been correlated to operability parameters at rated load by the manufacturer.

(c) Snubbers shall not receive prior maintenance specifically for the purpose of meeting an operability test requirement.

(d) Replacement snubbers and snubbers which have had repairs which might affect the functional test results shall be tested to meet the functional test criteria before installation. Mechanical snubbers shall have met the acceptance criteria subsequent to their most recent service, and the freedom-of-motion test must have been performed within 12 months before being installed.

6.5.2 ACCEPTANCE CRITERIA

Visual Examination

The acceptance criteria (IWF-3400) from the Winter 1981 Addendum of Section XI shall be used in this program. This acceptance criteria covers everything the Technical Specification does, but is more specific.

Testing

The acceptance criteria will be contained in the testing procedures and will be consistent with piping design and with manufacturer's recommendations.

6.5.3 SAMPLE SIZE

All snubbers in Table 6.2 are classified and grouped by design and manufacturer, but not by size per Technical Specification requirements. Currently, all snubbers at WNP-2 are Pacific Scientific mechanical snubbers. All snubbers shall be tested in accordance with one of the three sample plans contained in the Technical Specification. The NRC Regional Administrator shall be notified in writing of the sample plan selected prior to the test period or the sample plan used in the prior test period shall be used.

6.5.4 SAMPLE FREQUENCY

Visual Examinations (Table 6.2)

Safety-related snubbers are subject to augmented visual examination requirements and are examined at least every 18 months. The augmented examination inspection period is determined by the table in plant technical specifications, and varies from 31 days to 18 months.

The snubbers are divided into two groups; accessible during reactor operation and inaccessible during reactor operation. The augmented visual exam is conducted on each group independently.

Testing

Testing of snubbers shall take place during the first refueling outage and at least once every 18 months thereafter, using a representative sample of snubbers in each of the above snubber groups. As far as practical, the representative sample selected for testing shall include the various snubber configurations, operating environments and capacity of snubbers.

6.5.5 ADDITIONAL EXAMINATIONS

Visual Examination

The number of snubbers found inoperable on a particular system as a result of the augmented visual exam determines the next inspection interval for that system (31 days to 18 months). For a snubber to be declared inoperable for purposes of determining subsequent visual examination intervals, the snubber itself (which includes the pin fasteners) must be inoperable. Deficiencies in the remainder of the support installation must be corrected, but if the snubber is functional and the snubber is tested satisfactorily, the component support is not counted as an inoperable snubber.

Testing

Snubbers which do not meet the operability testing acceptance criteria shall be evaluated to determine the cause of the failure. Unacceptable snubbers shall be categorized according to type of failure. Snubbers which may be subject to the same failure mode shall be considered when determining subsequent testing requirements. For the purposes of failure determination, snubbers are categorized by design. For the PSA snubbers used at WNP-2, there are three different designs. They are:

Type 1 - PSA 1/4 and 1/2
Type 2 - PSA 1, 3 and 10
Type 3 - PSA 35 and 100

Subsequent testing for snubbers (Table 6.2) shall be done in accordance with the requirements selected for a group of snubbers as contained in the Technical Specification.

Repaired snubbers and snubbers placed in the same location as snubbers which failed the previous functional test shall be retested at the time of the next functional test in addition to the snubbers tested in the sample plan.

6.6 SNUBBER ACCESSIBILITY

Access to safety-related snubbers was determined from the PSI examination and system expansion test results. If the snubber was accessible for these examinations, then the snubber is considered accessible for maintenance and repair/replacement.

In addition to the above, each snubber in Table 6.2 has been evaluated to determine if it is accessible or inaccessible for visual examination during operation. This list has been reviewed by the Plant Operations Committee. Any changes to the accessibility classification shall also be approved by POC.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
EXAMINATION REQUIREMENTS

DATE: April 16, 1985
REVISION: 0

REC. CODE	DESCRIPTION
A	Examine each refueling outage.
B	Examine each inspection period.
C	Can be deferred to end of inspection interval.
D	Examine during first 80 months (IGSCC).
E	Examine 25% - 50% first inspection period, 100% third inspection
F	Examine 16% first inspection period, 50% second inspection period 100% third inspection period.
G	Examine first refueling outage and every three years thereafter.
H	Examine when disassembled.
I	Augmented Feedwater exam - one RFW nozzle each refueling outage.
J	Examine next ISI outage (indication).
K	Augmented high energy line penetrating containment.
L	
"	Partial deferral - if examination done from flange face, rest of
-	examination can be deferred to end of inspection interval.
N	Not ISI examination.
O	Does not require examination.
P	Perform toward or at the end of inspection interval.
Q	Additional examinations due to indication.
R	Examination only when removed.
S	Stainless Steel - identifies all SS welds in program.
T	Steam condensing mode de-energized.
U	Technical specification 3/4.7.4 snubber.

EXC. CODE	DESCRIPTION
V	ASME Section XI Component Support.
V	Type 1 - PSA 1/4 and PSA 1/2.
V	Type 2 - PSA 1, 3 and 10.
V	Type 3 - PSA 35 and 100.
7	Multicomponent component support.
1	Inaccessible component support.
2	Inaccessible during reactor operation.
3	Accessible during reactor operation.
4	Special exam - not Section XI.
5	20% of these welds will be examined at first refueling outage for IGSCC.
6	Weld stress exceeds limits in table 2500-1 Category B-J note (1)(b)
7	Weld stress below limits in table 2500-1 Category B-J note (1)(b)
8	Examine 7.5% of these welds each interval
9	Examine with intersecting circumferential weld

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
DCW-HX-1A1(CS)	HX BASE	SW-302	23054	D-11	441
DCW-HX-1A2(CS)	HX BASE	SW-302	22029	D-11	441
DCW-HX-1B1(CS)	HX BASE	SW-306	23054	D-11	441
DCW-HX-1B2(CS)	HX BASE	SW-306	22029	D-11	441
DCW-HX-1C(CS)	HX BASE	SW-310		D-11	441
FPC-10	BOX	FPC-308	FPC-778-4.6	W-14	455
FPC-100	BOX	FPC-307	FPC-638-4.7	R-21	464
FPC-101	RIGID	FPC-301	FPC-604-7.9	R-63	555
FPC-102	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-103	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-104	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-105	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-106	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-107	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-108	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-109	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-11	BOX	FPC-308	FPC-778-4.6	W-14	455
FPC-110	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-111	BOX	FPC-304	FPC-636-22.24	W-24	479
FPC-112	STRUT	FPC-304	FPC-636-22.24	W-24	479
FPC-113	BOX	FPC-304	FPC-636-25.26	W-24	479
FPC-114	RIGID	FPC-304	FPC-636-25.26	W-34	488
FPC-116	RIGID	FPC-304	FPC-636-27.28	W-34	487
FPC-118	RIGID	FPC-306	FPC-639-3.5	R-11	427
FPC-119	SPRING	FPC-306	FPC-639-3.5	R-11	433
FPC-12	STRUT	FPC-308	FPC-778-4.6	W-14	455
FPC-120	BOX	FPC-306	FPC-639-3.5	R-11	433
FPC-122	ANCHOR	FPC-306	FPC-639-1.2	R-11	443
FPC-123	BOX	FPC-306	FPC-639-1.2	R-21	448
FPC-126	STRUT	FPC-306	FPC-639-1.2	R-21	451
FPC-127	BOX	FPC-301	FPC-608-1.4	R-63	558
FPC-128	BOX	FPC-301	FPC-608-1.4	R-63	558

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
FPC-129	BOX	FPC-301	FPC-608-1.4	R-63	560
FPC-13	BOX	FPC-308	FPC-778-4.6	W-14	455
FPC-130	BOX	FPC-301	FPC-608-1.4	R-63	560
FPC-14	STRUT	FPC-308	FPC-778-4.6	W-14	455
FPC-15	RIGID	FPC-308	FPC-778-10.13	W-14	460
FPC-158	BOX	FPC-305	FPC-669-1.7	R-61	558
FPC-159	BOX	FPC-305	FPC-669-1.7	R-61	558
FPC-16	RIGID	FPC-308	FPC-778-10.13	W-24	467
FPC-160	RIGID	FPC-305	FPC-640-1.6	R-61	550
FPC-161	BOX	FPC-305	FPC-640-1.6	R-61	553
FPC-162	BOX	FPC-305	FPC-640-1.6	R-51	547
FPC-163	BOX	FPC-305	FPC-640-1.6	R-51	526
FPC-164	BOX	FPC-305	FPC-640-1.6	R-41	506
FPC-165	BOX	FPC-305	FPC-640-7.9	R-31	480
FPC-166	BOX	FPC-305	FPC-640-7.9	R-33	480
FPC-167	BOX	FPC-305	FPC-640-7.9	R-33	480
FPC-168	BOX	FPC-305	FPC-640-7.9	R-33	480
FPC-17	STRUT	FPC-308	FPC-778-10.13	W-24	476
FPC-170	BOX	FPC-201	FPC-640-10.12	R-32	468
FPC-172	BOX	FPC-201	FPC-640-10.12	R-32	468
FPC-177	SPRING	FPC-302	FPC-636-8.9	R-61	559
FPC-178	BOX	FPC-302	FPC-636-8.9	R-61	560
FPC-179	BOX	FPC-302	FPC-636-4.5	R-61	559
FPC-18	SPRING	FPC-308	FPC-778-10.13	W-24	483
FPC-180	BOX	FPC-302	FPC-636-4.5	R-61	557
FPC-181	BOX	FPC-302	FPC-636-4.5	R-61	553
FPC-182	BOX	FPC-302	FPC-636-1.3	R-63	560
FPC-184	SPRING	FPC-302	FPC-636-1.3	R-63	555
FPC-185	BOX	FPC-302	FPC-636-6.7	R-63	560
FPC-186	SPRING	FPC-302	FPC-636-6.7	R-63	558
FPC-187	BOX	FPC-303	FPC-637-5.7	R-61	561
FPC-188	BOX	FPC-303	FPC-637-5.7	R-63	560

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
FPC-189	SPRING	FPC-303	FPC-637-10.11	R-63	558
FPC-19	BOX	FPC-308	FPC-778-7.9	W-14	455
FPC-190	SPRING	FPC-303	FPC-637-8.9	R-61	558
FPC-191	BOX	FPC-303	FPC-637-1.4	R-63	560
FPC-192	BOX	FPC-303	FPC-637-1.4	R-63	560
FPC-193	SPRING	FPC-303	FPC-637-1.4	R-63	553
FPC-194	BOX	FPC-304	FPC-636-10.13	R-61	549
FPC-195	BOX	FPC-304	FPC-636-10.13	R-51	543
FPC-196	BOX	FPC-304	FPC-636-10.13	R-51	537
FPC-197	BOX	FPC-304	FPC-636-10.13	R-51	522
FPC-198	BOX	FPC-304	FPC-636-10.13	R-41	504
FPC-199	BOX	FPC-304	FPC-636-10.13	R-31	495
FPC-20	STRUT	FPC-308	FPC-778-7.9	W-14	453
FPC-200	BOX	FPC-304	FPC-636-14.15	R-31	484
FPC-201	RIGID	FPC-305	FPC-640-1.6	R-51	536
FPC-202	BOX	FPC-304	FPC-636-14.15	R-31	484
FPC-203	BOX	FPC-304	FPC-636-14.15	R-33	484
FPC-204	BOX	FPC-304	FPC-636-14.15	R-33	484
FPC-205	RIGID	FPC-304	FPC-636-14.15	R-33	484
FPC-206	BOX	FPC-305	FPC-640-7.9	R-31	480
FPC-207	BOX	FPC-303	FPC-637-1.4	R-63	555
FPC-208	BOX	FPC-302	FPC-636-1.3	R-63	554
FPC-209	BOX	FPC-305	FPC-671-1.4	R-61	558
FPC-21	STRUT	FPC-308	FPC-778-7.9	W-14	453
FPC-210	BOX	FPC-305	FPC-671-1.4	R-61	558
FPC-211	STRUT	FPC-305	FPC-670-1.2	R-61	558
FPC-213	BOX	FPC-305	FPC-670-1.2	R-61	561
FPC-214	BOX	FPC-305	FPC-670-3.6	R-71	581
FPC-215	BOX	FPC-305	FPC-670-3.6	R-71	601
FPC-216	BOX	FPC-305	FPC-670-3.6	R-73	601
FPC-22	SPRING	FPC-308	FPC-778-7.9	W-14	453
FPC-223	ANCHOR	FPC-305	FPC-671-1.4	R-63	558

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
FPC-224	BOX	FPC-305	FPC-671-1.4	R-63	559
FPC-226	SPRING	FPC-305	FPC-671-1.4	R-63	559
FPC-230	SPRING	FPC-305	FPC-671-1.4	R-63	559
FPC-231	BOX	FPC-305	FPC-670-1.2	R-61	569
FPC-237	BOX	FPC-201	FPC-640-10.12	R-32	468
FPC-238	BOX	FPC-201	FPC-640-10.12	R-32	468
FPC-239	BOX	FPC-201	FPC-640-10.12	R-32	468
FPC-240	BOX	FPC-305	FPC-670-3.6	R-71	601
FPC-243	BOX	FPC-305	FPC-670-12.16	R-73	602
FPC-244	BOX	FPC-305	FPC-670-12.16	R-73	572
FPC-245	BOX	FPC-305	FPC-670-12.16	R-73	569
FPC-246	BOX	FPC-305	FPC-670-7.11	R-71	602
FPC-247	BOX	FPC-305	FPC-670-7.11	R-71	572
FPC-248	BOX	FPC-305	FPC-670-7.11	R-71	569
FPC-39	SPRING	FPC-301	FPC-605-10.12	R-13	434
FPC-40	STRUT	FPC-301	FPC-605-10.12	R-13	434
FPC-41	SPRING	FPC-301	FPC-605-10.12	R-13	434
FPC-42	STRUT	FPC-301	FPC-605-10.12	R-13	434
FPC-44	ANCHOR	FPC-301	FPC-605-5.9	R-23	450
FPC-45	BOX	FPC-307	FPC-638-1.3	R-11	426
FPC-47	BOX	FPC-307	FPC-638-4.7	R-11	433
FPC-48	BOX	FPC-307	FPC-638-4.7	R-11	433
FPC-49	BOX	FPC-307	FPC-638-4.7	R-11	443
FPC-5	SPRING	FPC-308	FPC-778-1.3	W-24	482
FPC-50	BOX	FPC-307	FPC-638-4.7	R-31	472
FPC-51	BOX	FPC-301	FPC-604-1.3	R-61	558
FPC-52	BOX	FPC-301	FPC-604-1.3	R-61	558
FPC-53	BOX	FPC-301	FPC-604-1.3	R-63	558
FPC-54	BOX	FPC-301	FPC-604-4.6	R-63	558
FPC-55	BOX	FPC-301	FPC-604-4.6	R-63	558
FPC-56	BOX	FPC-301	FPC-604-4.6	R-63	558
FPC-57	BOX	FPC-301	FPC-605-1.4	R-63	558

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
FPC-58	BOX	FPC-301	FPC-605-1.4	R-63	558
FPC-59	BOX	FPC-301	FPC-605-1.4	R-63	554
FPC-6	STRUT	FPC-308	FPC-778-1.3	W-24	476
FPC-60	BOX	FPC-301	FPC-605-1.4	R-53	547
FPC-61	SPRING	FPC-301	FPC-605-5.9	R-43	518
FPC-62	BOX	FPC-301	FPC-605-5.9	R-33	496
FPC-63	BOX	FPC-301	FPC-605-5.9	R-33	486
FPC-64	BOX	FPC-301	FPC-605-5.9	R-23	470
FPC-66	RIGID	FPC-305	FPC-640-13.16	R-33	480
FPC-67	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-68	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-69	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-7	RIGID	FPC-308	FPC-778-1.3	W-24	468
FPC-70	RIGID	FPC-305	FPC-640-17.19	W-24	473
FPC-71	BOX	FPC-305	FPC-640-17.19	W-24	480
FPC-72	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-73	BOX	FPC-305	FPC-640-17.19	W-24	480
FPC-74	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-75	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-76	BOX	FPC-305	FPC-640-17.19	W-24	480
FPC-77	RIGID	FPC-305	FPC-640-17.19	W-24	480
FPC-78	BOX	FPC-305	FPC-640-20.23	W-24	479
FPC-79	RIGID	FPC-305	FPC-640-20.23	W-24	479
FPC-8	STRUT	FPC-308	FPC-778-4.6	W-14	463
FPC-82	RIGID	FPC-305	FPC-640-24.25	W-24	479
FPC-83	RIGID	FPC-305	FPC-640-24.25	W-34	487
FPC-86	SPRING	FPC-301	FPC-604-10.12	R-63	549
FPC-87	SPRING	FPC-301	FPC-604-14.17	R-63	549
FPC-88	STRUT	FPC-301	FPC-604-7.9	R-63	555
FPC-9	BOX	FPC-308	FPC-778-4.6	W-14	455
FPC-903N	ANCHOR	FPC-201	FPC-640-10.12	R-31	472
FPC-906N	BOX	FPC-304	FPC-636-14.15	R-31	484

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
FPC-907N	RIGID	FPC-307	FPC-638-4.7	R-31	482
FPC-909N	RIGID	FPC-301	FPC-605-10.12	R-13	434
FPC-91	STRUT	FPC-305	FPC-640-29.30	W-24	479
FPC-911N	BOX	FPC-305	FPC-640-7.9	R-31	480
FPC-912N	BOX	FPC-305	FPC-049-1.13	R-61	542
FPC-913N	BOX	FPC-305	FPC-049-1.13	R-61	530
FPC-915N	RIGID	FPC-305	FPC-640-31.40	R-61	550
FPC-916N	SPRING	FPC-301	FPC-604-7.9	R-63	558
FPC-919N	RIGID	FPC-301	FPC-605-1.4	R-63	558
FPC-92	RIGID	FPC-305	FPC-640-29.30	W-24	479
FPC-93	RIGID	FPC-305	FPC-640-26.28	W-34	487
FPC-98	RIGID	FPC-304	FPC-636-16.21	R-33	482
FPC-99	BOX	FPC-307	FPC-638-1.3	R-11	432
FPC-DM-1A(CS)	DEMIN BASE	FPC-304	FPC-636-6.7	W-34	489
FPC-DM-1B(CS)	DEMIN BASE	FPC-304	FPC-636-6.7	W-34	489
FPC-HX-1A(CS)	HX BASE	FPC-302	RCC-950-8.10	R-63	552
FPC-HX-1B(CS)	HX BASE	FPC-303	RCC-950-8.10	R-61	552
FPC-P-1A(CS)	PUMP BASE	FPC-301		R-63	549
FPC-P-1B(CS)	PUMP BASE	FPC-301		R-63	549
FPC-P-3(CS)	PUMP BASE	FPC-306	FPC-639-1.2	R-11	424
G306	RIGID	CRD-201	SK-X01-75C-02		534
G319	RIGID	CRD-201	SK-X01-75C-02		534
G323	RIGID	CRD-201	SK-X01-75C-02		534
G327	RIGID	CRD-201	SK-X01-75C-02		534
G333	RIGID	CRD-201	SK-X01-75C-02		535
G339	RIGID	CRD-201	SK-X01-75C-02		535
G406	RIGID	CRD-202	SK-X01-75C-02		535
G418	RIGID	CRD-202	SK-X01-75C-02		535
G422	RIGID	CRD-202	SK-X01-75C-02		535
G426	RIGID	CRD-202	SK-X01-75C-02		535
G432	RIGID	CRD-202	SK-X01-75C-02		535
G530	RIGID	CRD-201	SK-X01-75C-02		534

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
G501	RIGID	CRD-201	SK-X01-75C-02		534
G502	RIGID	CRD-201	SK-X01-75C-02		533
G503	RIGID	CRD-201	SK-X01-75C-02		533
G504	RIGID	CRD-201	SK-X01-75C-02		532
G505	RIGID	CRD-201	SK-X01-75C-02		532
G506	RIGID	CRD-201	SK-X01-75C-02		532
G600	RIGID	CRD-202	SK-X01-75C-02		535
G601	RIGID	CRD-202	SK-X01-75C-02		535
G603	RIGID	CRD-202	SK-X01-75C-02		534
G604	RIGID	CRD-202	SK-X01-75C-02		534
G605	RIGID	CRD-202	SK-X01-75C-02		534
G606	RIGID	CRD-202	SK-X01-75C-02		534
G607	RIGID	CRD-202	SK-X01-75C-02		532
G608	RIGID	CRD-202	SK-X01-75C-02		532
G613	RIGID	CRD-201	SK-X01-75C-02		534
HPCS-1	SPRING	HPCS-202	HPCS-630-1.4	R-13	420
HPCS-12	BOX	HPCS-205	HPCS-632-1.3	R-13	456
HPCS-13	ANCHOR	HPCS-202	HPCS-630-11.12	R-23	454
HPCS-15	ANCHOR	HPCS-202	HPCS-630-11.12	R-33	471
HPCS-16	STRUT	HPCS-202	HPCS-633-1.2	R-23	452
HPCS-17	STRUT	HPCS-202	HPCS-633-1.2	R-23	452
HPCS-18	STRUT	HPCS-202	HPCS-633-1.2	R-23	452
HPCS-20	RIGID	HPCS-202	HPCS-630-7.10	R-23	447
HPCS-21	RIGID	HPCS-202	HPCS-630-1.4	R-13	420
HPCS-23	SPRING	HPCS-202	HPCS-630-1.4	R-13	420
HPCS-24	STRUT	HPCS-202	HPCS-630-13.19	R-33	483
HPCS-25	SPRING	HPCS-202	HPCS-630-13.19	R-33	483
HPCS-26	STRUT	HPCS-202	HPCS-630-13.19	R-33	483
HPCS-27	STRUT	HPCS-202	HPCS-630-13.19	R-33	489
HPCS-28	BOX	HPCS-202	HPCS-630-13.19	R-33	489
HPCS-31	STRUT	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-32	SPRING	HPCS-202	HPCS-630-20.23	R-53	533

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
HPCS-33	BOX	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-34	SPRING	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-35	SPRING	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-37	ANCHOR	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-38	SPRING	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-40	STRUT	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-42	SPRING	HPCS-101	HPCS-630-26.28	240	538
HPCS-44	SPRING	HPCS-202	HPCS-633-1.2	R-23	452
HPCS-45	SPRING	HPCS-201	HPCS-629-5.7	97	434
HPCS-46	SPRING	HPCS-201	HPCS-629-5.7	97	437
HPCS-48	STRUT	HPCS-201	HPCS-629-5.7	97	430
HPCS-49	STRUT	HPCS-201	HPCS-629-5.7	97	429
HPCS-52	ANCHOR	HPCS-201	HPCS-629-1.4	97	440
HPCS-64	BOX HANGER	HPCS-101	HPCS-630-29.30	240	543
HPCS-66	SPRING	HPCS-101	HPCS-630-29.30	240	541
HPCS-7	ANCHOR	HPCS-205	HPCS-632-1.3	R-13	432
HPCS-900N	STRUT	HPCS-201	HPCS-629-1.4	97	452
HPCS-901N	BOX	HPCS-201	HPCS-629-1.4	97	444
HPCS-903N	STRUT	HPCS-202	HPCS-630-13.19	R-33	483
HPCS-904N	SPRING	HPCS-101	HPCS-630-29.30	270	537
HPCS-906N	SPRING	HPCS-101	HPCS-630-29.30	270	537
HPCS-907N	STRUT	HPCS-101	HPCS-630-26.28	240	537
HPCS-908N	STRUT	HPCS-101	HPCS-630-26.28	240	537
HPCS-909N	STRUT	HPCS-202	HPCS-630-13.19	R-33	489
HPCS-915N	STRUT	HPCS-202	HPCS-630-13.19	R-33	489
HPCS-916N	BOX	HPCS-202	HPCS-630-20.23	R-53	533
HPCS-917N	STRUT	HPCS-202	HPCS-630-13.19	R-33	489
HPCS-921N	STRUT	HPCS-205	HPCS-632-1.3	R-13	456
HPCS-922N	STRUT	HPCS-205	HPCS-632-1.3	R-13	456
HPCS-P-1(CS)	PUMP BASE	HPCS-201	F-12X20KD500X3	R-13	422
HPCS-P-2(CS)	PUMP BASE	SW-309	SW-290-1.3	H21A	441
LPCS-1	RIGID	LPCS-201	LPCS-758-3.5	66	421

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
LPCS-11	SPRING	LPCS-202	LPCS-756-1.4	R-12	440
LPCS-12	BOX	LPCS-202	LPCS-756-8.10	R-12	443
LPCS-13	SPRING	LPCS-101	LPCS-756-19.21	120	536
LPCS-14	ANCHOR	LPCS-202	LPCS-756-8.10	R-22	447
LPCS-17	BOX	LPCS-202	LPCS-756-8.10	R-22	454
LPCS-18	SPRING	LPCS-202	LPCS-756-11.15	R-22	457
LPCS-19	ANCHOR	LPCS-202	LPCS-756-11.15	R-22	470
LPCS-2	RIGID	LPCS-201	LPCS-758-3.5	66	436
LPCS-20	STRUT	LPCS-202	LPCS-756-11.15	R-32	501
LPCS-21	BOX	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-22	RIGID	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-23	SPRING	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-24	BOX	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-25	SPRING	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-3	ANCHOR	LPCS-201	LPCS-758-1.2	66	437
LPCS-31	BOX	LPCS-202	LPCS-756-5.7	R-12	424
LPCS-32	RIGID	LPCS-205	LPCS-757-1.3	R-12	430
LPCS-33	RIGID	LPCS-205	LPCS-757-1.3	R-12	434
LPCS-34	RIGID	LPCS-205	LPCS-757-1.3	R-22	444
LPCS-35	SPRING	LPCS-205	LPCS-757-1.3	R-12	435
LPCS-36	ANCHOR	LPCS-205	LPCS-757-1.3	R-22	454
LPCS-38	BOX	LPCS-202	LPCS-756-1.4	R-12	440
LPCS-39	BOX	LPCS-202	LPCS-756-1.4	R-12	440
LPCS-41	STRUT	LPCS-202	LPCS-756-11.15	R-32	501
LPCS-42	BOX	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-45	RIGID	LPCS-205	LPCS-757-1.3	R-12	430
LPCS-46	BOX	LPCS-202	LPCS-756-5.7	R-12	428
LPCS-57	BOX	LPCS-101	LPCS-756-22.24	120	543
LPCS-63	SPRING	LPCS-101	LPCS-756-22.24	120	541
LPCS-64	SPRING	LPCS-101	LPCS-756-22.24	120	539
LPCS-9	SPRING	LPCS-202	LPCS-756-1.4	R-12	425
LPCS-900N	BOX	LPCS-201	LPCS-758-1.2	66	542

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
LPCS-901N	ANCHOR	LPCS-202	LPCS-759-1	R-22	457
LPCS-902N	SPRING	LPCS-201	LPCS-758-3.5	66	435
LPCS-903N	ANCHOR	LPCS-202	LPCS-756-11.15	R-43	518
LPCS-904N	STRUT	LPCS-101	LPCS-756-19.21	120	537
LPCS-906N	SPRING	LPCS-101	LPCS-756-22.24	120	537
LPCS-907N	STRUT	LPCS-101	LPCS-756-19.21	120	538
LPCS-911N	SPRING	LPCS-205	LPCS-757-1.3	R-22	463
LPCS-P-1(CS)	PUMP BASE	LPCS-201		R-12	422
MS-100	STRUT	MS-201	MS-528-7.10	T-26	494
MS-1000N	BOX	MS-203	MS-530-4.6	T-26	494
MS-1009N	RIGID	MS-204	MS-531-4.6	T-26	494
MS-101	SPRING (2)	MS-201	MS-528-4.6	T-26	494
MS-103	BOX	MS-201	MS-528-4.6	T-26	494
MS-115	SPRING (2)	MS-201	MS-528-4.6	T-26	494
MS-117	SPRING (2)	MS-201	MS-528-4.6	T-26	494
MS-119	STRUT	MS-201	MS-528-4.6	T-26	494
MS-120	SPRING (2)	MS-201	MS-528-4.6	T-26	494
MS-121	SPRING (2)	MS-201	MS-528-4.6	T-26	494
MS-123	STRUT	MS-201	MS-528-4.6	T-26	494
MS-1368-11	SPRING	MS-105	MS-1368-1	R-45	502
MS-1369-11	SPRING	MS-105	MS-1369-1	R44	502
MS-137	SPRING	MS-201	MS-528-1.3	R-42	506
MS-139	SPRING	MS-201	MS-528-7.10	T-26	484
MS-141	SPRING	MS-203	MS-530-11	T-23	482
MS-142	SPRING	MS-202	MS-529-12	T-23	482
MS-144	SPRING	MS-202	MS-529-12	T-23	482
MS-146	SPRING (2)	MS-202	MS-529-8.11	T-23	489
MS-149	SPRING (2)	MS-202	MS-529-8.11	T-23	494
MS-150	STRUT	MS-202	MS-529-8.11	T-23	494
MS-152	SPRING (2)	MS-202	MS-529-8.11	T-23	494
MS-154	RIGID	MS-202	MS-529-8.11	T-26	494
MS-155	STRUT	MS-202	MS-529-8.11	T-26	494

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MS-157	STRUT	MS-202	MS-529-4.7	T-26	494
MS-160	STRUT	MS-202	MS-529-4.7	T-26	494
MS-163	SPRING (2)	MS-202	MS-529-4.7	T-26	494
MS-168	STRUT	MS-202	MS-529-4.7	T-26	494
MS-170	SPRING (2)	MS-202	MS-529-4.7	T-26	494
MS-171	SPRING	MS-202	MS-529-4.7	T-26	494
MS-173	SPRING	MS-202	MS-529-1.3	T-46	504
MS-176	SPRING	MS-202	MS-529-1.3	R-42	506
MS-178	SPRING	MS-202	MS-529-8.11	T-26	489
MS-180	ROD	MS-205	MS-534-1	T-26	485
MS-181	ROD	MS-205	MS-534-1	T-26	485
MS-182	ROD	MS-205	MS-534-1	T-26	485
MS-1C-1PS	STRUT	MS-105	MS-582-1.2	R-45	502
MS-24	SPRING	MS-203	MS-530-11	T-23	482
MS-26	STRUT	MS-203	MS-530-7.10	T-23	489
MS-260	SPRING	MS-105	MS-582-1.2	R-42	502
MS-261	SPRING	MS-105	MS-582-1.2	R44	502
MS-2619-17	SPRING	MS-106	MS-2619-1	R74	597
MS-2619-211	RIGID	MS-106	MS-2619-2	R-74	581
MS-2619-212	SPRING	MS-106	MS-2619-2	R-74	578
MS-2619-213	SPRING	MS-106	MS-2619-2	R-74	574
MS-2619-214	SPRING	MS-106	MS-2619-2	R-74	578
MS-2619-22	RIGID	MS-106	MS-2619-2	R-74	575
MS-2619-24	RIGID	MS-105	MS-2619-2	R-74	574
MS-2619-315	SPRING	MS-106	MS-2619-3	R-74	580
MS-2619-320	SPRING	MS-106	MS-2619-3	121	580
MS-2619-43	SPRING	MS-106	MS-2619-4	R-74	580
MS-2619-44	SPRING	MS-106	MS-2619-4	R-74	580
MS-266	SPRING	MS-301	MS-547-1	R55	546
MS-267	SPRING	MS-301	MS-547-2	R-55	530
MS-268	SPRING	MS-301	MS-547-3	R45	505
MS-269	SPRING	MS-302	MS-548-1.2	R-55	546

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MS-270	SPRING	MS-302	MS-548-3.4	R-55	520
MS-271	SPRING	MS-302	MS-548-5	R-45	516
MS-272	SPRING	MS-303	MS-549-1	R-55	546
MS-273	SPRING	MS-303	MS-549-2.3	R-55	525
MS-274	SPRING	MS-303	MS-549-4.5	R-45	509
MS-275	SPRING	MS-303	MS-549-4.5	R-45	505
MS-276	SPRING	MS-304	MS-550-1.2	R-55	546
MS-277	SPRING	MS-304	MS-550-3.4	R-55	523
MS-278	SPRING	MS-304	MS-550-3.4	R-55	523
MS-279	SPRING	MS-304	MS-550-5.6	R-47	510
MS-28	SPRING	MS-203	MS-530-7.10	T-23	494
MS-280	SPRING	MS-305	MS-538-1	R-55	546
MS-281	SPRING	MS-305	MS-538-2.3	R-45	521
MS-282	SPRING	MS-305	MS-538-4	R-45	510
MS-283	SPRING	MS-307	MS-540-1	R-55	546
MS-284	SPRING	MS-307	MS-540-2.4	R-44	527
MS-285	SPRING	MS-307	MS-540-2.4	R-57	525
MS-286	SPRING	MS-307	MS-540-5.6	R-47	509
MS-287	SPRING	MS-308	MS-541-1.2	R-55	546
MS-288	SPRING	MS-308	MS-541-1.2	R-55	539
MS-289	SPRING	MS-308	MS-541-3.4	R-55	530
MS-290	SPRING	MS-308	MS-541-3.4	R-57	528
MS-291	SPRING	MS-308	MS-541-6	R647	508
MS-292	SPRING	MS-308	MS-541-6	R-47	506
MS-293	SPRING	MS-310	MS-555-1	R-54	546
MS-294	SPRING	MS-310	MS-555-3	R-54	532
MS-295	SPRING	MS-310	MS-555-4	R-44	514
MS-296	SPRING	MS-311	MS-554-1	R-54	547
MS-297	SPRING	MS-311	MS-554-2	R-54	528
MS-298	SPRING	MS-311	MS-554-3	R-56	525
MS-299	SPRING	MS-311	MS-554-4	R-46	508
MS-30	SPRING (2)	MS-203	MS-530-7.10	T-26	494

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MS-300	SPRING	MS-312	MS-553-1	R-54	533
MS-301	SPRING	MS-312	MS-553-2	R-54	533
MS-302	SPRING	MS-312	MS-553-3.4	R-56	527
MS-303	SPRING	MS-312	MS-553-3.4	R-56	527
MS-304	SPRING	MS-313	MS-552-1.2	R-54	547
MS-305	SPRING	MS-313	MS-552-3.4	R-56	528
MS-306	SPRING	MS-313	MS-552-3.4	R-56	528
MS-307	SPRING	MS-313	MS-552-5.6	R-56	509
MS-308	SPRING	MS-315	MS-546-1	R-54	546
MS-309	SPRING	MS-315	MS-546-3	R-54	530
MS-310	SPRING	MS-315	MS-546-4	R-44	509
MS-311	SPRING	MS-316	MS-545-1	R-54	546
MS-312	SPRING	MS-316	MS-545-3	R-54	524
MS-313	SPRING	MS-316	MS-545-5	R-44	509
MS-314	SPRING	MS-317	MS-544-1	R-54	546
MS-315	SPRING	MS-317	MS-544-4.5	R-44	511
MS-316	SPRING	MS-317	MS-544-4.5	R-44	511
MS-317	SPRING	MS-318	MS-543-1	R-54	547
MS-318	SPRING	MS-318	MS-543-3	R-54	525
MS-319	SPRING	MS-318	MS-543-3	R-44	504
MS-320	SPRING	MS-306	MS-539-1	R-55	546
MS-321	SPRING	MS-306	MS-539-3	R-55	523
MS-322	SPRING	MS-306	MS-539-3	R-55	523
MS-323	SPRING	MS-306	MS-539-4.5	R-47	509
MS-324	SPRING	MS-314	MS-551-1	R-66	547
MS-325	SPRING	MS-314	MS-551-1	R-66	543
MS-326	SPRING	MS-314	MS-551-3	R-56	539
MS-327	SPRING	MS-314	MS-551-4.5	R-46	509
MS-328	SPRING	MS-309	MS-542-1.2	R-57	546
MS-329	SPRING	MS-309	MS-542-3.4	R-57	535
MS-33	SPRING (2)	MS-203	MS-530-4.6	T-26	494
MS-330	SPRING	MS-309	MS-542-7	F-47	509

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MS-332	SPRING	MS-302	MS-548-5	R-45	505
MS-333	SPRING	MS-304	MS-550-5.6	R-47	506
MS-334	SPRING	MS-305	MS-538-4	R-45	505
MS-335	SPRING	MS-307	MS-540-5.6	R-47	505
MS-336	SPRING	MS-310		R-44	505
MS-337	SPRING	MS-311	MS-554-4	R-56	505
MS-338	SPRING	MS-312	MS-553-5.6	R-46	505
MS-339	SPRING	MS-313	MS-552-5.6	R-56	507
MS-34	STRUT	MS-203	MS-530-4.6	T-26	494
MS-340	SPRING	MS-315	MS-546-4	R-44	506
MS-341	SPRING	MS-316	MS-545-5	R-44	505
MS-342	SPRING	MS-317	MS-544-4.5	R-44	505
MS-344	SPRING	MS-306	MS-539-4.5	R-47	505
MS-345	SPRING	MS-309	MS-542-6	R-47	506
MS-346	SPRING	MS-314	MS-551-4.5	R-46	506
MS-36	STRUT	MS-203	MS-530-4.6	T-26	494
MS-37	SPRING (2)	MS-203	MS-530-4.6	T-26	494
MS-39	STRUT	MS-203	MS-530-4.6	T-26	494
MS-40	STRUT	MS-203	MS-530-4.6	T-26	494
MS-42	SPRING (2)	MS-203	MS-530-4.6	T-26	494
MS-44	SPRING	MS-203	MS-530-1.3	T-36	506
MS-47	SPRING	MS-203	MS-530-1.3	R-42	506
MS-48	SPRING	MS-203	MS-530-7.10	T-26	489
MS-50	SPRING	MS-204	MS-531-11	T-23	482
MS-51	SPRING (2)	MS-204	MS-531-7.10	T-23	492
MS-55	SPRING (2)	MS-204	MS-531-7.10	T-23	494
MS-58	SPRING (2)	MS-204	MS-531-7.10	T-26	494
MS-59	STRUT	MS-204	MS-531-4.6	T-26	494
MS-61	STRUT	MS-204	MS-531-4.6	T-26	494
MS-62	SPRING (2)	MS-204	MS-531-4.6	T-26	494
MS-63	SPRING (2)	MS-204	MS-531-4.6	T-26	494
MS-65	STRUT	MS-204	MS-531-4.6	T-26	494

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MS-66	SPRING (2)	MS-204	MS-531-4.6	T-26	494
MS-68	STRUT	MS-204	MS-531-4.6	T-26	494
MS-69	SPRING	MS-204	MS-531-4.6	T-26	494
MS-71	SPRING	MS-204	MS-531-1.3	T-36	504
MS-74	SPRING	MS-204	MS-531-1.3	R-41	506
MS-87	SPRING	MS-204	MS-531-7.10	T-26	489
MS-88	SPRING	MS-201	MS-528-11.12	T-23	482
MS-89	SPRING (2)	MS-201	MS-528-7.10	T-23	489
MS-921N	STRUT	MS-203	MS-530-4.6	T-26	494
MS-924N	SPRING	MS-201	MS-528-7.10	T-23	494
MS-93	SPRING (2)	MS-201	MS-528-7.10	T-23	494
MS-94	BOX	MS-201	MS-528-7.10	T-23	494
MS-95	STRUT	MS-201	MS-528-7.10	T-23	494
MS-97	SPRING (2)	MS-201	MS-528-7.10	T-26	494
MS-98	STRUT	MS-201	MS-528-7.10	T-26	494
MS-992N	BOX	MS-201	MS-528-7.10	T-26	494
MS-994N	BOX	MS-203	MS-530-7.10	T-23	494
MS-HA-1	SPRING (2)	MS-101	BC/G 211A	72	560
MS-HA-2	SPRING (2)	MS-101	BC/G 211A	16	514
MS-HB-1	SPRING (2)	MS-102	BC/G 212	108	562
MS-HB-2	SPRING	MS-102	BC/G 212	70	543
MS-HB-3	SPRING (2)	MS-102	BC/G 212	26	515
MS-HC-1	SPRING (2)	MS-103	BC/G 213	252	559
MS-HC-2	SPRING	MS-103	BC/G 213	300	543
MS-HC-3	SPRING (2)	MS-103	BC/G 213	333	514
MS-HD-1	SPRING	MS-104	BC/G 214	288	557
MS-HD-2	SPRING (2)	MS-104	BC/G 214	343	515
MSRV-1A-7PS	RIGID	MS-301	MS-547-3	R45	501
MSRV-1B-6PS	RIGID	MS-305	MS-538-4	R-45	501
MSRV-1C-6PS	RIGID	MS-310	MS-555-4	R-44	501
MSRV-1D-7PS	RIGID	MS-315	MS-546-4	R-44	501
MSRV-2A-5PS	RIGID	MS-302	MS-548-3	R-45	501

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
MSRV-2B-9PS	RIGID	MS-306	MS-539-4.5	R-47	501
MSRV-2C-10PS	RIGID	MS-311	MS-554-4	R-56	501
MSRV-2D-6PS	RIGID	MS-316	MS-545-5	R-44	501
MSRV-3A-7PS	RIGID	MS-303	MS-549-4.5	R-45	501
MSRV-3D-8PS	RIGID	MS-317	MS-544-4.5	R-44	501
MSRV-4A-8PS	RIGID	MS-304	MS-550-5.6	R-47	501
MSRV-4B-9PS	SPRING	MS-308	MS-541-6	R-47	501
MSRV-4D-7PS	RIGID	MS-318	MS-543-3	R-44	501
MSRV-5B-10PS	RIGID	MS-309	MS-542-6	R-47	501
RCC-255	BOX	RCC-201	RCC-949-10.12	R-42	514
RCC-256	SPRING	RCC-201	RCC-949-10.12	R-42	514
RCC-267	SPRING	RCC-301	RCC-831-1.2	R-45	512
RCC-269	BOX	RCC-301	RCC-831-3.5	R-35	500
RCC-274	SPRING	RCC-301	RCC-831-6.10	R-37	500
RCC-276	BOX	RCC-301	RCC-831-6.10	R-37	500
RCC-279	SPRING	RCC-301	RCC-831-6.10	R-37	500
RCC-280	ANCHOR	RCC-301	RCC-831-6.10	R-37	500
RCC-285	STRUT	RCC-301	RCC-831-11.15	R-36	500
RCC-287	ANCHOR	RCC-301	RCC-831-11.15	R-36	500
RCC-306	BOX	RCC-302	RCC-830-12.13	R-37	500
RCC-308	STRUT	RCC-302	RCC-830-12.13	R-37	500
RCC-309	STRUT	RCC-302	RCC-830-12.13	R-37	500
RCC-311	STRUT	RCC-302	RCC-830-20.21	R-37	500
RCC-312	STRUT	RCC-302	RCC-830-20.21	R-37	500
RCC-315	SPRING	RCC-302	RCC-830-20.21	R-37	500
RCC-316	ANCHOR	RCC-302	RCC-830-20.21	R-37	500
RCC-325	SPRING	RCC-302	RCC-830-20.21	R-37	500
RCC-327	SPRING	RCC-302	RCC-830-30.32	R-45	502
RCC-345	SPRING	RCC-302	RCC-830-37.39	R-45	522
RCC-389	SPRING	RCC-202	RCC-948-1.3	R-42	514
RCC-434	ANCHOR	RCC-301	RCC-831-38.40	R-55	536
RCC-439	STRUT	RCC-301	RCC-831-23.26	R-55	530

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RCC-440	ANCHOR	RCC-301	RCC-831-23.26	R-57	530
RCC-443	ANCHOR	RCC-301	RCC-831-23.26	R-57	536
RCC-462	SPRING	RCC-302	RCC-830-12.13	R-37	500
RCC-465	SPRING	RCC-302	RCC-830-30.32	R-45	503
RCC-469	STRUT	RCC-301	RCC-831-11.15	R-36	500
RCC-472	STRUT	RCC-302	RCC-830-12.13	R-37	500
RCC-475	STRUT	RCC-302	RCC-830-20.21	R-37	500
RCC-477	STRUT	RCC-301	RCC-831-38.40	R-55	532
RCC-478	STRUT	RCC-301	RCC-831-23.26	R-57	536
RCC-487	STRUT	RCC-302	RCC-830-20.21	R-37	500
RCC-488	BOX	RCC-302	RCC-830-20.21	R-37	500
RCC-908N	BOX	RCC-301	RCC-831-3.5	R-37	500
RCC-912N	STRUT	RCC-301	RCC-831-1.2	R-45	529
RCC-913N	STRUT	RCC-301	RCC-831-23.26	R-55	530
RCC-935N	RIGID	RCC-304	RCC-825-19.21	R-61	556
RCC-937N	RIGID	RCC-304	RCC-825-19.21	R-61	552
RCC-938N	RIGID	RCC-304	RCC-825-19.21	R-61	553
RCC-939N	RIGID	RCC-304	RCC-825-19.21	R-61	551
RCC-940N	RIGID	RCC-304	RCC-825-19.21	R-61	551
RCC-941N	RIGID	RCC-304	RCC-825-19.21	R-61	552
RCC-945N	RIGID	RCC-303	RCC-950-8.10	R-61	557
RCC-946N	RIGID	RCC-303	RCC-950-8.10	R-61	559
RCC-947N	RIGID	RCC-303	RCC-950-8.10	R-61	561
RCC-948N	RIGID	RCC-303	RCC-950-8.10	R-61	559
RCC-949N	SPRING	RCC-303	RCC-950-8.10	R-61	556
RCC-950N	RIGID	RCC-303	RCC-950-8.10	R-61	561
RCC-951N	RIGID	RCC-303	RCC-950-8.10	R-61	561
RCC-952N	RIGID	RCC-303	RCC-950-8.10	R-61	559
RCIC-10	STRUT	RCIC-205	RCIC-659-3.6	R-11	438
RCIC-102	STRUT	RCIC-102	RCIC-659-24	165	554
RCIC-103	STRUT	RCIC-102	RCIC-659-24	165	555
RCIC-104	SPRING	RCIC-102	RCIC-659-24	165	556

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RCIC-11	BOX	RCIC-205	RCIC-659-3.6	R-11	432
RCIC-12	BOX	RCIC-205	RCIC-659-3.6	R-11	426
RCIC-127	SPRING	RCIC-102	RCIC-659-27.28	180	586
RCIC-129	SPRING	RCIC-102	RCIC-659-27.28	170	596
RCIC-13	BOX	RCIC-205	RCIC-659-1.2	R-11	426
RCIC-14	BOX	RCIC-205	RCIC-659-7.10	R-11	438
RCIC-15	BOX	RCIC-205	RCIC-659-7.10	R-11	438
RCIC-16	BOX	RCIC-205	RCIC-659-7.10	R-11	438
RCIC-17	BOX	RCIC-205	RCIC-659-7.10	R-11	438
RCIC-18	RIGID	RCIC-205	RCIC-659-7.10	R-11	438
RCIC-19	BOX	RCIC-205	RCIC-659-7.10	R-13	438
RCIC-20	BOX	RCIC-205	RCIC-659-7.10	R-13	438
RCIC-21	STRUT	RCIC-205	RCIC-659-7.10	R-13	438
RCIC-22	BOX	RCIC-205	RCIC-659-11.17	R-33	472
RCIC-23	STRUT	RCIC-203	RCIC-660-2.4	R-21	468
RCIC-24	STRUT	RCIC-203	RCIC-660-2.4	R-21	469
RCIC-25	STRUT	RCIC-203	RCIC-660-2.4	R-21	465
RCIC-27	SPRING	RCIC-203	RCIC-660-5	R-31	470
RCIC-28	BOX	RCIC-203	RCIC-661-1.2	R-11	443
RCIC-29	ANCHOR	RCIC-205	RCIC-659-11.17	R-43	502
RCIC-3	SPRING (2)	RCIC-203	RCIC-660-1	R-11	438
RCIC-30	SPRING	RCIC-203	RCIC-661-1.2	R-11	435
RCIC-31	SPRING	RCIC-205	RCIC-659-1.2	R-11	431
RCIC-47	BOX	RCIC-204	RCIC-656-1.3	R-21	452
RCIC-52	ANCHOR	RCIC-204	RCIC-658-1.2	R-11	440
RCIC-53	SPRING	RCIC-204	RCIC-658-1.2	R-11	437
RCIC-54	SPRING	RCIC-205	RCIC-642-1.5	R-21	447
RCIC-56	SPRING	RCIC-204	RCIC-656-1.3	R-21	452
RCIC-59	SPRING (2)	RCIC-101	RCIC-662-2.4	35	519
RCIC-6	SPRING	RCIC-203	RCIC-660-2.4	R-21	453
RCIC-61	SPRING	RCIC-101	RCIC-662-2.4	59	532
RCIC-66	SPRING	RCIC-101	RCIC-662-2.4	40	531

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RCIC-67	SPRING	RCIC-101	RCIC-662-2.4	82	531
RCIC-68	SPRING	RCIC-101	RCIC-662-2.4	102	531
RCIC-7	ANCHOR	RCIC-203	RCIC-660-2.4	R-21	455
RCIC-72	SPRING	RCIC-101	RCIC-662-1	114	540
RCIC-74	SPRING	RCIC-101	RCIC-663-1.2	130	550
RCIC-75	SPRING	RCIC-101	RCIC-663-1.2	120	547
RCIC-79	BOX	RCIC-205	RCIC-659-11.17	R-53	524
RCIC-8	STRUT	RCIC-205	RCIC-642-1.5	R-21	447
RCIC-80	STRUT	RCIC-205	RCIC-659-11.17	R-63	548
RCIC-82	BOX	RCIC-205	RCIC-659-11.17	R-63	560
RCIC-83	SPRING	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-86	SPRING	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-88	BOX	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-9	BOX	RCIC-205	RCIC-642-1.5	R-11	444
RCIC-90	STRUT	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-901N	STRUT	RCIC-204	RCIC-656-5.8	R-11	433
RCIC-902N	SPRING	RCIC-204	RCIC-656-1.3	R-11	435
RCIC-903N	STRUT	RCIC-204	RCIC-657-1.2	R-11	435
RCIC-904N	BOX	RCIC-204	RCIC-657-1.2	R-11	435
RCIC-91	ANCHOR	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-916N	STRUT	RCIC-204	RCIC-657-1.2	R-11	435
RCIC-927N	ANCHOR	RCIC-204	RCIC-656-1.3	R-11	435
RCIC-93	BOX	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-940N	SPRING	RCIC-102	RCIC-659-27.28	170	593
RCIC-941N	SPRING	RCIC-102	RCIC-659-27.28	170	591
RCIC-942N	SPRING	RCIC-102	RCIC-659-26	165	567
RCIC-95	BOX	RCIC-205	RCIC-659-18.21	R-63	564
RCIC-952N	BOX	RCIC-205	RCIC-659-11.17	R-33	479
RCIC-954N	BOX	RCIC-205	RCIC-659-11.17	R-23	458
RCIC-955N	BOX	RCIC-205	RCIC-659-11.17	R-13	443
RCIC-956N	STRUT	RCIC-205	RCIC-659-7.10	R-13	438
RCIC-966N	STRUT	RCIC-205	RCIC-659-3.6	R-11	442

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RCIC-97	SPRING	RCIC-205	RCIC-659-22.23	R-63	564
RCIC-973N	STRUT	RCIC-205	RCIC-659-3.6	R-11	438
RCIC-98	STRUT	RCIC-205	RCIC-659-22.23	R-63	564
RCIC-99	STRUT	RCIC-205	RCIC-659-22.23	R-63	564
RCIC-F-1(CS)	PUMP BASE	RCIC-204	RCIC-659-24.25	R-11	422
RFW-152	SPRING	RFW-101	RFW-418-7.8	R-65	543
RFW-156	SPRING	RFW-101	RFW-418-9.10	R-65	546
RFW-157	SPRING	RFW-101	RFW-418-9.10	R-65	560
RFW-158	SPRING	RFW-101	RFW-418-11.12	R-64	559
RFW-159	SPRING	RFW-101	RFW-418-13	R-67	560
RFW-173	SPRING	RFW-102	RFW-419-8.9	R-64	543
RFW-175	SPRING	RFW-102	RFW-419-12.13	330	545
RFW-177	SPRING	RFW-103	RFW-438-1.2	R-42	514
RFW-178	BOX	RFW-103	RFW-438-1.2	R-42	514
RFW-179	SPRING	RFW-103	RFW-438-1.2	R-42	514
RFW-181	SPRING	RFW-103	RFW-438-3	R-42	514
RFW-182	SPRING	RFW-102	RFW-419-4	R-44	515
RFW-183	SPRING	RFW-102	RFW-419-8.9	R-64	560
RFW-184	SPRING	RFW-102	RFW-419-10.11	270	558
RFW-185	SPRING	RFW-102	RFW-419-12.13	330	560
RFW-186	SPRING	RFW-101	RFW-418-4	R-45	518
RFW-903N	SPRING	RFW-103	RFW-438-3	R-42	514
RHR-1004N	STRUT	RHR-201	RHR-851-3.9	R-52	532
RHR-1011S	PIPE CLAMP	RHR-201	RHR-851-3.9	R-62	566
RHR-1012S	PIPE CLAMP	RHR-201	RHR-851-3.9	R-62	566
RHR-1017N	SPRING	RHR-103	RHR-897-19	354	540
RHR-1019N	STRUT	RHR-201	RHR-851-18.19	R-52	527
RHR-1020N	STRUT	RHR-207	RHR-898-36.38	R-23	465
RHR-117	SPRING	RHR-209	RHR-879-1.3	R-23	447
RHR-118	SPRING	RHR-209	RHR-875-9.12	R-13	432
RHR-119	STRUT	RHR-205	RHR-875-13.16	R-11	434
RHR-120	STRUT	RHR-205	RHR-875-13.16	R-11	434

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-122	STRUT	RHR-206	RHR-881-4.7	R-11	436
RHR-123	BOX	RHR-206	RHR-881-4.7	R-11	436
RHR-124	STRUT	RHR-206	RHR-881-4.7	R-11	436
RHR-125	STRUT	RHR-206	RHR-881-8.13	R-11	436
RHR-126	STRUT	RHR-206	RHR-881-8.13	R-11	436
RHR-127	BOX	RHR-206	RHR-881-8.13	R-12	436
RHR-128	BOX	RHR-206	RHR-881-8.13	R-12	436
RHR-129	STRUT	RHR-206	RHR-881-8.13	R-12	436
RHR-130	BOX	RHR-206	RHR-881-8.13	R-12	436
RHR-131	STRUT	RHR-206	RHR-881-8.13	R-12	436
RHR-132	ANCHOR	RHR-206	RHR-881-8.13	R-12	436
RHR-135	STRUT	RHR-205	RHR-881-1.3	R-11	441
RHR-136	STRUT	RHR-205	RHR-881-1.3	R-21	452
RHR-138	SPRING	RHR-205	RHR-881-1.3	R-21	448
RHR-139	SPRING	RHR-211	RHR-880-1.6	R-12	434
RHR-140	SPRING	RHR-211	RHR-880-1.6	R-11	434
RHR-144	SPRING	RHR-201	RHR-867-16.19	R-21	465
RHR-146	SPRING	RHR-201	RHR-867-16.19	R-21	454
RHR-148	BOX	RHR-201	RHR-867-16.19	R-21	454
RHR-149	STRUT	RHR-201	RHR-867-16.19	R-21	454
RHR-150	SPRING	RHR-203	RHR-854-12.16	R-31	473
RHR-157	SPRING	RHR-201	RHR-867-1.4	R-11	435
RHR-159	STRUT	RHR-201	RHR-867-1.4	R-11	438
RHR-161	SPRING	RHR-201	RHR-867-1.4	R-11	438
RHR-162	STRUT	RHR-201	RHR-867-1.4	R-11	440
RHR-163	STRUT	RHR-201	RHR-867-1.4	R-11	441
RHR-164	STRUT	RHR-201	RHR-867-5.7	R-21	458
RHR-165	STRUT	RHR-201	RHR-867-5.7	R-21	459
RHR-166	SPRING	RHR-205	RHR-875-6.8	R-13	434
RHR-167	SPRING	RHR-209	RHR-875-9.12	R-13	437
RHR-174	BOX	RHR-201	RHR-867-8.12	R-31	477
RHR-176	STRUT	RHR-205	RHR-875-13.16	R-11	421

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-181	SPRING	RHR-207	RHR-976-1.4	R-33	473
RHR-184	STRUT	RHR-207	RHR-976-1.4	R-33	477
RHR-185	SPRING	RHR-207	RHR-976-1.4	R-43	512
RHR-187	SPRING	RHR-201	RHR-867-16.19	R-21	446
RHR-188	SPRING	RHR-201	RHR-867-5.7	R-21	470
RHR-219	SPRING	RHR-207	RHR-976-7.8	R-33	492
RHR-228	ANCHOR	RHR-207	RHR-745-1.2	R-63	550
RHR-230	BOX	RHR-207	RHR-745-1.2	R-63	553
RHR-231	SPRING	RHR-101	RHR-851-20	4	530
RHR-234	BOX	RHR-201	RHR-851-3.9	R-52	535
RHR-237	STRUT	RHR-201	RHR-851-3.9	R-52	535
RHR-238	ANCHOR	RHR-201	RHR-851-3.9	R-62	550
RHR-240	BOX	RHR-201	RHR-851-10.12	R-42	519
RHR-243	SPRING	RHR-201	RHR-851-13	R-42	512
RHR-245	BOX	RHR-201	RHR-855-1.3	R-42	502
RHR-247	SPRING	RHR-201	RHR-855-1.3	R-32	492
RHR-248	SPRING	RHR-202	RHR-853-1.4	R-62	560
RHR-249	BOX	RHR-202	RHR-853-1.4	R-62	560
RHR-252	SPRING	RHR-202	RHR-853-1.4	R-62	560
RHR-257	SPRING	RHR-202	RHR-853-5.6	R-63	561
RHR-261	SPRING	RHR-201	RHR-851-13	R-42	512
RHR-262	SPRING	RHR-203	RHR-854-1.5	R-62	566
RHR-263	SPRING	RHR-201	RHR-851-3.9	R-61	562
RHR-265	SPRING	RHR-203	RHR-854-1.5	R-64	566
RHR-266	BOX	RHR-201	RHR-851-3.9	R-61	566
RHR-267	BOX	RHR-201	RHR-851-3.9	R-61	566
RHR-268	BOX	RHR-201	RHR-851-3.9	R-61	566
RHR-278	BOX	RHR-203	RHR-854-1.5	R-61	566
RHR-279	SPRING	RHR-203	RHR-854-1.5	R-61	566
RHR-280	SPRING	RHR-201	RHR-851-3.9	R-61	566
RHR-295	BOX	RHR-210	RHR-897-10.14	R-22	460
RHR-296	SPRING	RHR-210	RHR-897-10.14	R-22	458

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-297	RIGID	RHR-210	RHR-897-10.14	R-22	458
RHR-298	BOX	RHR-210	RHR-897-3.5	R-22	447
RHR-302	STRUT	RHR-210	RHR-897-3.5	R-22	447
RHR-303	SPRING	RHR-210	RHR-897-3.5	R-22	447
RHR-316	SPRING	RHR-210	RHR-897-6.9	R-22	450
RHR-318	RIGID	RHR-210	RHR-897-6.9	R-22	450
RHR-319	RIGID	RHR-210	RHR-897-6.9	R-22	450
RHR-320	SPRING	RHR-210	RHR-897-6.9	R-22	463
RHR-321	SPRING	RHR-210	RHR-897-1.2	R-12	441
RHR-322	BOX	RHR-210	RHR-897-1.2	R-12	441
RHR-323	SPRING	RHR-210	RHR-897-1.2	R-12	430
RHR-324	STRUT	RHR-210	RHR-897-25.30	R-12	434
RHR-337	STRUT	RHR-210	RHR-897-25.30	R-12	435
RHR-338	SPRING	RHR-210	RHR-897-25.30	R-12	439
RHR-346	STRUT	RHR-210	RHR-897-25.30	R-22	452
RHR-347	BOX	RHR-210	RHR-897-25.30	R-22	452
RHR-348	SPRING	RHR-210	RHR-897-25.30	R-22	453
RHR-349	SPRING	RHR-210	RHR-897-25.30	R-22	458
RHR-35	SPRING	RHR-211	RHR-880-1.6	R-12	424
RHR-350	SPRING	RHR-201	RHR-851-18.19	R-52	527
RHR-351	SPRING	RHR-201	RHR-851-3.9	R-61	566
RHR-352	STRUT	RHR-201	RHR-851-3.9	R-62	564
RHR-353	STRUT	RHR-201	RHR-851-3.7	R-62	565
RHR-354	SPRING	RHR-201	RHR-852-1.4	R-61	556
RHR-358	BOX	RHR-201	RHR-852-1.4	R-61	550
RHR-360	SPRING	RHR-201	RHR-852-1.4	R-61	550
RHR-363	SPRING	RHR-201	RHR-852-1.4	R-61	550
RHR-365	STRUT	RHR-201	RHR-851-1.2	R-61	553
RHR-366	STRUT	RHR-201	RHR-851-1.2	R-61	553
RHR-367	SPRING	RHR-201	RHR-851-1.2	R-61	562
RHR-368	STRUT	RHR-201	RHR-851-1.2	R-61	556
RHR-37	BOX	RHR-211	RHR-880-1.6	R-12	427

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-391	ANCHOR	RHR-212	RHR-667-16.19	R-21	462
RHR-392	BOX	RHR-212	RHR-667-20.21	R-21	451
RHR-393	BOX	RHR-212	RHR-667-20.21	R-21	448
RHR-394	SPRING	RHR-212	RHR-667-20.21	R-11	440
RHR-395	SPRING	RHR-212	RHR-667-16.19	R-21	462
RHR-40	STRUT	RHR-211	RHR-880-1.6	R-12	434
RHR-407	SPRING	RHR-203	RHR-854-1.5	R-61	560
RHR-408	STRUT	RHR-203	RHR-854-6.11	R-61	557
RHR-409	BOX	RHR-203	RHR-854-6.11	R-51	547
RHR-41	BOX	RHR-211	RHR-880-1.6	R-12	435
RHR-410	ANCHOR	RHR-203	RHR-854-6.11	R-51	524
RHR-411	BOX	RHR-203	RHR-854-6.11	R-31	500
RHR-412	STRUT	RHR-203	RHR-854-6.11	R-31	494
RHR-415	STRUT	RHR-203	RHR-854-6.11	R-31	494
RHR-417	STRUT	RHR-203	RHR-854-12.16	R-31	476
RHR-420	SPRING	RHR-203	RHR-854-12.16	R-31	485
RHR-423	SPRING	RHR-206	RHR-881-8.13	R-12	436
RHR-425	SPRING	RHR-104	RHR-874-1.3	225	510
RHR-428	SPRING	RHR-104	RHR-874-1.3	225	510
RHR-43	SPRING	RHR-211	RHR-882-5	R-12	434
RHR-431	SPRING	RHR-104	RHR-874-1.3	225	510
RHR-432	SPRING	RHR-206	RHR-881-8.13	R-12	436
RHR-433	SPRING	RHR-207	RHR-899-1.4	R-63	563
RHR-434	BOX	RHR-207	RHR-899-1.4	R-63	553
RHR-435	STRUT	RHR-207	RHR-899-1.4	R-63	553
RHR-436	BOX	RHR-207	RHR-899-1.4	R-63	553
RHR-438	STRUT	RHR-207	RHR-899-1.4	R-63	563
RHR-46	BOX	RHR-211	RHR-882-1.4	R-12	438
RHR-461	SPRING	RHR-207	RHR-900-1.5	R-63	557
RHR-462	SPRING	RHR-207	RHR-899-1.4	R-63	566
RHR-464	BOX	RHR-207	RHR-899-5.7	R-63	566
RHR-467	STRUT	RHR-207	RHR-899-5.7	R-63	566

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-468	SPRING	RHR-207	RHR-899-5.7	R-63	566
RHR-469	SPRING	RHR-207	RHR-899-5.7	R-63	566
RHR-47	STRUT	RHR-211	RHR-882-1.4	R-22	445
RHR-470	STRUT	RHR-207	RHR-899-36.37	R-63	561
RHR-471	SPRING	RHR-205	RHR-875-6.8	R-11	434
RHR-473	SPRING	RHR-207	RHR-899-36.37	R-63	561
RHR-475	ANCHOR	RHR-207	RHR-899-8.11	R-63	550
RHR-476	BOX	RHR-207	RHR-745-1.2	R-63	556
RHR-478	SPRING	RHR-207	RHR-899-8.11	R-53	541
RHR-480	STRUT	RHR-207	RHR-899-8.11	R-53	538
RHR-482	STRUT	RHR-102	RHR-899-38	135	525
RHR-483	SPRING	RHR-102	RHR-899-38	135	532
RHR-486	SPRING	RHR-207	RHR-899-8.11	R-53	533
RHR-488	ANCHOR	RHR-207	RHR-899-12.17	R-43	515
RHR-49	STRUT	RHR-211	RHR-880-1.6	R-11	434
RHR-491	SPRING	RHR-207	RHR-899-12.17	R-43	517
RHR-493	SPRING	RHR-207	RHR-899-18.19	R-43	515
RHR-497	SPRING	RHR-207	RHR-899-18.19	R-43	515
RHR-498	SPRING	RHR-207	RHR-899-20.22	R-41	511
RHR-50	STRUT	RHR-211	RHR-880-1.6	R-11	434
RHR-501	SPRING	RHR-207	RHR-899-20.22	R-41	511
RHR-504	SPRING	RHR-105	RHR-851-15.16	85	509
RHR-506	SPRING	RHR-105	RHR-851-15.16	100	509
RHR-51	STRUT	RHR-211	RHR-880-1.6	R-11	434
RHR-510	SPRING	RHR-105	RHR-851-17	80	509
RHR-512	SPRING	RHR-106	RHR-899-46.47	265	509
RHR-514	SPRING	RHR-106	RHR-899-46.47	280	509
RHR-518	SPRING	RHR-106	RHR-899-48	275	509
RHR-520	RIGID	RCIC-102	RHR-748-1	165	550
RHR-521	SPRING	RHR-102	RHR-899-39.44	135	563
RHR-522	SPRING	RHR-102	RHR-899-39.44	135	557
RHR-523	SPRING	RHR-102	RHR-899-39.44	135	534

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-524	SPRING	RHR-103	RHR-897-20.24	354	556
RHR-525	SPRING	RHR-103	RHR-897-20.24	315	563
RHR-526	SPRING	RHR-103	RHR-897-20.24	354	534
RHR-527	SPRING	RHR-101	RHR-851-21.24	4	534
RHR-528	SPRING	RHR-101	RHR-851-21.24	4	544
RHR-529	SPRING	RHR-101	RHR-851-21.24	25	563
RHR-53	SPRING	RHR-207	RHR-978-1.4	R-63	556
RHR-539	STRUT	RHR-207	RHR-898-9.14	R-53	522
RHR-54	SPRING	RHR-207	RHR-978-1.4	R-63	551
RHR-540	STRUT	RHR-207	RHR-898-9.14	R-53	522
RHR-55	BOX	RHR-206	RHR-881-8.13	R-12	438
RHR-552	STRUT	RHR-207	RHR-898-9.14	R-73	575
RHR-553	STRUT	RHR-207	RHR-898-9.14	R-73	575
RHR-554	STRUT	RHR-207	RHR-898-9.14	R-73	575
RHR-555	SPRING	RHR-207	RHR-898-9.14	R-73	587
RHR-559	SPRING	RHR-207	RHR-900-1.5	R-63	550
RHR-56	SPRING	RHR-205	RHR-875-6.8	R-11	434
RHR-560	SPRING	RHR-207	RHR-900-1.5	R-63	550
RHR-561	STRUT	RHR-207	RHR-900-1.5	R-63	550
RHR-58	ANCHOR	RHR-205	RHR-875-6.8	R-11	434
RHR-581	STRUT	RHR-208	RHR-898-18.20	R-73	595
RHR-597	STRUT	RHR-204	RHR-867-28.30	R-71	597
RHR-598	SPRING	RHR-201	RHR-867-13.15	R-71	593
RHR-600	STRUT	RHR-201	RHR-867-13.15	R-71	575
RHR-601	STRUT	RHR-201	RHR-867-13.15	R-71	575
RHR-604	SPRING	RHR-201	RHR-867-8.12	R-61	567
RHR-605	STRUT	RHR-201	RHR-867-8.12	R-51	523
RHR-606	STRUT	RHR-201	RHR-867-8.12	R-51	512
RHR-608	SPRING	RHR-208	RHR-898-18.20	R-73	597
RHR-609	SPRING	RHR-207	RHR-900-1.5	R-63	560
RHR-62	SPRING	RHR-205	RHR-875-6.8	R-13	434
RHR-66	SPRING	RHR-205	RHR-875-1.5	R-13	434

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-68	STRUT	RHR-205	RHR-875-1.5	R-13	437
RHR-69	STRUT	RHR-205	RHR-875-1.5	R-23	462
RHR-70	STRUT	RHR-205	RHR-875-1.5	R-23	462
RHR-71	ANCHOR	RHR-205	RHR-875-1.5	R-33	483
RHR-76	SPRING	RHR-205	RHR-875-1.5	R-23	465
RHR-77	SPRING	RHR-205	RHR-875-1.5	R-33	490
RHR-78	SPRING	RHR-104	RHR-874-6	200	504
RHR-79	SPRING	RHR-209	RHR-875-9.12	R-13	437
RHR-80	STRUT	RHR-209	RHR-875-9.12	R-13	437
RHR-81	STRUT	RHR-209	RHR-875-9.12	R-13	421
RHR-84	ANCHOR	RHR-209	RHR-879-1.3	R-13	438
RHR-90	BOX	RHR-210	RHR-897-15.18	R-52	525
RHR-900N	STRUT	RHR-211	RHR-882-1.4	R-22	450
RHR-904N	STRUT	RHR-209	RHR-879-1.3	R-23	452
RHR-905N	STRUT	RHR-211	RHR-882-1.4	R-22	452
RHR-909N	STRUT	RHR-205	RHR-881-1.3	R-21	452
RHR-91	STRUT	RHR-210	RHR-897-15.18	R-52	525
RHR-910N	STRUT	RHR-207	RHR-899-45	R-41	511
RHR-916N	RIGID	RHR-206	RHR-881-8.13	R-12	436
RHR-917N	SPRING	RHR-205	RHR-875-13.16	R-11	430
RHR-918N	BOX	RHR-207	RHR-898-1.4	R-13	441
RHR-919N	BOX	RHR-207	RHR-898-1.4	R-23	446
RHR-920N	BOX	RHR-207	RHR-898-5.8	R-23	460
RHR-921N	BOX	RHR-207	RHR-898-5.8	R-33	486
RHR-923N	SPRING	RHR-207	RHR-898-1.4	R-13	434
RHR-924N	SPRING	RHR-207	RHR-898-5.8	R-23	464
RHR-925N	SPRING	RHR-207	RHR-898-36.38	R-23	464
RHR-926N	SPRING	RHR-207	RHR-898-1.4	R-13	441
RHR-927N	SPRING	RHR-207	RHR-898-36.38	R-23	465
RHR-928N	SPRING	RHR-207	RHR-898-36.38	R-23	446
RHR-929N	SPRING	RHR-207	RHR-898-1.4	R-13	441
RHR-931N	SPRING	RHR-207	RHR-898-33	R-33	480

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-932N	SPRING	RHR-207	RHR-898-39.40	R-23	
RHR-934N	SPRING	RHR-224	RHR-898-34.35	R-33	475
RHR-937N	RIGID	RHR-207	RHR-898-33	R-33	480
RHR-94	STRUT	RHR-210	RHR-897-10.14	R-42	517
RHR-95	SPRING	RHR-210	RHR-897-10.14	R-42	517
RHR-956N	BOX	RHR-207	RHR-899-5.7	R-63	566
RHR-958N	ANCHOR	RHR-202	RHR-853-1.4	R-62	556
RHR-96	BOX	RHR-210	RHR-897-10.14	R-42	517
RHR-963N	BOX	RHR-201	RHR-855-1.3	R-32	498
RHR-964N	ANCHOR	RHR-201	RHR-651-10.12	R-42	512
RHR-965N	ANCHOR	RHR-201	RHR-851-18.19	R-52	527
RHR-966N	ANCHOR	RHR-211	RHR-882-1.4	R-12	438
RHR-967N	ANCHOR	RHR-207	RHR-898-36.38	R-23	465
RHR-968N	ANCHOR	RHR-207	RHR-898-5.8	R-33	488
RHR-97	BOX	RHR-210	RHR-897-10.14	R-42	505
RHR-970N	ANCHOR	RHR-201	RHR-867-8.12	R-31	501
RHR-971N	ANCHOR	RHR-201	RHR-867-16.19	R-21	465
RHR-972N	BOX	RHR-210	RHR-897-25.30	R-22	446
RHR-973N	ANCHOR	RHR-210	RHR-897-25.30	R-22	444
RHR-976N	STRUT	RHR-207	RHR-899-12.17	R-43	515
RHR-979N	RIGID	RCIC-102	RHR-748-1	165	550
RHR-98	STRUT	RHR-210	RHR-897-10.14	R-42	504
RHR-984N	SPRING	RHR-204	RHR-867-28.30	R-71	597
RHR-99	ANCHOR	RHR-210	RHR-897-10.14	R-32	471
RHR-990N	BOX	RHR-212	RHR-667-16.19	R-21	462
RHR-996N	ANCHOR	RHR-210	RHR-897-15.18	R-52	525
RHR-997N	ANCHOR	RHR-210	RHR-897-6.9	R-22	455
RHR-999N	STRUT	RHR-210	RHR-897-6.9	R-22	456
RHR-HX-1A(CS)	HX BASE	RHR-214		R-71	572
RHR-HX-1B(CS)	HX BASE	RHR-214		R-73	572
RHR-P-2A(CS)	RHR PUMP BASE	RHR-213	F-29APKD500X4-C	R-11	422
RHR-P-2B(CS)	RHR PUMP BASE	RHR-213	F-29APKD500X4-C	R-13	422

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RHR-P-2C(CS)	RHR PUMP BASE	RHR-213	RHR-897-20.24	R-12	422
RPV STAB 135	STABLIZER	RPV-101	M886	R-68	570
RPV STAB 225	STABLIZER	RPV-101	M886	R-68	570
RPV STAB 315	STABLIZER	RPV-101	M886	R-68	570
RPV STAB 45	STABLIZER	RPV-101	M886	R-68	570
RPV(CS)	SKIRT & BAS PLT	RPV-101	M886	R-48	516
RRC-1	SPRING	RRC-105	RRC-565-1	R-46	513
RRC-10	SPRING	RRC-107	RRC-568-1	R-46	509
RRC-11	SPRING	RHR-104	RHR-874-1.3	225	510
RRC-1C-12	SPRING	RRC-104	RRC-564-1.3	15	514
RRC-1C-6PS	STRUT	RRC-109	RRC-569-1.2	10	500
RRC-1C-8PS	STRUT	RRC-108	RRC-566-1	R-35	500
RRC-2	SPRING	RRC-108	RRC-566-1	R-37	500
RRC-3	SPRING	RRC-108	RRC-566-1	R-37	500
RRC-4	SPRING	RRC-108	RRC-566-1	R-35	500
RRC-6	SPRING	RRC-109	RRC-569-1.2	354	500
RRC-9	SPRING	RRC-106	RRC-567-1	R-45	509
RRC-900N	STRUT	RRC-103	BC/G-216	135	506
RRC-901N	STRUT	RRC-103	BC/G-218	315	506
RRC-HA-1	SPRING	RRC-101	BC/G-215	180	524
RRC-HA-2	SPRING	RRC-103	BC/G-216	141	528
RRC-HA-3	SPRING	RRC-103	BC/G-216	141	526
RRC-HA-4	SPRING	RRC-103	BC/G-216	141	528
RRC-HA-5	SPRING	RRC-103	BC/G-216	141	526
RRC-HA-7	SPRING	RRC-101	BC/G-216	100	506
RRC-HA-8	SPRING	RRC-101	BC/G-216	82	528
RRC-HA-9	SPRING	RRC-101	BC/G-216	80	528
RRC-HB-1	SPRING (2)	RRC-102	BC/G-217	0	524
RRC-HB-2	SPRING	RRC-103	BC/G-218	315	528
RRC-HB-3	SPRING	RRC-103	BC/G-218	315	526
RRC-HB-4	SPRING	RRC-103	BC/G-218	315	528
RRC-HB-5	SPRING	RRC-103	BC/G-218	315	528

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
RRC-HB-7	SPRING	RRC-102	BC/G-218	270	506
RRC-HB-8	SPRING	RRC-102	BC/G-218	280	528
RRC-HB-9	SPRING	RRC-102	BC/G-218	264	528
RRC-RA-1	STRUT	RRC-103	BC/G-216	170	506
RRC-RB-1	STRUT	RRC-103	BC/G-218	315	506
RWCU-139	SPRING	RWCU-101	RWCU-812-3.6	150	541
RWCU-140	SPRING	RWCU-101	RWCU-812-3.6	130	538
RWCU-141	SPRING	RWCU-101	RWCU-812-3.6	90	538
RWCU-142	SPRING	RWCU-101	RWCU-812-2	90	533
RWCU-143	SPRING	RWCU-101	RWCU-811-1.2	45	500
RWCU-144	SPRING	RWCU-101	RWCU-811-1.2	45	505
RWCU-145	SPRING	RWCU-101	RWCU-812-1	75	500
RWCU-146	SPRING	RWCU-101	RWCU-812-1	75	500
RWCU-1C-1PS	PIPE STOP	RWCU-101	RWCU-812-3.6	150	538
RWCU-1C-2PS	STRUT	RWCU-101	RWCU-812-3.6	100	538
RWCU-1C-3PS	STRUT	RWCU-101	RWCU-812-2	75	532
RWCU-1C-4PS	STRUT	RWCU-101	RWCU-812-2	75	509
RWCU-1C-5PS	STRUT	RWCU-101	RWCU-812-2	75	512
RWCU-1C-7PS	STRUT	RWCU-101	RWCU-812-1	75	500
RWCU-1C-9PS	STRUT	RWCU-101	RWCU-811-1.2	45	500
SDV-A(CS)	SDV BASE	CRD-201	SK-X01-75C-02	R-51	524
SDV-B(CS)	SDV BASE	CRD-202	SK-X01-75C-02	R-52	524
SLC-TK-1(CS)	SLC TK SUPPORT	SLC-101			
SW RING HDR A(C	RING HDR SUPPT	SW-307	S533	E	436
SW RING HDR B(C	RING HDR SUPPT	SW-303	S533	E	436
SW-118	SPRING	SW-305	SW-251-34.35	R-53	536
SW-119	SPRING (2)	SW-305	SW-251-30.33	R-43	510
SW-120	BOX	SW-301	SW-250-41.50	R-31	500
SW-121	SPRING (2)	SW-301	SW-250-41.50	R-41	503
SW-122	SPRING (2)	SW-301	SW-250-52.54	R-51	548
SW-123	RIGID	SW-301	SW-250-52.54	R-61	549
SW-126	STRUT	SW-301	SW-250-31.40	R-22	462

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-127	STRUT	SW-303	SW-296-33.36	R-13	432
SW-128	BOX	SW-303	SW-296-27.32	R-13	435
SW-129	BOX	SW-303	SW-296-27.32	R-13	435
SW-13	BOX	SW-309	SW-290-1.3	H21A	442
SW-130	RIGID	SW-303	SW-296-27.32	R-13	435
SW-131	BOX	SW-303	SW-296-27.32	R-13	439
SW-132	STRUT	SW-303	SW-296-27.32	R-23	458
SW-133	STRUT	SW-303	SW-296-17.26	R-23	460
SW-134	STRUT	SW-303	SW-296-17.26	R-23	460
SW-135	STRUT	SW-303	SW-296-17.26	R-23	460
SW-136	BOX	SW-303	SW-296-17.26	R-23	460
SW-137	RIGID	SW-303	SW-296-17.26	R-22	460
SW-138	BOX	SW-303	SW-296-17.26	R-22	460
SW-139	STRUT	SW-303	SW-296-17.26	R-22	460
SW-140	BOX	SW-303	SW-296-17.26	R-22	460
SW-141	STRUT	SW-303	SW-296-17.26	R-22	460
SW-142	RIGID	SW-303	SW-296-17.26	R-21	460
SW-143	STRUT	SW-303	SW-296-7.16	R-21	460
SW-144	BOX	SW-303	SW-296-7.16	R-21	460
SW-145	BOX	SW-303	SW-296-7.16	R-21	460
SW-146	STRUT	SW-303	SW-296-7.16	R-21	460
SW-147	BOX	SW-303	SW-296-7.16	R-31	475
SW-148	SPRING (2)	SW-303	SW-296-7.16	R-31	473
SW-149	BOX	SW-303	SW-296-7.16	R-41	505
SW-150	SPRING (2)	SW-303	SW-296-7.16	R-41	503
SW-151	STRUT	SW-303	SW-296-1.5	R-51	542
SW-152	RIGID	SW-303	SW-296-1.5	R-61	548
SW-153	BOX	SW-303	SW-296-1.5	R-61	552
SW-154	STRUT	SW-303	SW-296-1.5	R-61	554
SW-155	BOX	SW-303	SW-296-1.5	R-61	559
SW-156	STRUT	SW-303	SW-296-1.5	R-61	562
SW-171	STRUT	SW-301	SW-250-31.40	R-22	462

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-172	STRUT	SW-301	SW-250-25.30	R-23	458
SW-173	STRUT	SW-301	SW-250-31.40	R-22	462
SW-174	BOX	SW-301	SW-250-1.3	H21A	443
SW-179	STRUT	SW-305	SW-251-30.33	R-43	502
SW-180	STRUT	SW-307	SW-295-7.11	R-33	500
SW-19	BOX	SW-307	SW-295-39.42	H11B	433
SW-194	STRUT	SW-305	SW-251-30.33	R-33	472
SW-195	BOX	SW-307	SW-295-7.11	R-33	474
SW-196	STRUT	SW-305	SW-251-34.35	R-43	520
SW-197	BOX	SW-307	SW-295-4.6	R-43	519
SW-198	BOX	SW-305	SW-251-1.3	H21B	443
SW-20	BOX	SW-303	SW-296-54.57	H11A	433
SW-200	STRUT	SW-301	SW-250-41.50	R-21	462
SW-201	STRUT	SW-301	SW-250-41.50	R-21	462
SW-202	STRUT	SW-301	SW-250-41.50	R-51	523
SW-203	RIGID	SW-303	SW-296-17.26	R-22	460
SW-207	STRUT	SW-303	SW-296-17.26	R-22	460
SW-208	STRUT	SW-303	SW-296-7.16	R-21	460
SW-212	BOX	SW-303	SW-296-6	R-51	527
SW-22	SPRING	SW-305	SW-322-1.2	R-63	554
SW-227	STRUT	SW-303	SW-296-27.32	R-13	432
SW-228	STRUT	SW-303	SW-296-7.16	R-21	460
SW-229	STRUT	SW-303	SW-296-7.16	R-21	464
SW-23	SPRING	SW-305	SW-251-36.37	R-63	562
SW-230	BOX	SW-303	SW-296-27.32	R-23	449
SW-231	BOX	SW-302	SW-300-4.9	D-11	448
SW-232	BOX	SW-302	SW-300-4.9	D-11	448
SW-233	BOX	SW-302	SW-300-4.9	D-11	448
SW-234	BOX	SW-302	SW-300-4.9	D-11	448
SW-235	BOX	SW-302	SW-300-4.9	D-11	448
SW-236	BOX	SW-302	SW-300-4.9	D-11	448
SW-237	BOX	SW-302	SW-300-1.3	D-11	448

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-24	RIGID	SW-305	SW-251-36.37	R-63	556
SW-243	RIGID	SW-302	SW-300-1.3	D-11	448
SW-25	RIGID	SW-305	SW-251-34.35	R-53	537
SW-251	BOX	SW-308	SW-283-1.5	D-11	448
SW-252	BOX	SW-308	SW-283-1.5	D-11	448
SW-253	BOX	SW-308	SW-283-1.5	D-11	448
SW-254	BOX	SW-308	SW-283-1.5	D-11	448
SW-255	BOX	SW-308	SW-283-1.5	D-11	448
SW-256	BOX	SW-308	SW-283-1.5	D-11	448
SW-257	BOX	SW-308	SW-283-1.5	D-11	448
SW-258	BOX	SW-308	SW-283-6	D-11	448
SW-259	BOX	SW-308	SW-283-6	D-11	448
SW-26	BOX	SW-305	SW-251-34.35	R-43	521
SW-266	BOX	SW-306	SW-293-3.8	D-11	448
SW-267	BOX	SW-306	SW-293-3.8	D-11	448
SW-268	BOX	SW-302	SW-250-21.24	D-11	442
SW-269	BOX	SW-302	SW-300-1.3	D-11	447
SW-27	STRUT	SW-305	SW-251-30.33	R-43	502
SW-270	BOX	SW-302	SW-300-4.9	D-11	447
SW-273	BOX	SW-310	SW-290-21.23	D-11	442
SW-28	STRUT	SW-305	SW-251-30.33	R-33	472
SW-280	STRUT	SW-310	SW-290-24.29	D-11	448
SW-282	BOX	SW-311	SW-112-7.9	D-11	445
SW-291	BOX	SW-311	SW-112-7.9	D-11	447
SW-292	BOX	SW-306	SW-293-3.8	D-11	448
SW-293	BOX	SW-306	SW-293-3.8	D-11	448
SW-294	BOX	SW-306	SW-293-3.8	D-11	448
SW-30	STRUT	SW-305	SW-251-30.33	R-23	462
SW-301	BOX	SW-306	SW-293-1.2	D-11	448
SW-302	BOX	SW-306	SW-293-1.2	D-11	447
SW-303	BOX	SW-306	SW-293-1.2	D-11	447
SW-304	BOX	SW-308	SW-295-19.22	D-11	442

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-306	BOX	SW-306	SW-293-3.8	D-11	448
SW-307	BOX	SW-306	SW-293-3.8	D-11	448
SW-308	BOX	SW-306	SW-293-3.8	D-11	447
SW-31	BOX	SW-305	SW-251-30.33	R-23	462
SW-310	BOX	SW-310	SW-290-24.29	D-11	448
SW-312	BOX	SW-306	SW-293-1.2	D-11	442
SW-315	STRUT	SW-303	SW-296-27.32	R-13	432
SW-317	RIGID	SW-301	SW-250-31.40	R-22	462
SW-318	STRUT	SW-301	SW-250-25.30	R-13	435
SW-32	BOX	SW-305	SW-251-23.29	R-23	452
SW-33	BOX	SW-305	SW-251-23.29	R-23	443
SW-34	RIGID	SW-305	SW-251-23.29	R-13	432
SW-348	BOX	SW-304	SW-304-1.5	D-11	448
SW-349	BOX	SW-304	SW-304-1.5	D-11	448
SW-35	STRUT	SW-305	SW-251-23.29	R-13	432
SW-350	BOX	SW-304	SW-304-1.5	D-11	448
SW-351	BOX	SW-304	SW-304-1.5	D-11	448
SW-352	BOX	SW-304	SW-304-1.5	D-11	448
SW-353	BOX	SW-304	SW-304-1.5	D-11	447
SW-354	BOX	SW-304	SW-304-6	D-11	448
SW-355	BOX	SW-304	SW-304-6	D-11	443
SW-356	BOX	SW-304	SW-304-1.5	D-11	448
SW-357	BOX	SW-304	SW-304-1.5	D-11	448
SW-358	BOX	SW-304	SW-304-1.5	D-11	447
SW-36	RIGID	SW-305	SW-251-19.22	R-13	432
SW-386	STRUT	SW-307	SW-295-4.6	R-53	533
SW-426	BOX	SW-304	SW-304-6	D-11	448
SW-430	STRUT	SW-301	SW-250-41.50	R-51	523
SW-431	RIGID	SW-303	SW-296-7.16	R-21	460
SW-432	STRUT	SW-303	SW-296-7.16	R-21	460
SW-433	BOX	SW-303	SW-296-17.26	R-23	460
SW-434	BOX	SW-301	SW-250-41.50	R-21	462

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-435	BOX	SW-301	SW-250-31.40	R-22	462
SW-436	STRUT	SW-301	SW-250-25.30	R-13	435
SW-437	STRUT	SW-301	SW-250-25.30	R-13	432
SW-438	RIGID	SW-303	SW-296-17.26	R-22	460
SW-439	RIGID	SW-303	SW-296-33.36	R-13	432
SW-449	RIGID	SW-310	SW-290-24.29	D-11	445
SW-57	RIGID	SW-301	SW-250-21.24	R-13	432
SW-58	BOX	SW-301	SW-250-25.30	R-13	435
SW-59	BOX	SW-301	SW-250-25.30	R-13	435
SW-6	BOX	SW-307	SW-295-39.42	H11B	433
SW-60	RIGID	SW-301	SW-250-25.30	R-13	435
SW-61	STRUT	SW-301	SW-250-25.30	R-13	438
SW-62	STRUT	SW-301	SW-250-25.30	R-23	462
SW-63	BOX	SW-301	SW-250-31.40	R-23	462
SW-64	BOX	SW-301	SW-250-31.40	R-23	462
SW-65	STRUT	SW-301	SW-250-31.40	R-23	462
SW-66	BOX	SW-301	SW-250-31.40	R-23	462
SW-67	RIGID	SW-301	SW-250-31.40	R-22	462
SW-68	BOX	SW-301	SW-250-31.40	R-22	462
SW-69	RIGID	SW-301	SW-250-31.40	R-22	462
SW-7	BOX	SW-307	SW-295-39.42	H11B	433
SW-70	STRUT	SW-301	SW-250-31.40	R-22	462
SW-71	STRUT	SW-301	SW-250-31.40	R-23	462
SW-72	RIGID	SW-301	SW-250-31.40	R-22	462
SW-73	STRUT	SW-301	SW-250-41.50	R-21	462
SW-74	STRUT	SW-301	SW-250-41.50	R-21	462
SW-75	RIGID	SW-301	SW-250-41.50	R-21	462
SW-76	STRUT	SW-301	SW-250-41.50	R-21	462
SW-77	BOX	SW-301	SW-250-41.50	R-21	470
SW-78	SPRING (2)	SW-301	SW-250-41.50	R-31	473
SW-79	STRUT	SW-307	SW-295-1.3	R-63	562
SW-8	BOX	SW-303	SW-296-47.53	H11A	433

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-80	BOX	SW-307	SW-295-1.3	R-63	559
SW-81	BOX	SW-307	SW-295-1.3	R-63	554
SW-83	STRUT	SW-307	SW-295-4.6	R-53	524
SW-84	STRUT	SW-307	SW-295-7.11	R-43	503
SW-86	STRUT	SW-307	SW-295-7.11	R-23	460
SW-87	BOX	SW-307	SW-295-7.11	R-23	460
SW-88	BOX	SW-307	SW-295-12.18	R-23	445
SW-89	BOX	SW-307	SW-295-12.18	R-23	444
SW-9	BOX	SW-303	SW-296-54.57	H11A	433
SW-90	RIGID	SW-307	SW-295-12.18	R-13	432
SW-91	STRUT	SW-307	SW-295-19.22	R-13	432
SW-913N	STRUT	SW-301	SW-250-25.30	R-13	432
SW-916N	RIGID	SW-307	SW-295-4.6	R-63	548
SW-917N	SPRING	SW-307	SW-295-4.6	R-53	539
SW-918N	STRUT	SW-303	SW-296-54.57	H11A	433
SW-919N	BOX	SW-307	M-200/707	E	436
SW-92	RIGID	SW-307	SW-295-19.22	R-13	432
SW-920N	BOX	SW-307	M-200/707	E	436
SW-921N	BOX	SW-307	M-200/707	E	436
SW-922N	BOX	SW-307	M-200/707	E	436
SW-923N	BOX	SW-307	M-200/707	E	436
SW-924N	BOX	SW-307	M-200/707	E	436
SW-925N	BOX	SW-307	M-200/707	E	436
SW-926N	BOX	SW-307	M-200/707	E	436
SW-927N	BOX	SW-307	M-200/707	E	436
SW-928N	BOX	SW-307	M-200/707	E	436
SW-929N	BOX	SW-307	M-200/707	E	436
SW-930N	BOX	SW-307	M-200/707	E	436
SW-931N	BOX	SW-307	M-200/707	E	436
SW-932N	BOX	SW-307	M-200/707	E	436
SW-933N	BOX	SW-307	M-200/707	E	436
SW-934N	BOX	SW-307	M-200/707	E	436

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-935N	BOX	SW-307	M-200/707	E	436
SW-936N	BOX	SW-303	M-200/708	E	436
SW-937N	BOX	SW-303	M-200/708	E	436
SW-938N	BOX	SW-303	M-200/708	E	436
SW-939N	BOX	SW-303	M-200/708	E	436
SW-940N	BOX	SW-303	M-200/708	E	436
SW-941N	BOX	SW-303	M-200/708	E	436
SW-942N	STRUT	SW-301	SW-250-31.40	R-22	462
SW-943N	STRUT	SW-307	SW-295-39.42	H11B	433
SW-946N	RIGID	SW-314	SW-251-38.64	R-53	548
SW-948N	RIGID	SW-315	SW-295-43.68	R-53	535
SW-949N	RIGID	SW-315	SW-295-43.68	R-53	531
SW-950N	RIGID	SW-315	SW-295-43.68	R-53	531
SW-951N	RIGID	SW-315	SW-295-43.68	R-53	548
SW-953N	RIGID	SW-314	SW-251-38.64	R-53	537
SW-954N	RIGID	SW-314	SW-251-38.64	R-53	531
SW-955N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-956N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-957N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-958N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-959N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-960N	RIGID	SW-313	SW-296-58.77	R-51	535
SW-961N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-962N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-963N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-964N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-965N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-966N	RIGID	SW-312	SW-250-55.75	R-51	532
SW-982N	ANCHOR	SW-312	SW-500-1.5	R-61	549
SW-983N	ANCHOR	SW-314	SW-501-1.10	R-63	556
SW-984N	RIGID	SW-313	SW-502-1.3	R-61	549
SW-985N	RIGID	SW-315	SW-503-1.3	R-53	531

TABLE 6.1
COMPONENT SUPPORTS
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION
SW-986N	RIGID	SW-312	SW-500-1.5	R-61	549
SW-P-1A(CS)	PUMP BASE	SW-301	2C-5173	H21A	441
SW-P-1B(CS)	PUMP BASE	SW-305	2C-5173	H21B	441

TOTAL COUNT = 1187

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
CEP-905S	PSA-1/2 SNUBBER	+GC I SN	CEP-625-10	R-62	560	UW3
CEP-907S	PSA-1/2 SNUBBER	+GC I SN	CEP-625-11.12	R-62	556	UW3
CEP-908N	PSA-3 SNUBBER	+GC I SN	CEP-625-5.8	R-72	573	UX3
DE-2	PSA-3 SNUBBER	+GC I SN	DE-797-1.5	D-21	475	UX3
DE-23	PSA-3 SNUBBER	+GC I SN	DE-065-1.19	D-21	476	UX3
DE-2836-15	PSA-1/2 SNUBBER	+GC I SN	DE-2836-1	D-11	457	UW3
DE-2837-17	PSA-1/4 SNUBBER	+GC I SN	DE-2837-1	D-11	456	UW3
DE-2838-18	PSA-1/4 SNUBBER	+GC I SN	DE-2838-1	D-11	456	UW3
DE-2839-14B	PSA-1/4 SNUBBER	+GC I SN	DE-2839-1	D-11	442	UW3
DE-3	PSA-3 SN(2)	+GC I SN	DE-797-1.5	D-21	478	UX3
DE-49	PSA-3 SNUBBER	+GC I SN	DE-064-1.19	D-21	474	UX3
DE-57	PSA-3 SNUBBER	+GC I SN	DE-062-1.19	D-21	474	UX3
DE-59	PSA-3 SNUBBER	+GC I SN	DE-063-1.19	D-21	478	UX3
DE-902N	PSA-1 SN(2)	+GC I SN	DE-797-1.5	D-21	459	UX3
EDR-903N	PSA-1/2 SN(2)	+GC I SN	EDE-526-7.9	R-23	469	UW3
EDR-904N	PSA-1/4 SNUBBER	+GC I SN	EDE-526-7.9	R-23	469	UW3
EDR-905N	PSA-1 SNUBBER	+GC I SN	EDR-526-7.9	R-23	469	UX3
EDR-906N	PSA-1/4 SNUBBER	+GC I SN	EDE-526-7.9	R-23	469	UW3
FDR-903N	PSA-1 SNUBBER	+GC I SN	FDR-527-7.9	R-23	468	UX3
FDR-901N	PSA-1/4 SNUBBER	+GC I SN	FDR-527-7.9	R-23	468	UW3
FDR-902N	PSA-1 SNUBBER	+GC I SN	FDR-527-7.9	R-23	468	UX3
FDR-903N	PSA-3 SN(2)	+GC I SN	FDR-527-7.9	R-23	468	UX3
FPC-225	PSA-1 SNUBBER	FPC-305	FPC-671-1.4	R-63	559	UVX3
FPC-227	PSA-3 SNUBBER	FPC-305	FPC-671-1.4	R-63	559	UVX3
FPC-228	PSA-1/2 SN(2)	FPC-305	FPC-671-1.4	R-63	559	UVW3
FPC-229	PSA-3 SNUBBER	FPC-305	FPC-671-1.4	R-63	559	UVX3
FPC-43	PSA-3 SNUBBER	FPC-301	FPC-605-10.12	R-13	434	UVX3
FPC-65	PSA-1 SNUBBER	FPC-301	FPC-604-7.9	R-63	558	UVX3
FPC-908N	PSA-1 SN(2)	FPC-301	FPC-605-10.12	R-13	434	UVX3
FPC-916N	PSA-1 SNUBBER	FPC-301	FPC-604-7.9	R-63	558	UVX3
HPCS-905N	PSA-10 SNUBBER	HPCS-202	HPCS-630-24.25	R-53	538	UVX3
HPCS-924N	PSA-3 SN(2)	HPCS-202	HPCS-630-24.25	R-53	538	UVX3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 198F

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
HPCS-925N	PSA-3 SNUBBER	HPCS-202	HPCS-630-24.25	R-53	538	UVX3
HS-104	PSA-3 SNUBBER	+QC I SN	R400 CWH	R-72	590	UX3
HS-109	PSA-1/2 SNUBBER	+QC I SN	R400 CWH	R-72	599	UW3
HS-115	PSA-1/4 SN(2)	+QC I SN	R400 CWH	R-72	599	UW3
HY-4235-110	PSA-1/4 SNUBBER	+QC I SN	HY-4235-1	R-51	527	UW3
HY-4236-110	PSA-1/4 SNUBBER	+QC I SN	HY-4236-1	R-51	527	UW3
HY-4237-110	PSA-1/4 SNUBBER	+QC I SN	HY-4237-1	R-51	527	UW3
RCIC-1	PSA-1 SNUBBER	RCIC-203	RCIC-660-1	R-11	425	UVX3
RCIC-100	PSA-1/2 SN(2)	RCIC-205	RCIC-659-22.23	R-63	564	UVW3
RCIC-1490-13	PSA-1/2 SNUBBER	+QC I SN	RCIC-1490-1	R-31	475	UW3
RCIC-2	PSA-1 SNUBBER	RCIC-203	RCIC-660-1	R-11	429	UVX3
RCIC-2562-2F	PSA-1/2 SNUBBER	+QC I SN	RCIC-2562-2	R-21	467	UW3
RCIC-26	PSA-3 SNUBBER	RCIC-203	RCIC-660-5	R-31	470	UVX3
RCIC-34	PSA-1/2 SNUBBER	RCIC-201	RCIC-662-11.15	R-21	433	UW3
RCIC-38	PSA-1 SN(2)	RCIC-201	RCIC-662-6	R-42	512	UX3
RCIC-4	PSA-1 SNUBBER	RCIC-203	RCIC-660-2.4	R-11	440	UX3
RCIC-5	PSA-1/2 SN(2)	RCIC-203	RCIC-660-2.4	R-21	445	UW3
RCIC-943N	PSA-10 SNUBBER	RCIC-201	RCIC-662-6	R-42	512	UX3
RCIC-944N	PSA-3 SN(2)	RCIC-201	RCIC-662-6	R-42	512	UX3
RCIC-945N	PSA-10 SNUBBER	RCIC-201	RCIC-662-6	R-42	512	UX3
RCIC-961N	PSA-1/4 SNUBBER	RCIC-201	RCIC-662-11.15	R-21	433	UW3
RCIC-962N	PSA-1/2 SNUBBER	RCIC-201	RCIC-662-11.15	R-21	433	UW3
RCIC-967N	PSA-1/4 SN(2)	RCIC-204	RCIC-658-1.2	R-11	436	UVW3
RCIC-971N	PSA-1 SNUBBER	RCIC-203	RCIC-660-2.4	R-11	440	UVX3
RHR-1000N	PSA-3 SNUBBER	RHR-201	RHR-867-13.15	R-71	593	UVX3
RHR-1001N	PSA-3 SN(2)	RHR-201	RHR-867-13.15	R-71	593	UVX3
RHR-1062N	PSA-3 SN(2)	RHR-207	RHR-698-9.14	R-73	593	UVX3
RHR-1021N	PSA-3 SN(2)	RHR-210	RHR-897-1.2	R-12	441	UVX3
RHR-121	PSA-10 SN(2)	RHR-206	RHR-881-4.7	R-11	436	UVX3
RHR-137	PSA-3 SN(2)	RHR-205	RHR-881-1.3	R-11	441	UVX3
RHR-142	PSA-1 SN(2)	RHR-201	RHR-867-20.22	R-21	468	UVX3
RHR-145	PSA-1 SNUBBER	RHR-201	RHR-867-16.19	R-21	465	UVX3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-147	PSA-1 SN(2)	RHR-201	RHR-867-16.19	R-21	454	UVX3
RHR-150	PSA-3 SN(2)	RHR-203	RHR-854-12.16	R-31	473	UVX3
RHR-158	PSA-3 SNUBBER	RHR-201	RHR-867-1.4	R-11	438	UVX3
RHR-160	PSA-3 SNUBBER	RHR-201	RHR-867-1.4	R-11	438	UVX3
RHR-183	PSA-10 SN(2)	RHR-207	RHR-976-5.6	R-33	472	UVX3
RHR-20	PSA-1/2 SNUBBER	+GC I SN	RHR-863-34.38	R-22	455	UW3
RHR-200	PSA-1/2 SNUBBER	+GC I SN	RHR-977-1.2	R-62	548	UW3
RHR-206	PSA-1 SNUBBER	+GC I SN	RHR-883-16.19	R-21	558	UX3
RHR-210	PSA-1/2 SNUBBER	+GC I SN	RHR-883-16.19	R-21	457	UW3
RHR-214	PSA-1/2 SNUBBER	+GC I SN	RHR-863-16.19	R-23	454	UW3
RHR-218	PSA-10 SN(2)	RHR-207	RHR-976-1.4	R-33	494	UVX3
RHR-23	PSA-1/4 SN(2)	+GC I SN	RHR-883-34.38	R-22	445	UW3
RHR-235	PSA-10 SNUBBER	RHR-201	RHR-851-3.9	R-52	531	UVX3
RHR-251	PSA-3 SNUBBER	RHR-202	RHR-853-1.4	R-62	560	UVX3
RHR-256	PSA-3E SNUBBER	RHR-202	RHR-853-5.6	R-62	551	UVY3
RHR-264	PSA-3 SN(2)	RHR-201	RHR-851-3.9	R-61	562	UVX3
RHR-269	PSA-3 SNUBBER	RHR-201	RHR-851-3.9	R-61	566	UVX3
RHR-270	PSA-3 SNUBBER	RHR-201	RHR-851-3.9	R-61	566	UVX3
RHR-271	PSA-3 SN(2)	RHR-201	RHR-851-3.9	R-61	566	UVX3
RHR-274	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	566	UVX3
RHR-275	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	566	UVX3
RHR-276	PSA-3 SN(2)	RHR-203	RHR-854-1.5	R-61	566	UVX3
RHR-277	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	566	UVX3
RHR-290	PSA-1/2 SNUBBER	+GC I SN	RHR-883-20.22	R-23	444	UW3
RHR-301	PSA-3 SNUBBER	RHR-210	RHR-857-3.5	R-22	447	UVX3
RHR-304	PSA-10 SN(2)	RHR-210	RHR-897-3.5	R-22	447	UVX3
RHR-311	PSA-3 SN(2)	RHR-210	RHR-897-3.5	R-12	444	UVX3
RHR-325	PSA-1/2 SNUBBER	+GC I SN	RHR-667-3.7	R-61	549	UW3
RHR-326	PSA-1/4 SN(2)	+GC I SN	RHR-667-3.7	R-61	548	UW3
RHR-332	PSA-1 SNUBBER	+GC I SN	RHR-667-3.7	R-31	496	UX3
RHR-333	PSA-1/2 SNUBBER	+GC I SN	RHR-667-3.7	R-31	498	UW3
RHR-334	PSA-1/4 SNUBBER	+GC I SN	RHR-667-3.7	R-31	498	UW3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-345	PSA-1 SN(2)	RHR-210	RHR-897-25.30	R-22	449	UVX3
RHR-355	PSA-3 SNUBBER	RHR-201	RHR-852-1.4	R-61	560	UVX3
RHR-356	PSA-10 SNUBBER	RHR-201	RHR-852-1.4	R-61	560	UVX3
RHR-357	PSA-10 SNUBBER	RHR-201	RHR-852-1.4	R-61	550	UVX3
RHR-359	PSA-3 SNUBBER	RHR-201	RHR-852-1.4	R-61	550	UVX3
RHR-361	PSA-3 SNUBBER	RHR-201	RHR-852-1.4	R-61	550	UVX3
RHR-362	PSA-3 SN(2)	RHR-201	RHR-852-1.4	R-61	550	UVX3
RHR-369	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	560	UVX3
RHR-373	PSA-1 SNUBBER	+GC I SN	RHR-667-8.12	R-31	483	UX3
RHR-39	PSA-3 SN(2)	RHR-211	RHR-880-1.6	R-12	434	UVX3
RHR-400	PSA-1/2 SNUBBER	+GC I SN	RHR-667-22.23	R-33	473	UW3
RHR-401	PSA-1/2 SN(2)	+GC I SN	RHR-667-22.23	R-33	473	UW3
RHR-403	PSA-1 SNUBBER	+GC I SN	RHR-899-33.35	R-33	472	UX3
RHR-405	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	560	UVX3
RHR-406	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-61	560	UVX3
RHR-414	PSA-3 SN(2)	RHR-203	RHR-854-6.11	R-31	494	UVX3
RHR-416	PSA-1A SN(2)	RHR-203	RHR-854-6.11	R-31	494	UVX3
RHR-417	PSA-3 SN(2)	RHR-203	RHR-854-12.16	R-31	492	UVX3
RHR-42	PSA-3 SNUBBER	RHR-211	RHR-882-5	R-12	434	UVX3
RHR-437	PSA-3 SN(2)	RHR-207	RHR-899-1.4	R-63	563	UVX3
RHR-441	PSA-1/2 SNUBBER	+GC I SN	RHR-899-23.26	R-63	549	UW3
RHR-442	PSA-1/2 SNUBBER	+GC I SN	RHR-899-23.26	R-63	549	UW3
RHR-443	PSA-1/2 SNUBBER	+GC I SN	RHR-899-23.26	R-63	547	UW3
RHR-448	PSA-1/2 SNUBBER	+GC I SN	RHR-899-27.32	R-33	493	UW3
RHR-449	PSA-1/4 SN(2)	+GC I SN	RHR-899-27.32	R-33	493	UW3
RHR-453	PSA-1/4 SNUBBER	+GC I SN	RHR-899-27.32	R-33	483	UW3
RHR-454	PSA-1/2 SNUBBER	+GC I SN	RHR-899-27.32	R-33	484	UW3
RHR-459	PSA-10 SNUBBER	RHR-207	RHR-978-1.4	R-63	551	UVX3
RHR-4605-414	PSA-1/4 SNUBBER	+GC I SN	RHR-4605-4	R-33	483	UW3
RHR-463	PSA-3 SNUBBER	RHR-207	RHR-899-5.7	R-63	566	UVX3
RHR-465	PSA-3 SN(2)	RHR-207	RHR-899-5.7	R-63	566	UVX3
RHR-466	PSA-3 SNUBBER	RHR-207	RHR-899-5.7	R-63	566	UVX3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-472	PSA-1 SNUBBER	RHR-207	RHR-899-36.37	R-63	561	UVX3
RHR-479	PSA-3 SN(2)	RHR-207	RHR-899-8.11	R-53	538	UVX3
RHR-481	PSA-35 SNUBBER	RHR-207	RHR-899-6.11	R-53	537	UVY3
RHR-485	PSA-10 SNUBBER	RHR-207	RHR-899-12.17	R-43	519	UVX3
RHR-492	PSA-3 SN(2)	RHR-207	RHR-899-12.17	R-43	517	UVX3
RHR-494	PSA-10 SNUBBER	RHR-207	RHR-899-18.19	R-43	515	UVX3
RHR-495	PSA-35 SN(2)	RHR-207	RHR-899-18.19	R-43	515	UVY3
RHR-496	PSA-10 SNUBBER	RHR-207	RHR-899-18.19	R-43	515	UVX3
RHR-50	PSA-3 SN(2)	RHR-211	RHR-880-1.6	R-11	434	UVX3
RHR-500	PSA-10 SNUBBER	RHR-207	RHR-899-18.19	R-41	515	UVX3
RHR-502	PSA-35 SNUBBER	RHR-207	RHR-899-20.22	R-41	511	UVY3
RHR-503	PSA-35 SNUBBER	RHR-207	RHR-899-20.22	R-41	511	UVY3
RHR-52	PSA-3 SNUBBER	RHR-207	RHR-978-1.4	R-63	551	UVX3
RHR-548	PSA-3 SN(2)	RHR-207	RHR-898-9.14	R-63	548	UVX3
RHR-551	PSA-3 SN(2)	RHR-207	RHR-898-9.14	R-63	568	UVX3
RHR-556	PSA-3 SNUBBER	RHR-207	RHR-898-9.14	R-73	593	UVX3
RHR-557	PSA-3 SN(2)	RHR-207	RHR-900-1.5	R-63	550	UVX3
RHR-558	PSA-3 SNUBBER	RHR-207	RHR-900-1.5	R-63	550	UVX3
RHR-562	PSA-3 SNUBBER	RHR-207	RHR-900-1.5	R-63	550	UVX3
RHR-563	PSA-1 SN(2)	RHR-207	RHR-900-1.5	R-63	550	UVX3
RHR-564	PSA-3 SNUBBER	RHR-207	RHR-900-1.5	R-63	560	UVX3
RHR-565	PSA-3 SNUBBER	RHR-207	RHR-900-1.5	R-63	560	UVX3
RHR-59	PSA-10 SNUBBER	RHR-205	RHR-875-6.8	R-13	434	UVX3
RHR-599	PSA-3 SNUBBER	RHR-201	RHR-867-13.15	R-71	591	UVX3
RHR-60	PSA-3 SNUBBER	RHR-205	RHR-875-6.8	R-13	434	UVX3
RHR-603	PSA-3 SN(2)	RHR-201	RHR-867-8.12	R-61	562	UVX3
RHR-61	PSA-10 SNUBBER	RHR-205	RHR-875-6.8	R-13	434	UVX3
RHR-67	PSA-3 SNUBBER	RHR-205	RHR-875-1.5	R-13	437	UVX3
RHR-9	PSA-3 SNUBBER	+GC I SN	RHR-883-26.29	R-22	558	UX3
RHR-901N	PSA-3 SN(2)	RHR-207	RHR-976-1.4	R-33	501	UVX3
RHR-902N	PSA-10 SNUBBER	RHR-207	RHR-976-1.4	R-33	478	UVX3
RHR-903N	PSA-3 SNUBBER	RHR-207	RHR-976-7.8	R-33	492	UVX3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-906N	PSA-10 SN(2)	RHR-207	RHR-898-33	R-33	474	UVX3
RHR-908N	PSA-3 SN(2)	RHR-207	RHR-899-12.17	R-43	517	UVX3
RHR-911N	PSA-35 SNUBBER	RHR-207	RHR-899-45	R-43	509	UVY3
RHR-912N	PSA-10 SNUBBER	RHR-207	RHR-976-1.4	R-33	499	UVX3
RHR-913N	PSA-3 SNUBBER	RHR-207	RHR-976-7.8	R-33	492	UVX3
RHR-914N	PSA-10 SNUBBER	RHR-207	RHR-898-33	R-33	474	UVX3
RHR-915N	PSA-10 SNUBBER	RHR-207	RHR-976-1.4	R-33	479	UVX3
RHR-922N	PSA-1 SNUBBER	RHR-207	RHR-898-36.38	R-23	456	UVX3
RHR-940N	PSA-3 SN(2)	RHR-224	RHR-898-34.35	R-33	480	UVX3
RHR-942N	PSA-1 SN(2)	RHR-207	RHR-898-36.38	R-23	454	UVX3
RHR-943	PSA-3 SNUBBER	RHR-207	RHR-898-1.4	R-13	441	UVX3
RHR-944	PSA-3 SNUBBER	RHR-207	RHR-898-1.4	R-13	441	UVX3
RHR-945N	PSA-1 SN(2)	RHR-207	RHR-898-36.38	R-23	458	UVX3
RHR-946N	PSA-3 SNUBBER	RHR-203	RHR-867-20.22	R-31	468	UVX3
RHR-947N	PSA-3 SN(2)	RHR-203	RHR-854-12.16	R-31	473	UVX3
RHR-948N	PSA-3 SN(2)	RHR-203	RHR-854-12.16	R-31	473	UVX3
RHR-952N	PSA-3 SNUBBER	RHR-203	RHR-867-40.44	R-31	486	UVX3
RHR-954N	PSA-1 SN(2)	RHR-216	RHR-867-40.44	R-31	477	UVX3
RHR-959N	PSA-3 SN(2)	RHR-224	RHR-898-34.35	R-33	480	UVX3
RHR-962N	PSA-10 SNUBBER	RHR-207	RHR-898-33	R-33	480	UVX3
RHR-974N	PSA-3 SNUBBER	RHR-203	RHR-867-20.22	R-31	468	UVX3
RHR-977N	PSA-3 SN(2)	RHR-203	RHR-867-40.44	R-31	486	UVX3
RHR-980N	PSA-10 SNUBBER	RHR-207	RHR-898-9.14	R-73	593	UVX3
RHR-983N	PSA-1/4 SNUBBER	+GC I SN	RHR-667-6.12	R-31	491	UW3
RHR-986N	PSA-1 SNUBBER	RHR-203	RHR-667-16.19	R-31	476	UVX3
RHR-993N	PSA-1 SNUBBER	+GC I SN	RHR-883-16.19	R-21	456	UX3
RHR-998N	PSA-3 SNUBBER	RHR-207	RHR-978-1.4	R-63	551	UVX3
RWCU-900N	PSA-3 SN(2)	RWCU-101	RWCU-812-8.13	250	538	UVX3
RWCU-927N	PSA-35 SNUBBER	RWCU-301	RWCU-812-8.13	R-53	538	UY3
RWCU-928N	PSA-10 SNUBBER	RWCU-301	RWCU-812-8.13	R-53	538	UX3
SGT-11	PSA-10 SN(2)	+GC I SN	SGT-624-6.7	R-71	585	UX3
SGT-19	PSA-3 SNUBBER	+GC I SN	SGT-623-4.7	R-71	585	UX3

TABLE 6.2
SNUBBER LIST ACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
SGT-23	PSA-3 SN(2)	+GC I SN	SGT-624-5	R-71	585	UX3
SLC-4453-68	PSA-1/4 SNUBBER	SLC-101	SLC-4453-6	R-53	540	UVW3
SLC-4453-69	PSA-1/4 SNUBBER	SLC-101	SLC-4453-6	R-53	537	UVW3
SW-124	PSA-35 SN(2)	SW-301	SW-250-52.54	R-61	557	UVY3
SW-21	PSA-10 SNUBBER	SW-305	SW-322-1.2	R-63	551	UVX3
SW-29	PSA-10 SN(4)	SW-305	SW-251-30.33	R-43	507	UVX3
SW-914N	PSA-10 SN(2)	SW-307	SW-295-4.6	R-53	541	UVX3
SW-915N	PSA-10 SN(2)	SW-307	SW-295-7.11	R-33	476	UVX3
SW-934N	PSA-10 SN(2)	SW-307	M-200/707	E	436	UVX3
SW-937N	PSA-10 SN(2)	SW-303	M-200/708	E	436	UVX3
SW-987N	PSA-3 SN(2)	SW-301	SW-250-41.50	R-41	511	UX3
VR-3	PSA-1/2 SN(2)	+GC I SN	VR-666-1.3	R-31	474	UW3
VR-900N	PSA-1/2 SNUBBER	+GC I SN	VR-666-1.3	R-41	501	UW3
VR-901N	PSA-1/2 SNUBBER	+GC I SN	VR-666-4.5	R-41	513	UW3
VR-902N	PSA-1/2 SNUBBER	+GC I SN	VR-666-4.5	R-41	511	UW3

TOTAL COUNT = 207

TABLE 6.2
SNUBBER LIST INACCESSIBLE
AS OF 25 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
HPCS-47	PSA-3 SN(2)	HPCS-201	HPCS-629-5.7	97	432	UVX2
HPCS-63	PSA-10 SN(2)	HPCS-101	HPCS-630-29.30	240	542	UVX2
HPCS-910N	PSA-3 SN(2)	HPCS-101	HPCS-630-26.28	240	537	UVX2
HPCS-911N	PSA-10 SNUBBER	HPCS-101	HPCS-630-26.28	240	537	UVX2
HPCS-912N	PSA-3 SNUBBER	HPCS-101	HPCS-630-29.30	270	537	UVX2
HPCS-918N	PSA-10 SNUBBER	HPCS-101	HPCS-630-31.33	240	550	UVX2
HPCS-919N	PSA-10 SNUBBER	HPCS-101	HPCS-630-31.33	240	551	UVX2
LPCS-28	PSA-3 SNUBBER	LPCS-101	LPCS-756-19.21	120	525	UVX2
LPCS-61	PSA-10 SN(2)	LPCS-101	LPCS-756-22.24	120	542	UVX2
LPCS-905N	PSA-3 SNUBBER	LPCS-101	LPCS-756-22.24	120	538	UVX2
LPCS-908N	PSA-10 SNUBBER	LPCS-101	LPCS-756-19.21	120	537	UVX2
LPCS-909N	PSA-3 SN(2)	LPCS-101	LPCS-756-19.21	120	537	UVX2
MD-1285-11B	PSA-1/4 SNUBBER	+QC I SN	MD-1285-1	T-26	492	UW2
MD-1285-14A	PSA-1/2 SNUBBER	+QC I SN	MD-1285-1	T-26	492	UW2
MD-1285-14C	PSA-1/4 SNUBBER	+QC I SN	MD-1285-1	T-26	492	UW2
MD-1285-14D	PSA-1/2 SNUBBER	+QC I SN	MD-1285-1	T-26	492	UW2
MD-1287-11	PSA-1/4 SNUBBER	+QC I SN	MD-1287-1	T-26	492	UW2
MD-1287-15	PSA-1 SNUBBER	+QC I SN	MD-1287-1	T-26	492	UX2
MD-1288-17	PSA-1 SNUBBER	+QC I SN	MD-1288-1	T-26	492	UX2
MD-1288-18	PSA-1/4 SNUBBER	+QC I SN	MD-1288-1	T-26	492	UW2
MD-1290-11B	PSA-1/4 SNUBBER	+QC I SN	MD-1290-1	T-26	492	UW2
MD-1364-12A	PSA-1/4 SNUBBER	+QC I SN	MD-1364-1	T-26	494	UW2
MD-74	PSA-1 SNUBBER	+QC I SN	MD-580-1.2	T-26	493	UX2
MS-1001N	PSA-35 SNUBBER	MS-203	MS-530-4.6	T-26	494	UVY2
MS-1002N	PSA-10 SN(2)	MS-203	MS-530-4.6	T-26	494	UVX2
MS-1003N	PSA-10 SN(2)	MS-203	MS-530-1.3	T-26	494	UVX2
MS-1005N	PSA-35 SNUBBER	MS-204	MS-531-7.10	T-23	490	UVY2
MS-1006N	PSA-3 SN(2)	MS-204	MS-531-4.6	T-26	494	UVX2
MS-1007N	PSA-10 SN(2)	MS-204	MS-531-4.6	T-26	494	UVX2
MS-1010N	PSA-10 SN(2)	MS-204	MS-531-4.6	T-26	494	UVX2
MS-1011S	PSA-1/4 SNUBBER	+QC I SN	MS-531-12	T-23	480	UW2
MS-1012S	PSA-1/4 SNUBBER	+QC I SN	MS-531-12	T-23	480	UW2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
AS OF 26 APR 1985

IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MS-1013S	PSA-1/4 SNUBBER	+GC I SN	MS-528-13	T-23	480	UW2
MS-1014S	PSA-1/4 SNUBBER	+GC I SN	MS-528-13	T-23	480	UW2
MS-1015S	PSA-1/4 SNUBBER	+GC I SN	MS-530-12	T-23	480	UW2
MS-1016S	PSA-1/4 SNUBBER	+GC I SN	MS-529-13	T-23	480	UW2
MS-114	PSA-10 SN(2)	MS-201	MS-528-4.6	T-26	494	UVX2
MS-118	PSA-10 SN(2)	MS-201	MS-528-4.6	T-26	494	UVX2
MS-135	PSA-35 SNUBBER	MS-201	MS-528-1.3	T-36	506	UVY2
MS-1368-12	PSA-1/2 SNUBBER	MS-105	MS-1368-1	13	502	UW2
MS-1368-13	PSA-1/2 SNUBBER	MS-105	MS-1368-1	13	502	UW2
MS-1369-12	PSA-1/2 SNUBBER	MS-105	MS-1369-1	280	502	UW2
MS-1369-13	PSA-1/2 SNUBBER	MS-105	MS-1369-1	280	502	UW2
MS-140	PSA-3 SNUBBER	MS-201	MS-528-7.10	T-26	484	UVX2
MS-145	PSA-10 SNUBBER	MS-202	MS-529-12	T-23	482	UVX2
MS-147	PSA-10 SN(2)	MS-202	MS-529-8.11	T-23	494	UVX2
MS-148	PSA-10 SNUBBER	MS-202	MS-529-8.11	T-23	494	UVX2
MS-151	PSA-3 SN(2)	MS-202	MS-529-8.11	T-23	494	UVX2
MS-162	PSA-10 SN(2)	MS-202	MS-529-4.7	T-26	494	UVX2
MS-167	PSA-10 SN(2)	MS-202	MS-529-4.7	T-26	494	UVX2
MS-174	PSA-35 SNUBBER	MS-202	MS-529-1.3	T-36	506	UVY2
MS-177	PSA-3 SN(2)	MS-202	MS-529-8.11	T-26	489	UVX2
MS-179	PSA-1 SN(2)	MS-202	MS-529-8.11	T-26	489	UVX2
MS-255	PSA-1 SNUBBER	+GC I SN	MS-582-5	R-41	504	UX2
MS-256	PSA-3 SN(2)	+GC I SN	MS-582-5	R-41	504	UX2
MS-2619-11	PSA-1/4 SNUBBER	MS-106	MS-2619-1	315	597	UW2
MS-2619-12	PSA-1/4 SNUBBER	MS-106	MS-2619-1	315	597	UW2
MS-2619-13	PSA-1 SNUBBER	MS-106	MS-2619-1	237	597	UVX2
MS-2619-14	PSA-1/2 SNUBBER	MS-106	MS-2619-1	237	597	UW2
MS-2619-15	PSA-3 SNUBBER	MS-106	MS-2619-1	237	592	UVX2
MS-2619-16	PSA-3 SNUBBER	MS-106	MS-2619-1	237	594	UVX2
MS-2619-21	PSA-1 SNUBBER	MS-106	MS-2619-2	235	579	UVX2
MS-2619-210	PSA-1 SNUBBER	MS-106	MS-2619-2	230	574	UVX2
MS-2619-23	PSA-3 SNUBBER	MS-106	MS-2619-2	224	574	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MS-2619-25	PSA-1 SNUBBER	MS-106	MS-2619-2	222	578	UVX2
MS-2619-310	PSA-1 SNUBBER	MS-106	MS-2619-3	215	580	UVX2
MS-2619-311	PSA-1/2 SNUBBER	MS-106	MS-2619-3	200	580	UW2
MS-2619-312	PSA-1/2 SNUBBER	MS-106	MS-2619-3	205	580	UW2
MS-2619-313	PSA-1/2 SNUBBER	MS-106	MS-2619-3	181	580	UW2
MS-2619-314	PSA-1/4 SNUBBER	MS-106	MS-2619-3	180	580	UW2
MS-2619-316	PSA-1/4 SNUBBER	MS-106	MS-2619-3	158	580	UW2
MS-2619-317	PSA-1/4 SNUBBER	MS-106	MS-2619-3	157	580	UW2
MS-2619-318	PSA-1/4 SNUBBER	MS-106	MS-2619-3	139	580	UW2
MS-2619-319	PSA-1/2 SNUBBER	MS-106	MS-2619-3	140	580	UW2
MS-2619-321	PSA-1/4 SNUBBER	MS-106	MS-2619-3	115	580	UW2
MS-2619-322	PSA-1/2 SNUBBER	MS-106	MS-2619-3	R-74	580	UW2
MS-2619-42A	PSA-1/4 SNUBBER	MS-106	MS-2619-5	60	572	UW2
MS-2619-42B	PSA-1/2 SNUBBER	MS-106	MS-2619-5	61	573	UW2
MS-2619-42C	PSA-1/4 SNUBBER	MS-106	MS-2619-5	60	572	UW2
MS-2619-45	PSA-1/4 SNUBBER	MS-106	MS-2619-4	89	580	UW2
MS-2619-46	PSA-1/2 SNUBBER	MS-106	MS-2619-4	90	580	UW2
MS-27	PSA-10 SN(2)	MS-203	MS-530-7.10	T-23	494	UVX2
MS-31	PSA-3 SN(2)	MS-203	MS-530-7.10	T-26	494	UVX2
MS-38	PSA-10 SN(2)	MS-203	MS-530-4.6	T-26	494	UVX2
MS-4448-12	PSA-1/4 SNUBBER	+GC I SN	MS-4448-1	R-42	503	UW2
MS-4448-411	PSA-1/4 SNUBBER	+GC I SN	MS-4448-4	R-41	503	UVW2
MS-4448-413	PSA-1/4 SNUBBER	+GC I SN	MS-4448-4	R-41	503	UVW2
MS-4448-46	PSA-1/4 SNUBBER	+GC I SN	MS-4448-4	R-41	502	UVW2
MS-45	PSA-35 SNUBBER	MS-203	MS-530-1.3	T-36	506	UVY2
MS-48	PSA-3 SNUBBER	MS-203	MS-530-7.10	T-26	489	UVX2
MS-53	PSA-35 SN(2)	MS-204	MS-531-7.10	T-23	494	UVY2
MS-54	PSA-10 SNUBBER	MS-204	MS-531-7.10	T-23	494	UVX2
MS-56	PSA-10 SN(2)	MS-204	MS-531-7.10	T-26	494	UVX2
MS-57	PSA-3 SN(2)	MS-204	MS-531-7.10	T-26	494	UVX2
MS-72	PSA-35 SNUBBER	MS-204	MS-531-1.3	T-36	506	UVY2
MS-86	PSA-3 SNUBBER	MS-204	MS-531-7.10	T-26	489	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MS-906N	PSA-3 SN(2)	MS-204	MS-531-4.6	T-26	494	UVX2
MS-908N	PSA-35 SN(2)	MS-204	MS-531-4.6	T-26	494	UVY2
MS-91	PSA-3 SN(2)	MS-201	MS-528-7.10	T-23	494	UVX2
MS-954N	PSA-3 SNUBBER	+QC I SN	MS-582-5	R-42	504	UX2
MS-96	PSA-10 SN(2)	MS-201	MS-528-7.10	T-23	494	UVX2
MS-993N	PSA-10 SN(2)	MS-201	MS-528-4.6	T-26	494	UVX2
MS-996N	PSA-10 SN(2)	MS-202	MS-529-4.7	T-26	494	UVX2
MS-997N	PSA-10 SN(2)	MS-202	MS-529-4.7	T-26	494	UVX2
MS-998N	PSA-10 SN(2)	MS-202	MS-529-4.7	T-26	494	UVX2
MS-999N	PSA-10 SNUBBER	MS-203	MS-530-7.10	T-26	494	UVX2
MS-SA-1	PSA-100 SNUBBER	MS-101	BC/G 211A	10	501	UVY2
MS-SA-10	PSA-35 SNUBBER	MS-101	BC/G 211A	70	543	UVY2
MS-SA-2	PSA-100 SNUBBER	MS-101	BC/G 211A	10	502	UVY2
MS-SA-3	PSA-35 SNUBBER	MS-101	BC/G 211A	17	539	UVY2
MS-SA-4	PSA-35 SNUBBER	MS-101	BC/G 211A	17	534	UVY2
MS-SA-5	PSA-35 SNUBBER	MS-101	BC/G 211A	65	543	UVY2
MS-SA-6	PSA-35 SNUBBER	MS-101	BC/G 211A	72	555	UVY2
MS-SA-7	PSA-35 SNUBBER	MS-101	BC/G 211A	72	550	UVY2
MS-SA-9	PSA-35 SNUBBER	MS-101	BC/G 211A	70	543	UVY2
MS-SB-1	PSA-100 SNUBBER	MS-102	BC/G 212	23	501	UVY2
MS-SB-10	PSA-35 SNUBBER	MS-102	BC/G 212	48	543	UVY2
MS-SB-2	PSA-100 SNUBBER	MS-102	BC/G 212	23	501	UVY2
MS-SB-3	PSA-35 SNUBBER	MS-102	BC/G 212	28	538	UVY2
MS-SB-4	PSA-35 SNUBBER	MS-102	BC/G 212	26	534	UVY2
MS-SB-5	PSA-35 SNUBBER	MS-102	BC/G 212	90	541	UVY2
MS-SB-6	PSA-35 SNUBBER	MS-102	BC/G 212	108	556	UVY2
MS-SB-7	PSA-35 SNUBBER	MS-102	BC/G 212	108	556	UVY2
MS-SB-8	PSA-35 SNUBBER	MS-102	BC/G 212	85	543	UVY2
MS-SB-9	PSA-35 SNUBBER	MS-102	BC/G 212	45	543	UVY2
MS-SC-1	PSA-100 SNUBBER	MS-103	BC/G 213	337	506	UVY2
MS-SC-10	PSA-35 SNUBBER	MS-103	BC/G 213	300	543	UVY2
MS-SC-2	PSA-100 SNUBBER	MS-103	BC/G 213	337	506	UVY2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MS-SC-3	PSA-35 SNUBBER	MS-103	BC/G 213	334	539	UVY2
MS-SC-4	PSA-35 SNUBBER	MS-103	BC/G 213	342	536	UVY2
MS-SC-5	PSA-35 SNUBBER	MS-103	BC/G 213	270	538	UVY2
MS-SC-6	PSA-35 SNUBBER	MS-103	BC/G 213	268	556	UVY2
MS-SC-7	PSA-35 SNUBBER	MS-103	BC/G 213	236	556	UVY2
MS-SC-8	PSA-35 SNUBBER	MS-103	BC/G 213	275	543	UVY2
MS-SC-9	PSA-35 SNUBBER	MS-103	BC/G 213	320	543	UVY2
MS-SD-1	PSA-100 SNUBBER	MS-104	BC/G 214	359	506	UVY2
MS-SD-10	PSA-35 SNUBBER	MS-104	BC/G 214	R-54	543	UVY2
MS-SD-2	PSA-100 SNUBBER	MS-104	BC/G 214	359	506	UVY2
MS-SD-3	PSA-35 SNUBBER	MS-104	BC/G 214	346	543	UVY2
MS-SD-4	PSA-35 SNUBBER	MS-104	BC/G 214	346	530	UVY2
MS-SD-5	PSA-35 SNUBBER	MS-104	BC/G 214	268	543	UVY2
MS-SD-6	PSA-35 SNUBBER	MS-104	BC/G 214	288	556	UVY2
MS-SD-7	PSA-35 SNUBBER	MS-104	BC/G 214	288	556	UVY2
MS-SD-9	PSA-35 SNUBBER	MS-104	BC/G 214	R-54	543	UVY2
MSLC-2821-12	PSA-1/4 SNUB	+QC I SN	MSLC-2821-1	R-42	503	UVW2
MSLC-2821-22	PSA-1 SNUBBER	+QC I SN	MSLC-2821-2	R-42	503	UVX2
MSLC-2822-12	PSA-1/2 SNUBBER	+QC I SN	MSLC-2822-1	R-41	503	UVW2
MSRV-1A-1	PSA-10 SNUBBER	MS-301	MS-547-1	R-65	546	UX2
MSRV-1A-2	PSA-10 SNUBBER	MS-301	MS-547-1	R-55	536	UX2
MSRV-1A-3	PSA-10 SNUBBER	MS-301	MS-547-1	R-65	546	UX2
MSRV-1A-4	PSA-10 SNUBBER	MS-301	MS-547-1	R-55	539	UX2
MSRV-1A-5	PSA-10 SNUBBER	MS-301	MS-547-2	R-55	529	UX2
MSRV-1A-6	PSA-10 SNUBBER	MS-301	MS-547-2	R-55	529	UX2
MSRV-1B-1	PSA-10 SNUBBER	MS-305	MS-538-1	R-55	543	UX2
MSRV-1B-2	PSA-10 SNUBBER	MS-305	MS-538-1	R-55	546	UX2
MSRV-1B-3	PSA-10 SNUBBER	MS-305	MS-538-1	R-55	544	UX2
MSRV-1B-4	PSA-10 SNUBBER	MS-305	MS-538-2.3	R-45	520	UX2
MSRV-1B-5	PSA-10 SNUBBER	MS-305	MS-538-2.3	R-55	522	UX2
MSRV-1C-1	PSA-10 SNUBBER	MS-310	MS-555-2	R-54	544	UX2
MSRV-1C-2	PSA-35 SNUBBER	MS-310	MS-555-1	R-54	548	UY2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MSRV-1C-3	PSA-35 SNUBBER	MS-310	MS-555-2	R-54	544	UY2
MSRV-1C-4	PSA-10 SNUBBER	MS-310	MS-555-3	R-44	521	UX2
MSRV-1C-5	PSA-10 SNUBBER	MS-310	MS-555-3	R-44	522	UX2
MSRV-1C-7	PSA-10 SNUBBER	MS-310	MS-555-2	R-54	535	UX2
MSRV-1D-1	PSA-10 SNUBBER	MS-315	MS-546-1	R-54	547	UX2
MSRV-1D-2	PSA-10 SNUBBER	MS-315	MS-546-2	R-54	537	UX2
MSRV-1D-3	PSA-10 SNUBBER	MS-315	MS-546-2	R-54	546	UX2
MSRV-1D-4	PSA-10 SNUBBER	MS-315	MS-546-2	R-54	538	UX2
MSRV-1D-5	PSA-10 SNUBBER	MS-315	MS-546-4	R-44	513	UX2
MSRV-1D-6	PSA-10 SNUBBER	MS-315	MS-546-4	R-44	514	UX2
MSRV-1D-7	PSA-10 SN(2)	MS-315	MS-546-4	R-44	507	UX2
MSRV-2A-1	PSA-10 SNUBBER	MS-302	MS-548-1.2	R-65	545	UX2
MSRV-2A-2	PSA-10 SNUBBER	MS-302	MS-548-1.2	R-65	548	UX2
MSRV-2A-3	PSA-35 SNUBBER	MS-302	MS-548-1.2	R-65	545	UY2
MSRV-2A-4	PSA-10 SNUBBER	MS-302	MS-548-3.4	R-45	520	UX2
MSRV-2A-5	PSA-10 SNUBBER	MS-302	MS-548-3.4	R-55	522	UX2
MSRV-2B-1	PSA-10 SNUBBER	MS-306	MS-539-1	R-55	544	UX2
MSRV-2B-2	PSA-10 SNUBBER	MS-306	MS-539-1	R-55	534	UX2
MSRV-2B-3	PSA-35 SNUBBER	MS-306	MS-539-1	R-55	546	UY2
MSRV-2B-4	PSA-10 SNUBBER	MS-306	MS-539-1	R-55	535	UX2
MSRV-2B-5	PSA-10 SNUBBER	MS-306	MS-539-3	R-55	525	UX2
MSRV-2B-6	PSA-10 SNUBBER	MS-306	MS-539-3	R-55	525	UX2
MSRV-2B-7	PSA-10 SNUBBER	MS-306	MS-539-3	R-57	525	UX2
MSRV-2B-8	PSA-10 SNUBBER	MS-306	MS-539-3	R-57	525	UX2
MSRV-2C-1	PSA-10 SNUBBER	MS-311	MS-554-1	R-54	538	UX2
MSRV-2C-2	PSA-10 SNUBBER	MS-311	MS-554-1	R-54	546	UX2
MSRV-2C-3	PSA-10 SNUBBER	MS-311	MS-554-1	R-54	537	UX2
MSRV-2C-4	PSA-10 SNUBBER	MS-311	MS-554-3	R-56	525	UX2
MSRV-2C-5	PSA-10 SNUBBER	MS-311	MS-554-3	R-56	525	UX2
MSRV-2C-6	PSA-10 SNUBBER	MS-311	MS-554-3	R-56	525	UX2
MSRV-2C-7	PSA-10 SNUBBER	MS-311	MS-554-4	R-56	522	UX2
MSRV-2C-8	PSA-10 SNUBBER	MS-311	MS-554-2	R-54	535	UX2

TABLE 6.2
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MSRV-2C-9	PSA-10 SNUBBER	MS-311	MS-554-2	R-54	530	UX2
MSRV-2D-1	PSA-10 SNUBBER	MS-316	MS-545-2	R-54	544	UX2
MSRV-2D-2	PSA-10 SNUBBER	MS-316	MS-545-1	R-54	546	UX2
MSRV-2D-3	PSA-10 SNUBBER	MS-316	MS-545-2	R-54	545	UX2
MSRV-2D-4	PSA-10 SNUBBER	MS-316	MS-545-3	R-44	522	UX2
MSRV-2D-5	PSA-10 SNUBBER	MS-316	MS-545-3	R-44	522	UX2
MSRV-3A-1	PSA-10 SNUBBER	MS-303	MS-549-1	R-55	545	UX2
MSRV-3A-2	PSA-10 SNUBBER	MS-303	MS-549-1	R-55	546	UX2
MSRV-3A-3	PSA-10 SNUBBER	MS-303	MS-549-1	R-55	545	UX2
MSRV-3A-4	PSA-10 SNUBBER	MS-303	MS-549-2.3	R-55	527	UX2
MSRV-3A-5	PSA-10 SNUBBER	MS-303	MS-549-2.3	R-55	527	UX2
MSRV-3A-6	PSA-10 SNUBBER	MS-303	MS-549-4.5	R-45	520	UX2
MSRV-3B-1	PSA-10 SNUBBER	MS-307	MS-540-1	R-55	538	UX2
MSRV-3B-2	PSA-10 SNUBBER	MS-307	MS-540-1	R-55	546	UX2
MSRV-3B-3	PSA-10 SNUBBER	MS-307	MS-540-1	R-55	539	UX2
MSRV-3B-4	PSA-10 SNUBBER	MS-307	MS-540-2.4	R-57	525	UX2
MSRV-3B-5	PSA-10 SNUBBER	MS-307	MS-540-2.4	R-55	525	UX2
MSRV-3B-6	PSA-10 SNUBBER	MS-307	MS-540-2.4	R-57	525	UX2
MSRV-3B-7	PSA-10 SNUBBER	MS-307	MS-540-5.6	R-57	525	UX2
MSRV-3C-1	PSA-35 SNUBBER	MS-312	MS-553-1	R-54	544	UY2
MSRV-3C-10	PSA-10 SN(2)	MS-312	MS-553-5.6	R-46	510	UX2
MSRV-3C-2	PSA-10 SNUBBER	MS-312	MS-553-1	R-54	546	UX2
MSRV-3C-3	PSA-10 SNUBBER	MS-312	MS-553-1	R-54	544	UX2
MSRV-3C-4	PSA-10 SNUBBER	MS-312	MS-553-3.4	R-56	527	UX2
MSRV-3C-5	PSA-10 SNUBBER	MS-312	MS-553-3.4	R-56	525	UX2
MSRV-3C-6	PSA-10 SNUBBER	MS-312	MS-553-3.4	R-56	527	UX2
MSRV-3C-7	PSA-10 SNUBBER	MS-312	MS-553-3.4	R-56	527	UX2
MSRV-3C-8	PSA-10 SNUBBER	MS-312	MS-553-3.4	R-54	527	UX2
MSRV-3D-1	PSA-10 SNUBBER	MS-317	MS-544-1	R-54	544	UX2
MSRV-3D-2	PSA-10 SNUBBER	MS-317	MS-544-1	R-54	545	UX2
MSRV-3D-3	PSA-10 SNUBBER	MS-317	MS-544-2	R-54	538	UX2
MSRV-3D-4	PSA-10 SNUBBER	MS-317	MS-544-1	R-54	546	UX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MSRV-3D-5	PSA-10 SNUBBER	MS-317	MS-544-2	R-54	541	UX2
MSRV-3D-6	PSA-10 SNUBBER	MS-317	MS-544-4.5	R-44	513	UX2
MSRV-3D-7	PSA-10 SNUBBER	MS-317	MS-544-4.5	R-44	514	UX2
MSRV-4A-1	PSA-10 SNUBBER	MS-304	MS-550-1.2	R-65	544	UX2
MSRV-4A-10	PSA-10 SNUBBER	MS-304	MS-550-3.4	R-55	525	UX2
MSRV-4A-2	PSA-10 SNUBBER	MS-304	MS-550-1.2	R-65	546	UX2
MSRV-4A-3	PSA-10 SNUBBER	MS-304	MS-550-1.2	R-65	544	UX2
MSRV-4A-4	PSA-10 SNUBBER	MS-304	MS-550-3.4	R-55	538	UX2
MSRV-4A-5	PSA-10 SNUBBER	MS-304	MS-550-3.4	R-55	536	UX2
MSRV-4A-6	PSA-10 SNUBBER	MS-304	MS-550-5.6	R-47	514	UX2
MSRV-4A-7	PSA-10 SNUBBER	MS-304	MS-550-5.6	R-47	513	UX2
MSRV-4A-8	PSA-10 SNUBBER	MS-304	MS-550-3.4	R-55	525	UX2
MSRV-4A-9	PSA-10 SNUBBER	MS-304	MS-550-3.4	R-55	523	UX2
MSRV-4B-10	PSA-35 SNUBBER	MS-308	MS-541-3.4	R-57	525	UY2
MSRV-4B-2	PSA-10 SNUBBER	MS-308	MS-541-1.2	R-55	524	UX2
MSRV-4B-3	PSA-10 SNUBBER	MS-308	MS-541-1.2	R-55	546	UX2
MSRV-4B-4	PSA-10 SNUBBER	MS-308	MS-541-1.2	R-55	542	UX2
MSRV-4B-5	PSA-35 SNUBBER	MS-308	MS-541-3.4	R-57	528	UY2
MSRV-4B-6	PSA-10 SNUBBER	MS-308	MS-541-3.4	R-57	529	UX2
MSRV-4B-7	PSA-10 SNUBBER	MS-308	MS-541-3.4	R-57	528	UX2
MSRV-4B-8	PSA-10 SNUBBER	MS-308	MS-541-5	R-57	523	UX2
MSRV-4B-9	PSA-10 SNUBBER	MS-308	MS-541-5	R-57	523	UX2
MSRV-4C-1	PSA-10 SNUBBER	MS-313	MS-552-1.2	R-54	538	UX2
MSRV-4C-2	PSA-10 SNUBBER	MS-313	MS-552-1.2	R-54	546	UX2
MSRV-4C-3	PSA-10 SNUBBER	MS-313	MS-552-1.2	R-54	538	UX2
MSRV-4C-4	PSA-10 SNUBBER	MS-313	MS-552-3.4	R-56	528	UX2
MSRV-4C-5	PSA-10 SNUBBER	MS-313	MS-552-3.4	R-56	528	UX2
MSRV-4C-6	PSA-10 SNUBBER	MS-313	MS-552-3.4	R-56	528	UX2
MSRV-4C-7	PSA-10 SNUBBER	MS-313	MS-552-3.4	R-56	528	UX2
MSRV-4C-8	PSA-35 SNUBBER	MS-313	MS-552-3.4	R-56	528	UY2
MSRV-4C-9	PSA-3 SN(2)	MS-313	MS-552-5.6	R-46	505	UX2
MSRV-4D-1	PSA-10 SNUBBER	MS-319	MS-543-1	R-54	544	UX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
MSRV-4D-2	PSA-10 SNUBBER	MS-318	MS-543-1	R-54	546	UX2
MSRV-4D-3	PSA-10 SNUBBER	MS-318	MS-543-1	R-54	545	UX2
MSRV-4D-4	PSA-10 SNUBBER	MS-318	MS-543-3	R-44	513	UX2
MSRV-4D-5	PSA-10 SNUBBER	MS-318	MS-543-3	R-44	512	UX2
MSRV-4D-6	PSA-10 SNUBBER	MS-318	MS-543-2	R-54	530	UX2
MSRV-5B-1	PSA-3 SN(2)	MS-309	MS-542-1.2	R-57	547	UX2
MSRV-5B-2	PSA-35 SNUBBER	MS-309	MS-542-1.2	R-55	548	UY2
MSRV-5B-3	PSA-10 SNUBBER	MS-309	MS-542-1.2	R-57	546	UX2
MSRV-5B-4	PSA-10 SNUBBER	MS-309	MS-542-1.2	R-57	542	UX2
MSRV-5B-5	PSA-10 SNUBBER	MS-309	MS-542-1.2	R-57	542	UX2
MSRV-5B-6	PSA-10 SNUBBER	MS-309	MS-542-3.4	R-57	530	UX2
MSRV-5B-7	PSA-10 SNUBBER	MS-309	MS-542-5	R-57	525	UX2
MSRV-5B-8	PSA-10 SNUBBER	MS-309	MS-542-5	R-57	525	UX2
MSRV-5B-9	PSA-10 SNUBBER	MS-309	MS-542-6	R-47	508	UX2
MSRV-5C-1	PSA-10 SNUBBER	MS-314	MS-551-1	R-56	545	UX2
MSRV-5C-2	PSA-10 SNUBBER	MS-314	MS-551-1	R-56	546	UX2
MSRV-5C-3	PSA-35 SNUBBER	MS-314	MS-551-1	R-54	546	UY2
MSRV-5C-4	PSA-35 SNUBBER	MS-314	MS-551-2	R-56	532	UY2
MSRV-5C-5	PSA-10 SNUBBER	MS-314	MS-551-3	R-56	529	UX2
MSRV-5C-6	PSA-10 SNUBBER	MS-314	MS-551-2	R-56	532	UX2
MSRV-5C-7	PSA-10 SNUBBER	MS-314	MS-551-3	R-56	529	UX2
MSRV-5C-8	PSA-35 SNUBBER	MS-314	MS-551-3	R-56	529	UY2
MSRV-5C-9	PSA-10 SNUBBER	MS-314	MS-551-4.5	R-46	505	UX2
RCC-909N	PSA-3 SNUBBER	RCC-301	RCC-831-11.15	R-36	500	UVX2
RCIC-126	PSA-1 SN(2)	RCIC-102	RCIC-659-26	165	569	UVX2
RCIC-128	PSA-3 SNUBBER	RCIC-102	RCIC-659-27.28	170	594	UVX2
RCIC-1C-1	PSA-1 SNUBBER	RCIC-101	RCIC-662-2.4	114	528	UVX2
RCIC-1C-10	PSA-3 SNUBBER	RCIC-101	RCIC-663-1.2	120	551	UVX2
RCIC-1C-12	PSA-3 SNUBBER	RCIC-101	RCIC-662-1	114	550	UVX2
RCIC-1C-13	PSA-3 SN(2)	RCIC-101	RCIC-662-2.4	61	531	UVX2
RCIC-1C-14	PSA-1 SNUBBER	RCIC-101	RCIC-662-2.4	35	514	UVX2
RCIC-1C-15	PSA-3 SN(2)	RCIC-101	RCIC-662-1	114	540	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RCIC-1C-16	PSA-3 SNUBBER	RCIC-101	RCIC-662-2.4	114	537	UVX2
RCIC-1C-2	PSA-3 SN(2)	RCIC-101	RCIC-662-2.4	114	525	UVX2
RCIC-1C-3	PSA-1 SNUBBER	RCIC-101	RCIC-662-2.4	114	528	UVX2
RCIC-1C-4	PSA-1 SNUBBER	RCIC-101	RCIC-662-2.4	90	531	UVX2
RCIC-1C-5	PSA-10 SNUBBER	RCIC-101	RCIC-662-2.4	63	531	UVX2
RCIC-1C-6	PSA-3 SN(2)	RCIC-101	RCIC-662-2.4	90	531	UVX2
RCIC-1C-7	PSA-3 SNUBBER	RCIC-101	RCIC-662-2.4	114	537	UVX2
RCIC-1C-8	PSA-3 SNUBBER	RCIC-101	RCIC-662-2.4	90	531	UVX2
RCIC-1C-9	PSA-10 SNUBBER	RCIC-101	RCIC-663-1.2	120	551	UVX2
RCIC-44	PSA-1/4 SNUBBER	RCIC-201	RCIC-662-6	R-32	471	UW2
RCIC-931N	PSA-3 SNUBBER	RCIC-102	RCIC-659-27.28	170	590	UVX2
RCIC-932N	PSA-1 SN(2)	RCIC-102	RCIC-659-27.28	170	593	UVX2
RCIC-933N	PSA-3 SNUBBER	RCIC-102	RCIC-659-27.28	170	593	UVX2
RCIC-934N	PSA-3 SNUBBER	RCIC-102	RCIC-659-27.28	170	591	UVX2
RCIC-935N	PSA-1 SNUBBER	RCIC-102	RCIC-659-27.28	170	591	UVX2
RCIC-936N	PSA-1 SN(2)	RCIC-102	RCIC-659-27.28	170	591	UVX2
RCIC-937N	PSA-3 SNUBBER	RCIC-102	RCIC-659-26	165	580	UVX2
RCIC-938N	PSA-3 SNUBBER	RCIC-102	RCIC-659-26	165	569	UVX2
RCIC-939N	PSA-3 SNUBBER	RCIC-102	RCIC-659-26	165	570	UVX2
RCIC-948N	PSA-3 SN(2)	RCIC-102	RCIC-659-24	165	553	UVX2
RCIC-968S	PSA-1 SNUBBER	+GC I SN	RCIC-663-1.2	R-67	554	UX2
RCIC-969S	PSA-1/2 SNUBBER	+GC I SN	RCIC-663-1.2	R-67	554	UW2
RCIC-970S	PSA-1/2 SNUBBER	+GC I SN	RCIC-663-1.2	R-67	554	UW2
RCIC-974S	PSA-1 SNUBBER	+GC I SN	RCIC-663-1.2	R-67	554	UX2
RCIC-975S	PSA-1/4 SNUBBER	+GC I SN	RCIC-663-1.2	R-67	554	UW2
RFW-146	PSA-10 SN(2)	RFW-101	RFW-418-4	R-45	519	UVX2
RFW-147	PSA-10 SNUBBER	RFW-101	RFW-418-4	R-45	522	UVY2
RFW-148	PSA-35 SNUBBER	RFW-101	RFW-418-4	R-55	524	UVY2
RFW-150	PSA-10 SN(2)	RFW-101	RFW-418-7.8	R-65	543	UVX2
RFW-151	PSA-35 SNUBBER	RFW-101	RFW-418-7.8	R-67	543	UVY2
RFW-153	PSA-10 SNUBBER	RFW-101	RFW-418-7.8	R-67	543	UVX2
RFW-154	PSA-10 SN(2)	RFW-101	RFW-418-7.8	R-65	543	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RFW-155	PSA-10 SN(2)	RFW-101	RFW-418-7.8	R-65	543	UVX2
RFW-160	PSA-10 SN(2)	RFW-101	RFW-418-7.8	R-65	543	UVX2
RFW-162	PSA-10 SN(2)	RFW-102	RFW-419-4	R-44	516	UVX2
RFW-163	PSA-100 SNUBBER	RFW-102	RFW-419-4	R-44	522	UVY2
RFW-164	PSA-35 SNUBBER	RFW-102	RFW-419-4	R-54	523	UVY2
RFW-166	PSA-10 SN(2)	RFW-102	RFW-419-5.7	R-64	543	UVX2
RFW-167	PSA-10 SN(2)	RFW-102	RFW-419-5.7	R-64	543	UVX2
RFW-168	PSA-10 SN(2)	RFW-102	RFW-419-5.7	R-64	543	UVX2
RFW-170	PSA-10 SN(2)	RFW-102	RFW-419-5.7	R-64	543	UVX2
RFW-171	PSA-10 SNUBBER	RFW-102	RFW-419-8.9	R-64	545	UVX2
RFW-172	PSA-35 SNUBBER	RFW-102	RFW-419-8.9	R-64	543	UVY2
RFW-180	PSA-1 SNUBBER	RFW-103	RFW-438-3	R-42	514	UVX2
RFW-915N	PSA-10 SNUBBER	RFW-102	RFW-419-8.9	R-64	545	UVX2
RFW-929N	PSA-10 SNUBBER	RFW-101	RFW-418-13	R-67	545	UVX2
RFW-942N	PSA-1 SN(2)	RFW-103	RFW-438-1.2	R-42	514	UVX2
RHR-1022N	PSA-35 SN(2)	RHR-201	RHR-851-13	R-42	512	UVY2
RHR-2264-11	PSA-1/4 SNUBBER	+GC I SN	RHR-2264-1	R-44	509	UW2
RHR-2264-21	PSA-1/4 SNUBBER	+GC I SN	RHR-2264-2	R-44	509	UW2
RHR-2264-22	PSA-1 SNUBBER	+GC I SN	RHR-2264-2	R-46	509	UX2
RHR-244	PSA-35 SNUBBER	RHR-201	RHR-851-13	R-42	512	UVY2
RHR-260	PSA-10 SNUBBER	RHR-201	RHR-851-13	R-42	512	UVX2
RHR-272	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-64	566	UVX2
RHR-273	PSA-3 SNUBBER	RHR-203	RHR-854-1.5	R-64	566	UVX2
RHR-281	PSA-10 SNUBBER	RHR-103	RHR-897-20.24	354	541	UVX2
RHR-282	PSA-35 SNUBBER	RHR-103	RHR-897-20.24	354	561	UVY2
RHR-286	PSA-10 SN(2)	RHR-103	RHR-897-20.24	354	545	UVX2
RHR-287	PSA-35 SNUBBER	RHR-103	RHR-897-20.24	320	563	UVY2
RHR-380	PSA-10 SNUBBER	RHR-101	RHR-851-21.24	4	524	UVX2
RHR-381	PSA-10 SN(2)	RHR-101	RHR-851-21.24	4	550	UVX2
RHR-382	PSA-35 SNUBBER	RHR-101	RHR-851-21.24	4	558	UVY2
RHR-383	PSA-35 SNUBBER	RHR-101	RHR-851-21.24	15	562	UVY2
RHR-387	PSA-10 SNUBBER	RHR-102	RHR-859-39.44	135	541	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-388	PSA-10 SN(2)	RHR-102	RHR-899-39.44	135	557	UVX2
RHR-389	PSA-35 SNUBBER	RHR-102	RHR-899-39.44	135	561	UVY2
RHR-390	PSA-35 SNUBBER	RHR-102	RHR-899-39.44	135	563	UVY2
RHR-87	PSA-10 SNUBBER	RHR-103	RHR-897-19	354	525	UVX2
RHR-907N	PSA-35 SNUBBER	RHR-102	RHR-899-38	135	525	UVY2
RHR-941N	PSA-10 SNUBBER	RHR-101	RHR-851-20	4	527	UVX2
RHR-SA-30	PSA-10 SN(2)	RRC-106	RRC-567-1	R-45	509	UVX2
RHR-SA-31	PSA-10 SNUBBER	RRC-106	RRC-567-1	R-45	509	UVX2
RHR-SA-32	PSA-10 SN(2)	RHR-105	RHR-851-17	85	510	UVX2
RHR-SA-33	PSA-10 SNUBBER	RHR-105	RHR-851-17	85	509	UVX2
RHR-SA-34	PSA-35 SNUBBER	RHR-105	RHR-851-17	80	509	UVY2
RHR-SA-35	PSA-10 SNUBBER	RHR-105	RHR-851-15.16	100	510	UVX2
RHR-SA-36	PSA-35 SNUBBER	RHR-105	RHR-851-15.16	100	509	UVY2
RHR-SA-37	PSA-35 SNUBBER	RHR-105	RHR-851-15.16	100	509	UVY2
RHR-SA-38	PSA-10 SNUBBER	RHR-105	RHR-851-15.16	100	510	UVX2
RHR-SA-39	PSA-10 SN(2)	RHR-105	RHR-851-15.16	85	509	UVX2
RHR-SA-40	PSA-10 SNUBBER	RHR-105	RHR-851-15.16	90	509	UVX2
RHR-SA-50	PSA-35 SNUBBER	RRC-105	RRC-565-1	R-46	512	UVY2
RHR-SA-51	PSA-35 SNUBBER	RRC-105	RRC-565-1	R-46	510	UVY2
RHR-SA-52	PSA-10 SNUBBER	RRC-105	RRC-565-1	R-46	510	UVX2
RHR-SA-53	PSA-10 SNUBBER	RHR-104	RHR-874-1.3	225	510	UVX2
RHR-SA-54	PSA-35 SNUBBER	RHR-104	RHR-874-1.3	225	510	UVY2
RHR-SA-55	PSA-100 SNUBBER	RHR-104	RHR-874-1.3	225	511	UVY2
RHR-SA-56	PSA-10 SNUBBER	RHR-104	RHR-874-1.3	225	514	UVX2
RHR-SA-57	PSA-35 SNUBBER	RHR-104	RHR-874-1.3	225	510	UVY2
RHR-SA-58	PSA-35 SN(2)	RHR-104	RHR-874-1.3	225	510	UVY2
RHR-SA-59	PSA-35 SNUBBER	RHR-104	RHR-874-1.3	225	511	UVY2
RHR-SB-30	PSA-10 SNUBBER	RRC-107	RRC-568-1	R-46	509	UVX2
RHR-SB-31	PSA-10 SNUBBER	RRC-107	RRC-568-1	R-46	509	UVX2
RHR-SB-32	PSA-10 SNUBBER	RHR-106	RHR-899-48	275	509	UVX2
RHR-SB-33	PSA-10 SNUBBER	RHR-106	RHR-899-46	275	504	UVX2
RHR-SB-34	PSA-10 SN(2)	RHR-106	RHR-899-46.47	280	513	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RHR-SB-35	PSA-10 SNUBBER	RHR-106	RHR-899-46.47	280	510	UVX2
RHR-SB-36	PSA-10 SNUBBER	RHR-106	RHR-899-46.47	280	509	UVX2
RHR-SB-37	PSA-10 SNUBBER	RHR-106	RHR-899-46.47	280	509	UVX2
RHR-SB-38	PSA-10 SNUBBER	RHR-106	RHR-899-46.47	280	510	UVX2
RHR-SB-39	PSA-3 SN(2)	RHR-106	RHR-899-46.47	265	509	UVX2
RHR-SB-40	PSA-10 SNUBBER	RHR-106	RHR-899-46.47	265	509	UVX2
RRC-1549-62	PSA-1/4 SNUBBER	+GC I SN	RRC-1549-6	R-44	510	UW2
RRC-1552-12	PSA-1/4 SNUBBER	+GC I SN	RRC-1552-1	R-47	509	UW2
RRC-1946-31	PSA-1/4 SNUBBER	+GC I SN	RRC-1946-3	R-47	501	UW2
RRC-1946-32	PSA-1/4 SNUBBER	+GC I SN	RRC-1946-3	R-47	501	UW2
RRC-1C-1	PSA-1 SN(2)	RRC-104	RRC-564-1.3	15	514	UVX2
RRC-1C-10	PSA-1 SNUBBER	RRC-109	RRC-569-1.2	342	500	UVX2
RRC-1C-13	PSA-1 SNUBBER	RRC-108	RRC-566-1	R-37	500	UVX2
RRC-1C-14	PSA-1 SN(2)	RRC-108	RRC-566-1	R-37	500	UVX2
RRC-1C-15	PSA-1 SNUBBER	RRC-108	RRC-566-1	R-37	500	UVX2
RRC-1C-2	PSA-1 SNUBBER	RRC-104	RRC-564-1.3	15	514	UVX2
RRC-1C-3	PSA-1 SNUBBER	RRC-104	RRC-564-1.3	15	517	UVX2
RRC-1C-4	PSA-1/2 SN(2)	RRC-104	RRC-564-1.3	15	519	UW2
RRC-1C-9	PSA-1 SNUBBER	RRC-109	RRC-569-1.2	5	500	UVX2
RRC-1C-900N	PSA-1 SN(2)	RRC-104	RRC-564-1.3	R-45	514	UVX2
RRC-4470-31	PSA-1 SNUBBER	RRC-111	RRC-4470-3	324	500	UVX2
RRC-SA-1	PSA-35 SNUBBER	RRC-101	BC/G-215	180	510	UVY2
RRC-SA-11	PSA-35 SNUBBER	RRC-101	BC/G-216	120	528	UVY2
RRC-SA-12	PSA-35 SNUBBER	RRC-101	BC/G-216	45	528	UVY2
RRC-SA-13	PSA-35 SNUBBER	RRC-101	BC/G-216	110	528	UVY2
RRC-SA-14	PSA-35 SNUBBER	RRC-101	BC/G-216	40	528	UVY2
RRC-SA-15	PSA-35 SNUBBER	RRC-101	BC/G-216	90	506	UVY2
RRC-SA-16	PSA-35 SNUBBER	RRC-101	BC/G-215	180	503	UVY2
RRC-SA-17	PSA-35 SNUBBER	RRC-101	BC/G-216	90	526	UVY2
RRC-SA-18	PSA-35 SNUBBER	RRC-101	BC/G-216	90	526	UVY2
RRC-SA-19	PSA-35 SNUBBER	RRC-101	BC/G-215	R-47	520	UVY2
RRC-SA-2	PSA-35 SNUBBER	RRC-101	BC/G-215	180	512	UVY2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RRC-SA-20	PSA-35 SNUBBER	RRC-101	BC/G-215	180	520	UVY2
RRC-SA-25	PSA-35 SNUBBER	RRC-101	BC/G-215	180	511	UVY2
RRC-SA-3	PSA-100 SNUBBER	RRC-103	BC/G-216	156	522	UVY2
RRC-SA-4	PSA-100 SNUBBER	RRC-103	BC/G-216	135	522	UVY2
RRC-SA-5	PSA-100 SNUBBER	RRC-103	BC/G-216	130	523	UVY2
RRC-SA-6	PSA-100 SNUBBER	RRC-103	BC/G-216	135	503	UVY2
RRC-SA-65	PSA-35 SNUBBER	RRC-101	BC/G-216	104	506	UVY2
RRC-SA-66	PSA-35 SNUBBER	RRC-101	BC/G-216	155	506	UVY2
RRC-SA-7	PSA-35 SNUBBER	RRC-101	BC/G-216	105	506	UVY2
RRC-SA-8	PSA-35 SNUBBER	RRC-101	BC/G-216	90	519	UVY2
RRC-SA-9	PSA-35 SNUBBER	RRC-101	BC/G-216	90	520	UVY2
RRC-SB-1	PSA-35 SNUBBER	RRC-102	BC/G-217	0	509	UVY2
RRC-SB-11	PSA-35 SNUBBER	RRC-102	BC/G-218	225	528	UVY2
RRC-SB-12	PSA-35 SNUBBER	RRC-102	BC/G-218	300	528	UVY2
RRC-SB-13	PSA-35 SNUBBER	RRC-102	BC/G-218	225	528	UVY2
RRC-SB-14	PSA-35 SNUBBER	RRC-102	BC/G-218	295	528	UVY2
RRC-SB-15	PSA-35 SNUBBER	RRC-102	BC/G-218	270	506	UVY2
RRC-SB-16	PSA-35 SN(2)	RRC-102	BC/G-217	0	518	UVY2
RRC-SB-17	PSA-35 SNUBBER	RRC-102	BC/G-218	270	526	UVY2
RRC-SB-18	PSA-35 SNUBBER	RRC-102	BC/G-218	270	526	UVY2
RRC-SB-2	PSA-35 SNUBBER	RRC-102	BC/G-217	0	508	UVY2
RRC-SB-25	PSA-35 SNUBBER	RRC-102	BC/G-217	0	515	UVY2
RRC-SB-3	PSA-100 SNUBBER	RRC-103	BC/G-218	315	523	UVY2
RRC-SB-4	PSA-100 SNUBBER	RRC-103	BC/G-218	315	523	UVY2
RRC-SB-5	PSA-100 SNUBBER	RRC-103	BC/G-218	315	523	UVY2
RRC-SB-6	PSA-100 SNUBBER	RRC-103	BC/G-218	317	502	UVY2
RRC-SB-65	PSA-35 SNUBBER	RRC-102	BC/G-218	270	506	UVY2
RRC-SB-66	PSA-35 SNUBBER	RRC-102	BC/G-218	R-44	506	UVY2
RRC-SB-7	PSA-35 SNUBBER	RRC-102	BC/G-218	270	506	UVY2
RRC-SB-8	PSA-35 SNUBBER	RRC-102	BC/G-218	270	518	UVY2
RRC-SB-9	PSA-35 SNUBBER	RRC-102	BC/G-218	270	518	UVY2
RWCU-1C-1	PSA-3 SNUBBER	RWCU-101	RWCU-812-3.6	75	541	UVX2

TABLE 6.2
SNUBBER LIST INACCESSIBLE
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IDENT NO	DESCRIPTION	ISI DRAWING	CONSTR DRAWING	AZ/ZONE	ELEVATION	REQUIREMENTS
RWCU-1C-11	PSA-3 SNUBBER	RWCU-101	RWCU-812-1	75	500	UVX2
RWCU-1C-12	PSA-3 SNUBBER	RWCU-101	RWCU-812-1	R-45	500	UVX2
RWCU-1C-16	PSA-1 SNUBBER	RWCU-101	RWCU-811-1.2	45	500	UVX2
RWCU-1C-17	PSA-1 SN(2)	RWCU-101	RWCU-811-1.2	45	508	UVX2
RWCU-1C-2	PSA-1 SNUBBER	RWCU-101	RWCU-812-3.7	140	538	UVX2
RWCU-1C-3	PSA-3 SN(2)	RWCU-101	RWCU-812-3.7	90	538	UVX2
RWCU-1C-4	PSA-10 SNUBBER	RWCU-101	RWCU-812-3.7	100	538	UVX2
RWCU-1C-5	PSA-3 SNUBBER	RWCU-101	RWCU-812-2	75	513	UVX2
RWCU-1C-6	PSA-3 SNUBBER	RWCU-101	RWCU-812-2	75	501	UVX2
RWCU-1C-7	PSA-3 SNUBBER	RWCU-101	RWCU-812-1	75	500	UVX2
RWCU-1C-8	PSA-3 SNUBBER	RWCU-101	RWCU-812-2	75	501	UVX2
RWCU-926N	PSA-35 SNUBBER	RWCU-101	RWCU-812-P.13	250	539	UVY2
SLC-4475-112	PSA-1/2 SNUBBER	SLC-101	SLC-4475-1	R-46	515	UVW2
SLC-4475-113	PSA-1/2 SNUBBER	SLC-101	SLC-4475-11	R-46	515	UVW2
SLC-4475-114	PSA-1 SNUBBER	SLC-101	SLC-4475-11	R-46	518	UVX2
SLC-4475-116	PSA-1 SNUBBER	SLC-101	SLC-4475-11	R-48	520	UVX2
SLC-4475-117	PSA-1/2 SNUBBER	SLC-101	SLC-4475-11	R-48	520	UVW2
SLC-4475-12	PSA-1/4 SNUBBER	SLC-101	SLC-4475-1	R-46	502	UVW2
SLC-4475-120	PSA-1 SNUBBER	SLC-101	SLC-4475-12	R-46	540	UVX2
SLC-4475-122	PSA-1/4 SNUBBER	SLC-101	SLC-4475-12	R-46	537	UVW2
SLC-4475-13	PSA-1/2 SNUBBER	SLC-101	SLC-4475-1	R-46	530	UVW2
SLC-4475-14	PSA-1/2 SNUBBER	SLC-101	SLC-4475-1	R-46	530	UVW2
SLC-4475-15	PSA-1/2 SNUBBER	SLC-101	SLC-4475-1	R-46	515	UVW2
VR-6	PSA-1 SNUBBER	+GC I SN	VR-666-4.5	R-41	510	UX2
VR-8	PSA-1 SNUBBER	+GC I SN	VR-666-4.5	R-41	510	UX2

TOTAL COUNT = 473

7.0 ISI BOUNDARY DIAGRAMS

7.1 ISI BOUNDARY DIAGRAMS

The ISI Boundary Diagrams on the following pages provide a schematic view of the examination requirements for each system which contains components which are subject to examination within the scope of the applicable codes, standards, and regulations listed in Section 4.0", CODE COMMITMENTS" and Section 5.0, "FSAR/NRC COMMITMENTS". The key to the symbolism used on these drawings is found on ISI-200, the first drawing in the series.

These drawings illustrate the overall piping system examination requirements, distinguishing between systems requiring volumetric, surface and visual examinations (dashed lines), those requiring surface and visual examinations but not volumetric (dash-dot-lines), and those requiring only a visual examination during pressure tests (solid lines). Examination items such as hangers, instruments, thermal wells, and leak off connections are not typically shown on the ISI Boundary Diagrams in order to maintain drawing clarity. Detailed item-by-item examination requirements for all examination items in each of these piping systems is given in the Weld Identification Drawings and Program Plan and Schedule Tables found in Section 14.0, "WELD IDENTIFICATION DIAGRAMS".

Piping and components which do not require visual examination by being exempt from pressure test requirements by IWD-5223(e) or which are not required to be included in the test boundary by IWC-5222(d), IWD-5223(d), IWD-5223(e) and IWD-5223(f) are not included on the boundary diagrams.

The code exemptions for each system are tabulated following each ISI Boundary Diagram. The exemptions are discussed under Section 4.0.

The drawings included in this Section are:

ISI-200	Legend
ISI-217	Misc. Containment Penetrations
ISI-219	Reactor Core Isolation Cooling (RCIC)
ISI-220	High Pressure Core Spray (HPCS) Low Pressure Core Spray (LPCS)
ISI-221	Residual Heat Removal System (RHR)
ISI-222	Standby Liquid Control (SLC)
ISI-223	Reactor Water Clean-up (RWCU)
ISI-224	Standby Service Water System (SW)
ISI-225	Reactor Closed Cooling (RCC)
ISI-226	Fuel Pool Cooling (FPC)
ISI-228	Control Rod Drive (CRD)
ISI-229	Main Steam (MS) & Reactor Feedwater (RFW)
ISI-230	Reactor Recirculation (RRC)

ISI BOUNDARY DIAGRAM SYMBOLS

- PIPING SYSTEMS REQUIRING VISUAL, SURFACE AND VOLUMETRIC EXAMINATIONS.
- PIPING SYSTEMS REQUIRING VISUAL AND SURFACE EXAMINATIONS.
- PIPING SYSTEMS REQUIRING ONLY A VISUAL (VT-1, 2, 3 OR 4) EXAMINATION.
- PIPING SYSTEMS FOR WHICH NO EXAMINATION IS REQUIRED PER ASME SECTION XI.
- AUGMENTED ISI BOUNDARY
- CONTAINMENT PENETRATION, TYPICAL
- BULKHEAD PENETRATION, TYPICAL
- FLOW ARROW
- REDUCER (INDICATES LINE SIZE CHANGE ONLY)
- CONNECTION TO COMPONENT
- TRAP
- PIPE CAP, THREADED
  PIPE CAP, WELDED, RESPECTIVELY
- FILTER
- "Y" TYPE STRAINER
- CONICAL STRAINER, IN-LINE
- FLANGE
- FLOW ELEMENT
- EXPANSION JOINT
- RUPTURE DISK
- SPECTACLE FLANGE
- ORIFICE, SIMPLE
- ORIFICE, MULTIPLE
- FLEX HOSE
- FLOW NOZZLE
- CROSS
- EXCESS FLOW CHECK VALVE
- EXPLOSIVELY ACTUATED SHEAR PLUG VALVE
- SOLENOID VALVE WITH BUILT IN FLOW CONTROL

GENERAL SYMBOLS

- GATE VALVE, NORMALLY OPEN/NORMALLY CLOSED, RESPECTIVELY
- GLOBE VALVE, NORMALLY OPEN/NORMALLY CLOSED, RESPECTIVELY
- GLOBE, STOP CHECK VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- PLUG OR BALL VALVE
- DIAPHRAGM VALVE
- UNION CONNECTION
- RELIEF VALVE

WELD & CONPONENT IDENTIFICATION DIAGRAM SYMBOLS

- SHOP WELD
- FIELD WELD
- WELDOLET, SOCKOLET, SWEEPOLET BRANCH CONNECTION
- SPRING HANGER, NON-WELDED AND WELDED ATTACHMENTS, RESPECTIVELY
- SNUBBER OR SHOCK ABSORBER, NON-WELDED AND WELDED ATTACHMENTS, RESPECTIVELY
- RIGID HANGER, NON WELDED AND WELDED ATTACHMENTS, RESPECTIVELY
- PIPE WHIP RESTRAINT (PWS), GUIDE
- X-3 CONTAINMENT PENETRATION
- N5 VESSEL NOZZLE, TYPICAL

SYSTEM NAME & NUMBER AS SHOWN

12 LPCS (1)-4

- SYSTEM PRESSURE RATINGS:
  1 = 150 PSI 4 = 900 PSI
  2 = 300 PSI 5 = 1500 PSI
  3 = 600 PSI 6 = 2500 PSI
- SYSTEM NUMBER
- SYSTEM NAME
- PIPE SIZE (NOMINAL INCHES)

WELD NUMBERING SYSTEM SAMPLES

26 MS(1) A-4 LD
- LONGITUDINAL WELD, DOWNSTREAM OF WELD #4
- WELD SEQUENCE NUMBER
- LOOP OF MULTIPLE STREAM SYSTEM
- SYSTEM NAME AND NUMBER
- PIPE SIZE (NOMINAL INCHES)

26 MS(1) A-4 LU
- LONGITUDINAL WELD, UPSTREAM OF WELD #4

26 MS(1) A-4 BD
- BOLTING, DOWNSTREAM OF WELD #4

26 MS(1) A-4 BU
- BOLTING, UPSTREAM OF WELD #4

12 LPCS(1)-2/3/4 V-14
- (FOR BRANCH LINES REQUIRING ONLY A VISUAL EXAMINATION)
- VALVE WHICH ESTABLISHES LIMIT OF VISUAL EXAMINATION
- BRANCH CONNECTION SIZE

12 LPCS(1)-17/4 LPCS(1)-4
- (WELDOLET TO MAIN LINE WELD, BRANCH LINE REQUIRES SURFACE OR VOLUMETRIC EXAMINATION)
- BRANCH LINE SYSTEM NAME AND NUMBER AS SHOWN ON BOUNDARY DIAGRAM
- BRANCH CONNECTION (WELDOLET) SIZE

INDEX TO BOUNDARY DIAGRAMS

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER K-McANDREW
DRAWN K-McANDREW
DATE 5-10-78

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND
DWG NO. ISI-200 REV 2

NO	DATE	REVISION	BY	CHK'D	APV'D
2	7-26-84	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
1	11-28-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K-McA	TFH DWP	DWP LEM
A	5-10-78	ISSUED FOR INFORMATION ONLY	K-McA	DWP	DWP

Date 04/16/85
Revision 0

Exemptions

ISI-217

SYSTEM: Miscellaneous Containment Penetrations

EXEMPTIONS APPLIED:

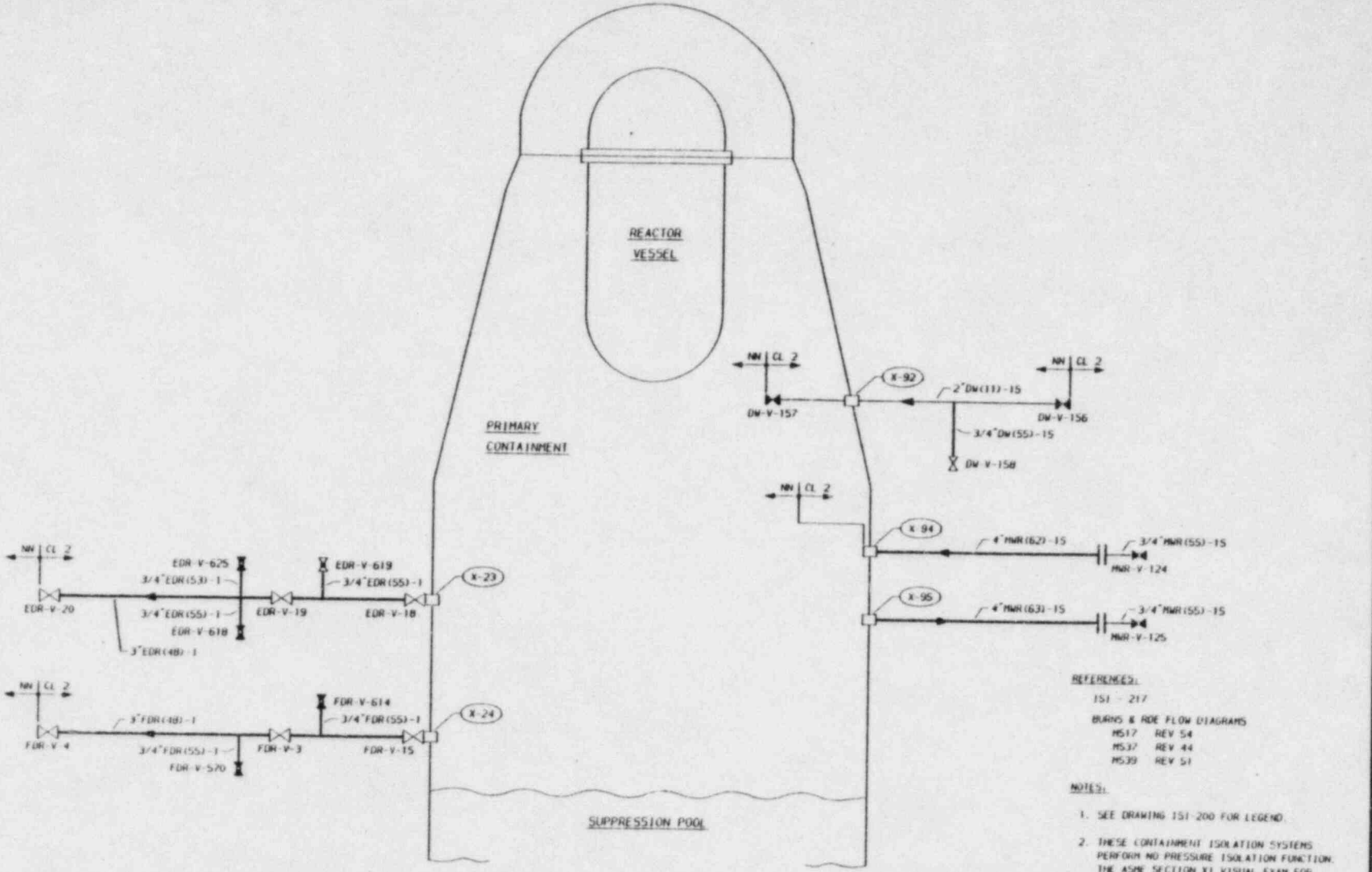
IWB-1220(a)	N/A	
(b)(1)	N/A	
(b)(2)	N/A	
(c)	N/A	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping $\leq$ 4NPS
(b)	No	
(c)	Yes	
(d)	No	
IWD-1220.1	N/A	
IWD-1220.2	N/A	
Requests for Relief	None	

Note: 1) All components and piping are Class 2

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

ISI - 217

BURNS & ROE FLOW DIAGRAMS
M517 REV 54
M537 REV 44
M539 REV 51

NOTES:

1. SEE DRAWING ISI-200 FOR LEGEND.
2. THESE CONTAINMENT ISOLATION SYSTEMS PERFORM NO PRESSURE ISOLATION FUNCTION. THE ASME SECTION XI VISUAL EXAM FOR EVIDENCE OF LEAKAGE REQUIREMENTS WILL BE SATISFIED BY THE 10CFR 50 APPENDIX J TESTS.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
3	1-20-84	REVISED FOR ISI	K-McA	DPR	TFH
2	11-2-84	GENERAL UP-DATE REDRAWN	K-McA	DPR	TFH
1	2-2-79	DELETED PIPE AND CAPS ZN E-8	K-McA	DWP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	TFH DWP	LFB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DWP

ENGINEER D PORTER	WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DRAWN K-McANDREW	RICHLAND, WASHINGTON 99352
DATE 10-12-78	WNP-2
DWG NO. ISI-217	INSERVICE INSPECTION BOUNDARY DIAGRAM MISCELLANEOUS CONTAINMENT PENETRATIONS
REV 3	

Date 04/16/85
Revision 0

Exemptions

ISI-219

SYSTEM: Reactor Core Isolation Cooling (RCIC)

EXEMPTIONS APPLIED:

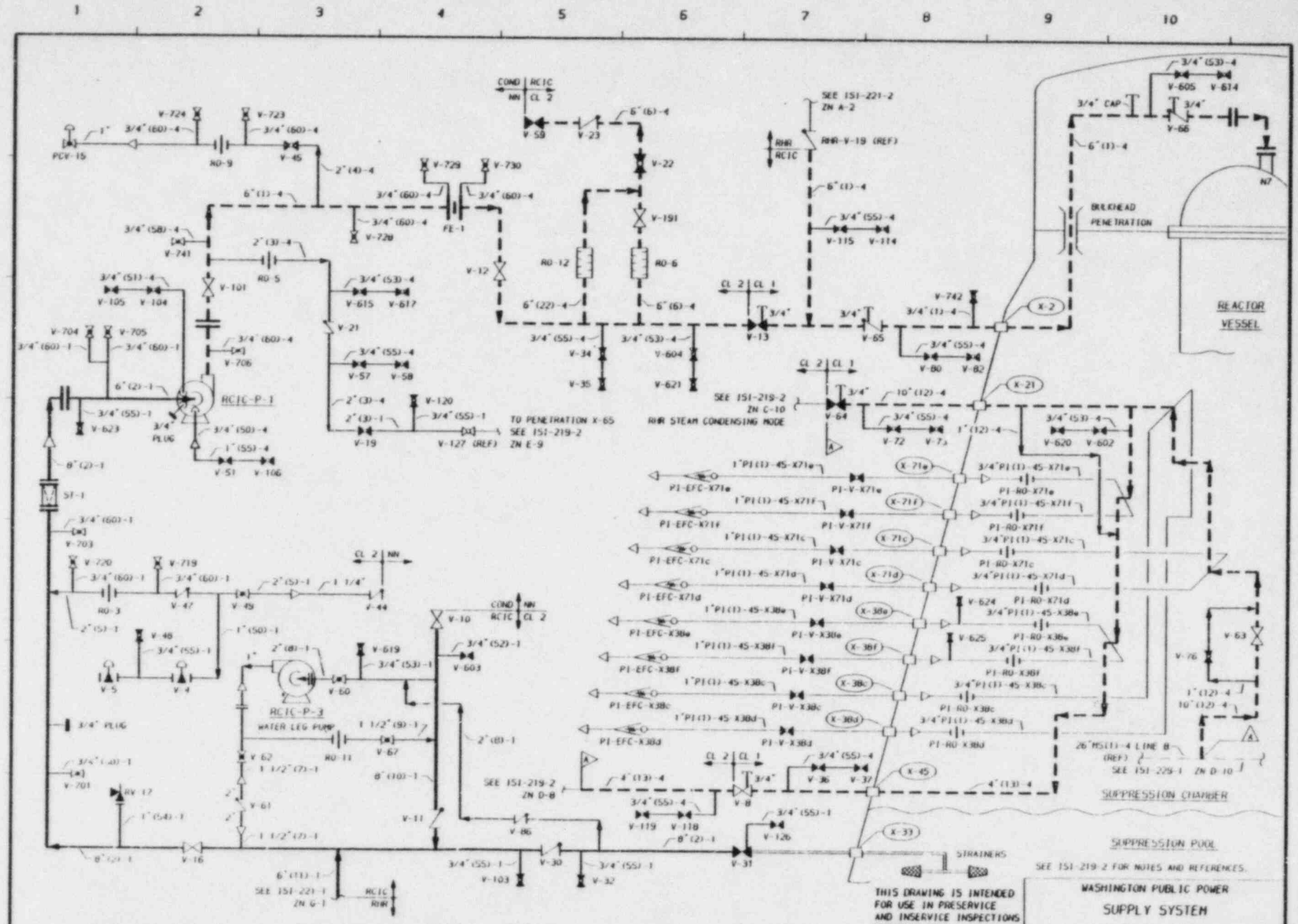
IWB-1220(a)	No	
(b)(1)	Yes	All piping and components ≤ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components ≤ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping ≤ 4NPS
(b)	Yes	
(c)	Yes	Pump suction piping
(d)	No	
IWD-1220.1	N/A	No Class 3 piping
IWD-1220.2	N/A	
Requests for Relief	None	

Note: 1) The steam condensing mode of RHR/RCIC will not be used at WNP-2. Surface, volumetric and visual examinations will extend only to the first closed valve, RCIC-V-64.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



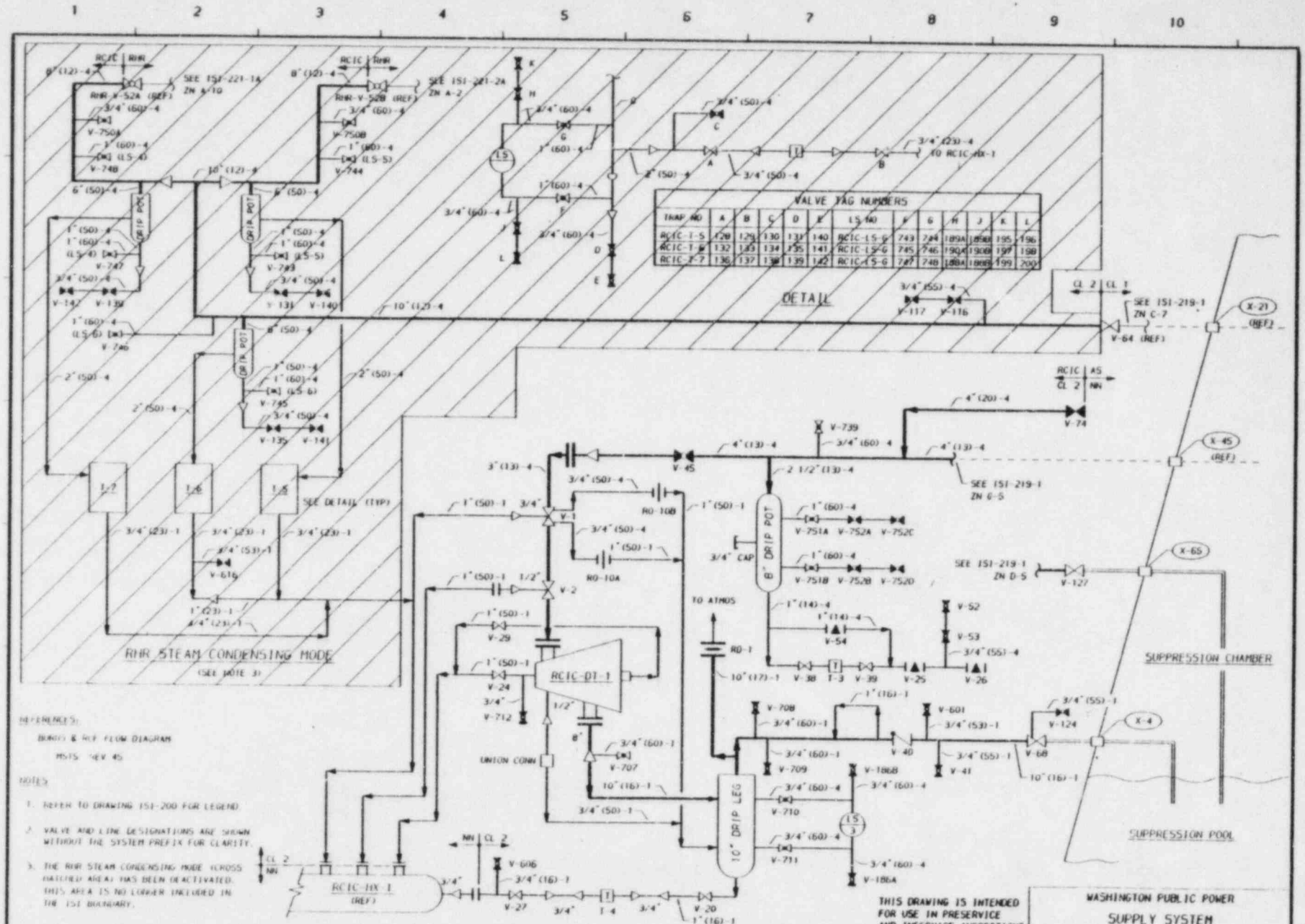
NO	DATE	REVISION	BY	CHKD	APVD
2	7-19-85	REVISED FOR ISI			
1	11-28-84	GENERAL UPDATE, AUGMENTED ISI ADDED, REDRAWN	K. MCA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K. MCA	TFH DWP	TFH LEB
A	12-6-77	ISSUED FOR INFORMATION ONLY	K. MCA	DWP	NCH

ENGINEER D PORTER
DRAWN K. MCANDREW
DATE 11-30-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR CORE ISOLATION COOLING (RCIC)

DWG NO. ISI-219-1 REV 2



REFERENCES:

BORON & REF FLOW DIAGRAM
M515, REV 45

NOTES:

1. REFER TO DRAWING 1SI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.
3. THE RHR STEAM CONDENSING MODE (CROSS HATCHED AREA) HAS BEEN DEACTIVATED. THIS AREA IS NO LONGER INCLUDED IN THE ISI BOUNDARY.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
2	1-24-84	REVISED FOR ISI			
1	11-29-84	GENERAL UPDATE, AUGMENTED ISI ADDED, REDRAWN	K-McA	DMP	TFH
0	1-9-79	ISSUED FOR USE	K-McA	TFH	DMP
A	12-6-77	ISSUED FOR INFORMATION ONLY	K-McA	DMP	NCH

ENGINEER	D PORTER
DRAWN	K-McANDREW
DATE	11-30-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR CORE ISOLATION COOLING (RCIC)

DWG NO. 1SI-219-2 REV 2

Date 04/16/85
Revision 0

Exemptions

ISI-220

SYSTEM: High Pressure Core Spray (HPCS)/Low Pressure Core Spray (LPCS)

EXEMPTIONS APPLIED:

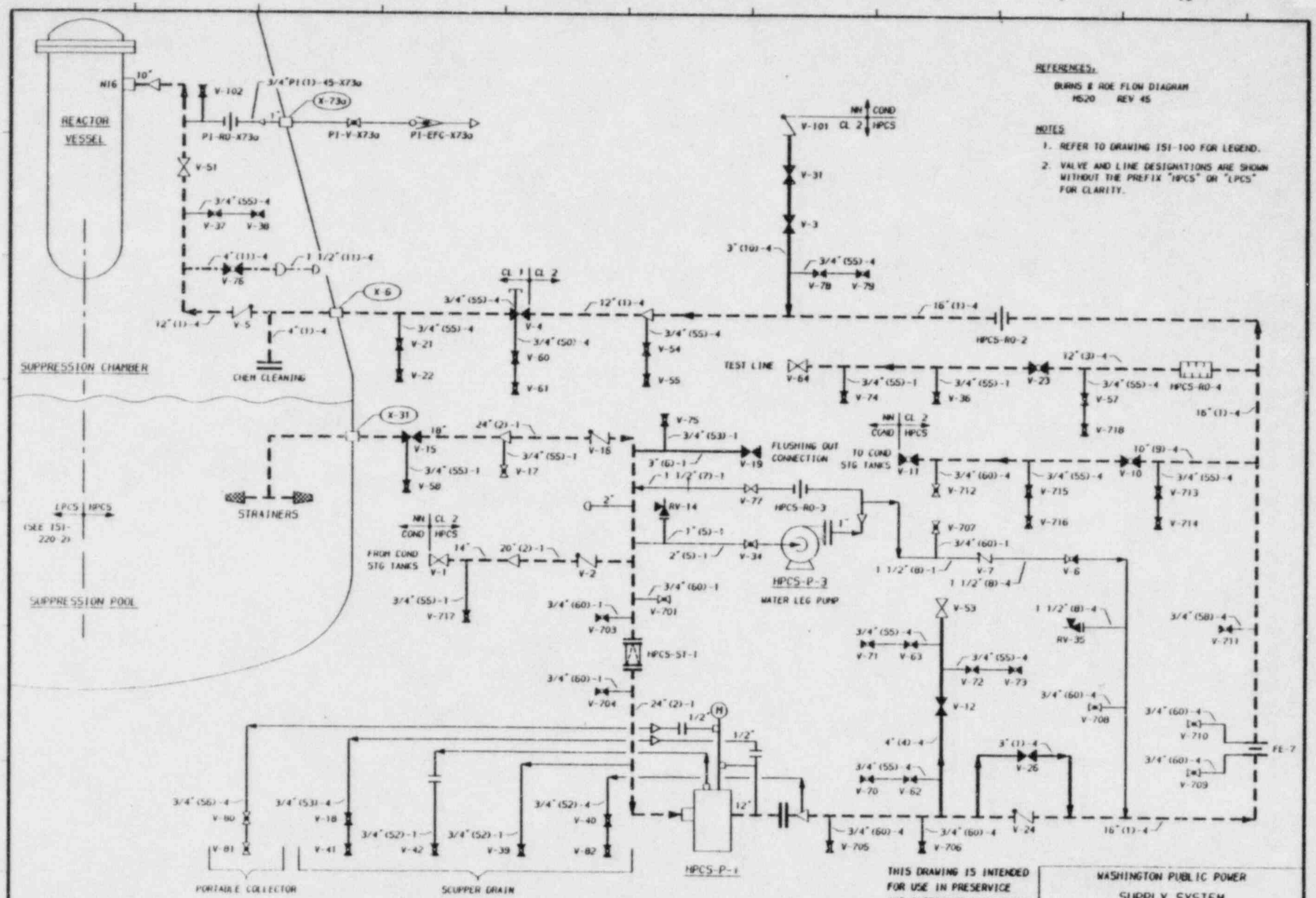
IWB-1220(a)	No	
(b)(1)	Yes	All piping and components $\leq$ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	Yes	All piping $\leq$ 4NPS
(b) N/A[3]		
(c)	Yes	
(d) N/A[3]		
(e) N/A[3]		
(f)	Yes	See Note 1
IWC-1222(a)	N/A	
(b)	N/A	
(c)	N/A	
(d)	N/A	
IWD-1220.1	N/A	All piping is Class 1 or Class 2
IWD-1220.2	N/A	
Requests for Relief	None	

Note: 1) 12" HPCS (3)-1-1 12" LPCS (3)-1-1
6" HPCS (4)-1-1 6" LPCS (4)-1-1

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BURNS & ROE FLOW DIAGRAM M520 REV 45

NOTES

1. REFER TO DRAWING ISI-100 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE PREFIX "HPCS" OR "LPCS" FOR CLARITY.

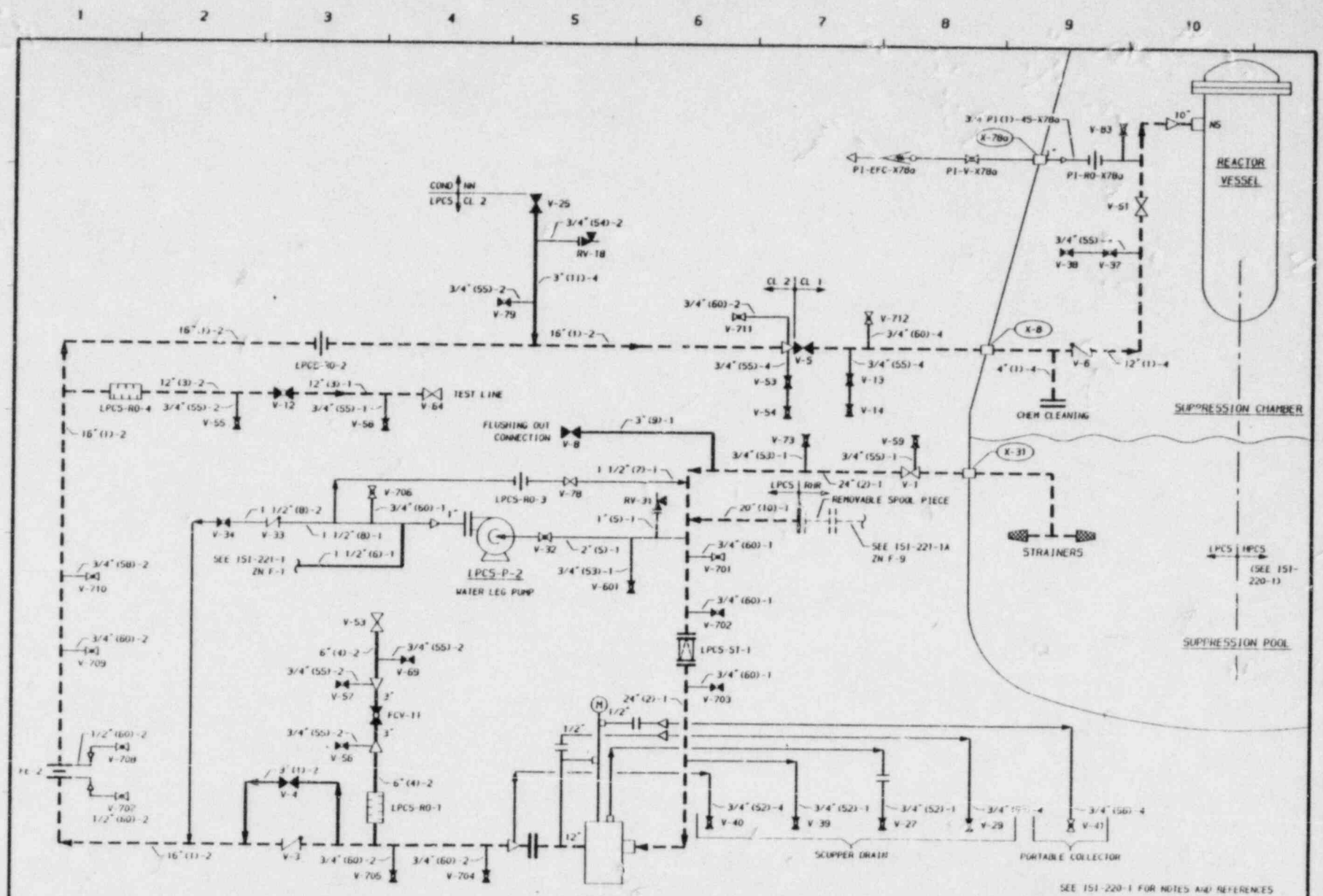
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
HIGH PRESSURE CORE SPRAY (HPCS)
LOW PRESSURE CORE SPRAY (LPCS)

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 11-16-77
DWG NO. ISI-220-1 REV 2

NO	DATE	REVISION	BY	CHKD	APVD
2	[illegible]	REVISED FOR ISI	[illegible]	DPR	[illegible]
1	11-28-84	GENERAL UPDATE, SPLIT, (REDRAWN)	K-McA	DPR	TFH
0	11-22-78	ISSUED FOR USE (REDRAWN)	K-McA	TFH / DMP	LFB
A	12-6-77	ISSUED FOR INFORMATION ONLY	K-McA	DMP / GM	DMP



NO	DATE	REVISION	BY	CHKD	APVD
2	4-4-84	REVISED FOR ISI			
1	11-28-84	GENERAL UPDATE, SPLIT, (REDRAWN)	K-McA	DPR	TFH
0	11-22-78	ISSUED FOR USE (REDRAWN)	K-McA	TFH DWP	LFB
A	12-6-77	ISSUED FOR INFORMATION ONLY	K-McA	DWP GAS	DWP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K-McANDREW

DATE 11-16-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
HIGH PRESSURE CORE SPRAY (HPCS)
LOW PRESSURE CORE SPRAY (LPCS)

DWG NO. 151-220-2 REV 2

Date 04/16/85
Revision 0

Exemptions

ISI-221

SYSTEM: Residual Heat Removal (RHR)

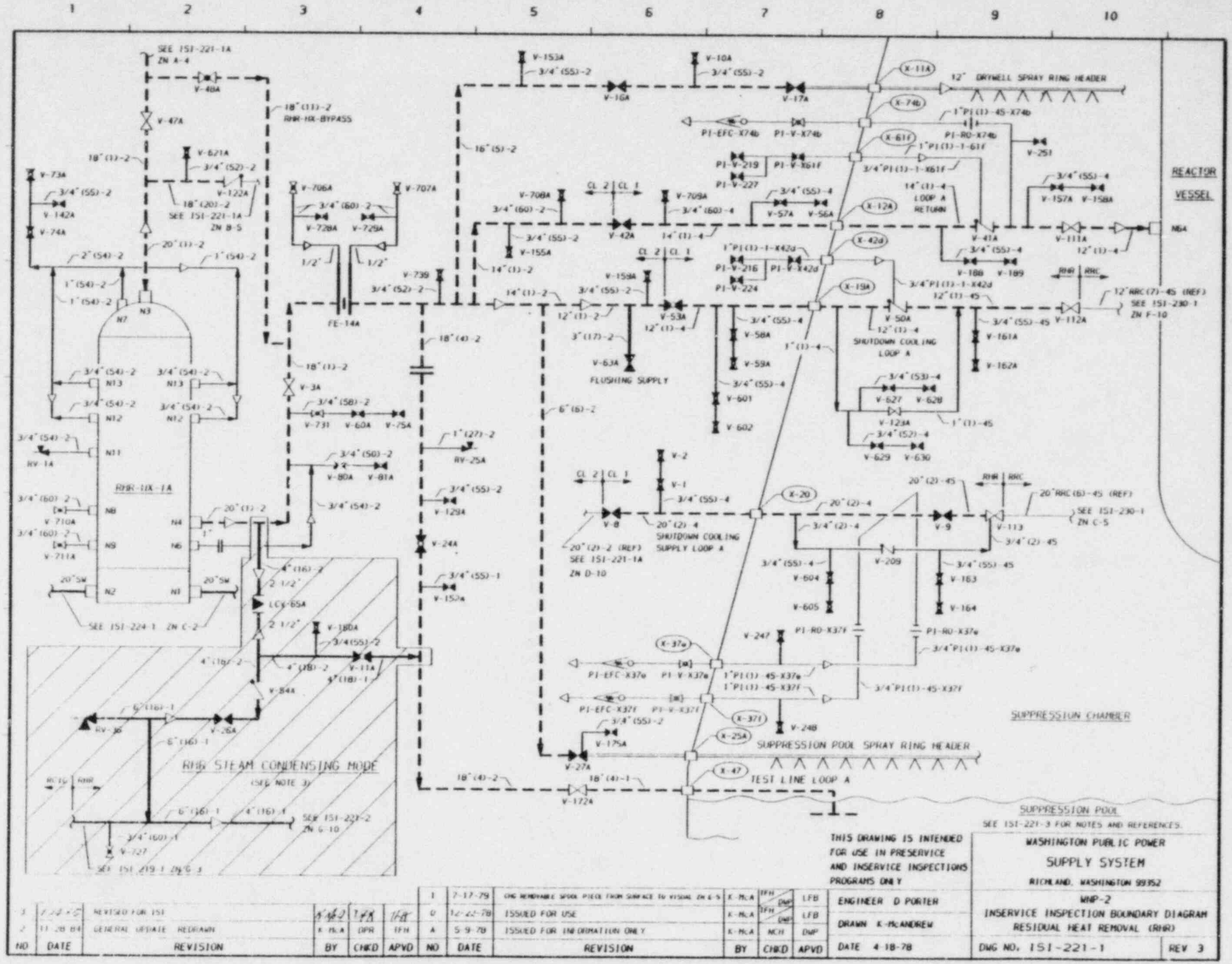
EXEMPTIONS APPLIED:

IWB-1220(a)	No	
(b)(1)	Yes	All piping and components $\leq$ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	Yes	All piping $\leq$ 4NPS
(b) N/A[3]		
(c)	Yes	
(d) N/A[3]		
(e) N/A[3]		
(f)	Yes	See Note 2
IWC-1222(a)	N/A	
(b)	N/A	
(c)	N/A	
(d)	N/A	
IWD-1220.1	N/A	All piping and components are Class 1 or Class 2
IWD-1220.2	N/A	
Requests for Relief	Yes	RHR pumps, see ISI-2-002

Notes: 1) The steam condensing mode of RHR will not be used at WNP-2. Surface, volumetric and visual examinations will extend only to the first closed valve from the RHR system main loop.

2)
- 18" RHR (4)-1-1
- 18" RHR (4)-1-2
- 18" RHR (4)-1-3
- 18" RHR (28)-1-2
- 16" RHR (28)-1-5
- 16" RHR (5)-2-1 (downstream of RHR-V-17A)
- 16" RHR (5)-2-2 (downstream of RHR-V-17B)
- 10" RHR (28)-1-2
- 10" RHR (28)-1-5
- 8" RHR (7)-1-2
- 8" RHR (54)-1-1
- 6" RHR (6)-2-1 (downstream of RHR-V-27A)
- 6" RHR (6)-2-2 (downstream of RHR-V-27B)
- 6" RHR (6)-2-3
- 6" RHR (7)-1-2

[1] Refers to W-80 all categories except C-F
[2] Refers to W-83 category C-F
[3] Applies to PWR



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

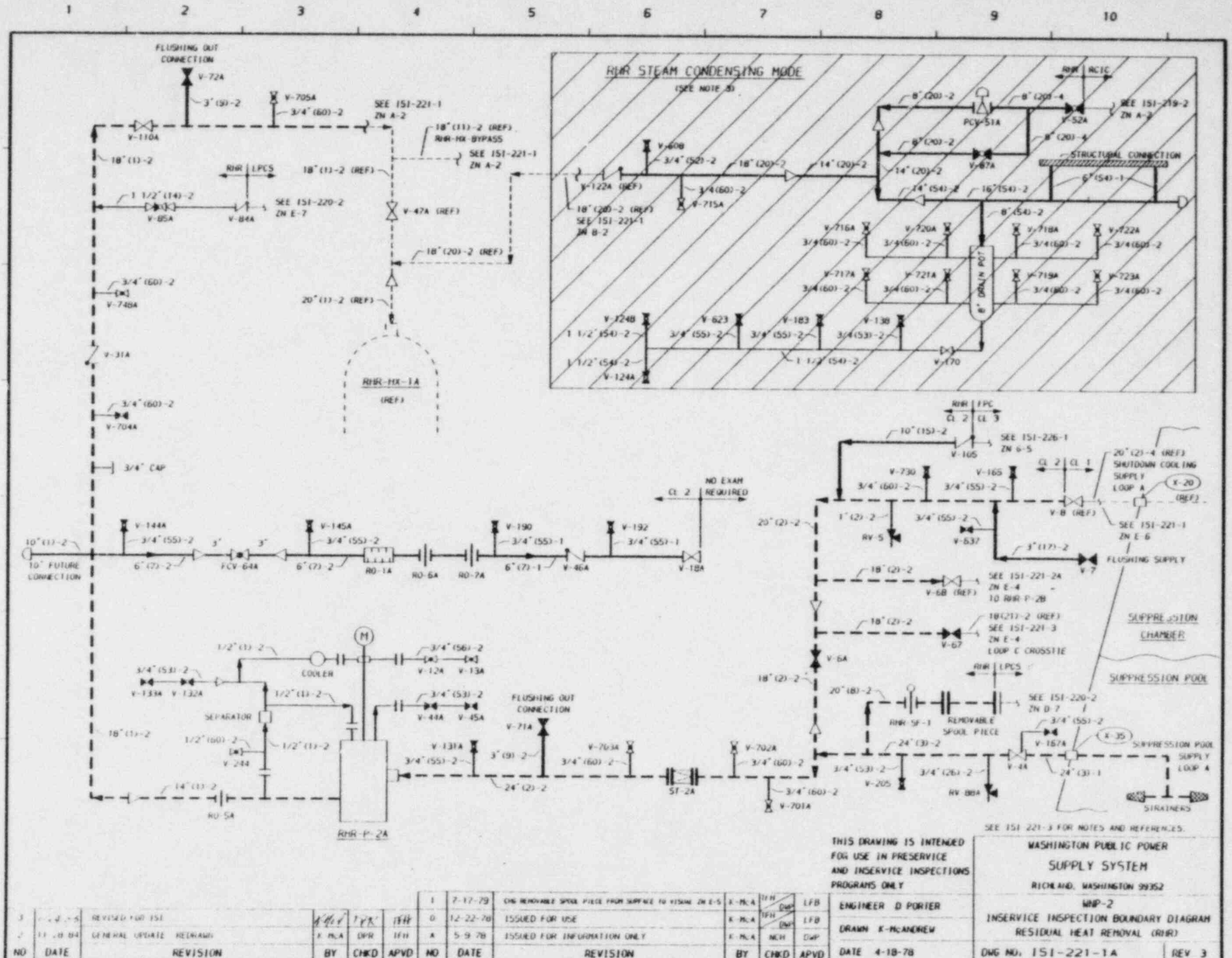
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 4-18-78

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
RESIDUAL HEAT REMOVAL (RHR)
DWG NO. ISI-221-1 REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	7-12-79	REVISED FOR ISI	K-McA	DPR	TFH
2	11-28-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
1	7-17-79	CHG REMOVABLE SPOOL PIECE FROM SURFACE TO VISUAL ZN E-5	K-McA	TFH	DWP
0	12-22-78	ISSUED FOR USE	K-McA	TFH	DWP
A	5-9-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DWP

NO	DATE	REVISION	BY	CHKD	APVD
1	7-17-79	CHG REMOVABLE SPOOL PIECE FROM SURFACE TO VISUAL ZN E-5	K-McA	TFH	LFB
0	12-22-78	ISSUED FOR USE	K-McA	TFH	LFB
A	5-9-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DWP



SEE ISI 221-3 FOR NOTES AND REFERENCES.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K-MCANDREW

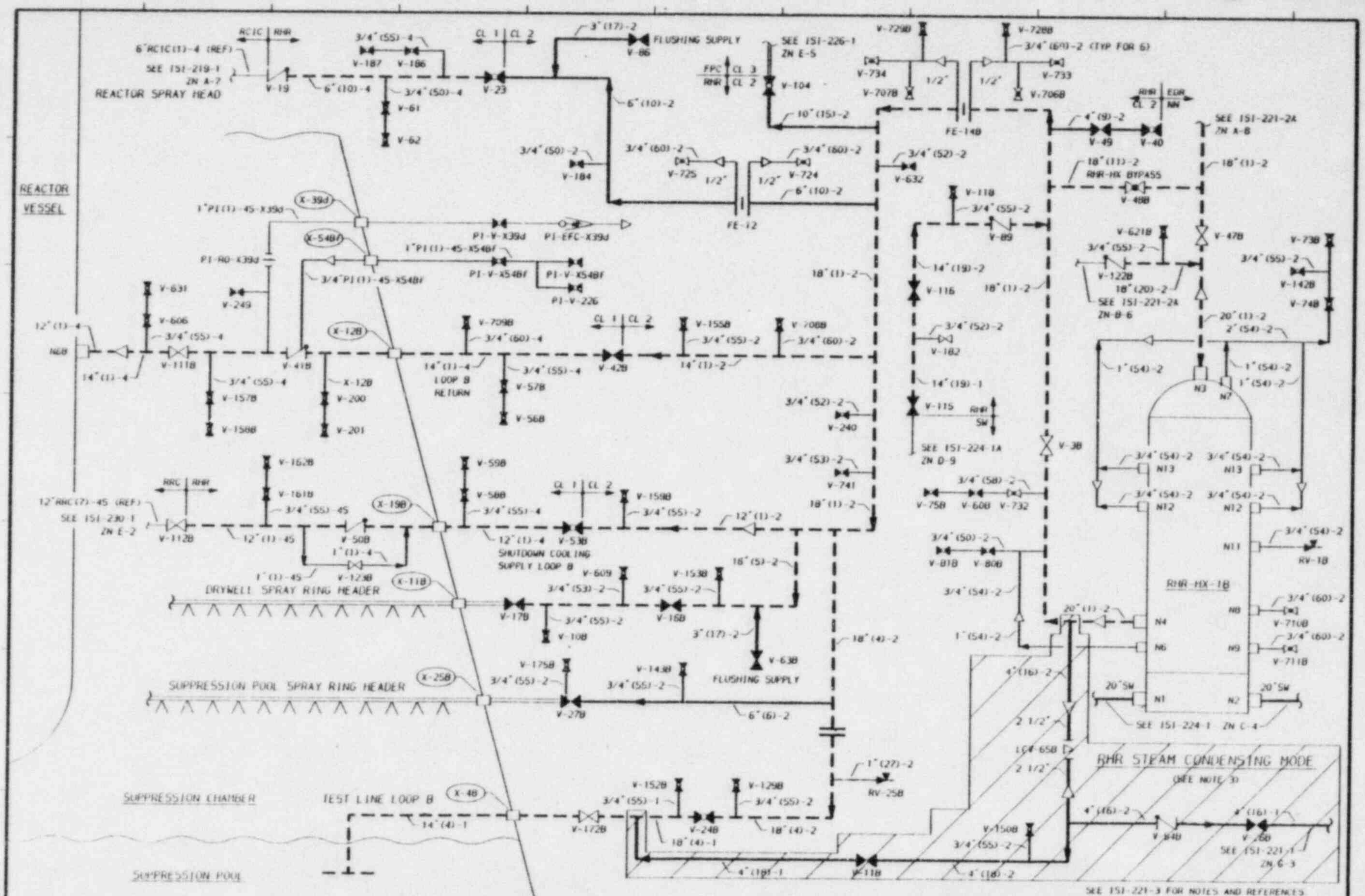
DATE 4-18-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
RESIDUAL HEAT REMOVAL (RHR)

DWG NO. ISI-221-1A REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
2	11-20-84	GENERAL UPDATE REDRAWN	K. McA	DPR	TFH
1	7-17-79	DWG REMOVABLE SPOOL PIECE FROM SUPPRESS TO VISUAL ZN E-5	K. McA	TFH / DWP	LFB
0	12-22-78	ISSUED FOR USE	K. McA	TFH / DWP	LFB
A	5-9-78	ISSUED FOR INFORMATION ONLY	K. McA	NCH	DWP



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

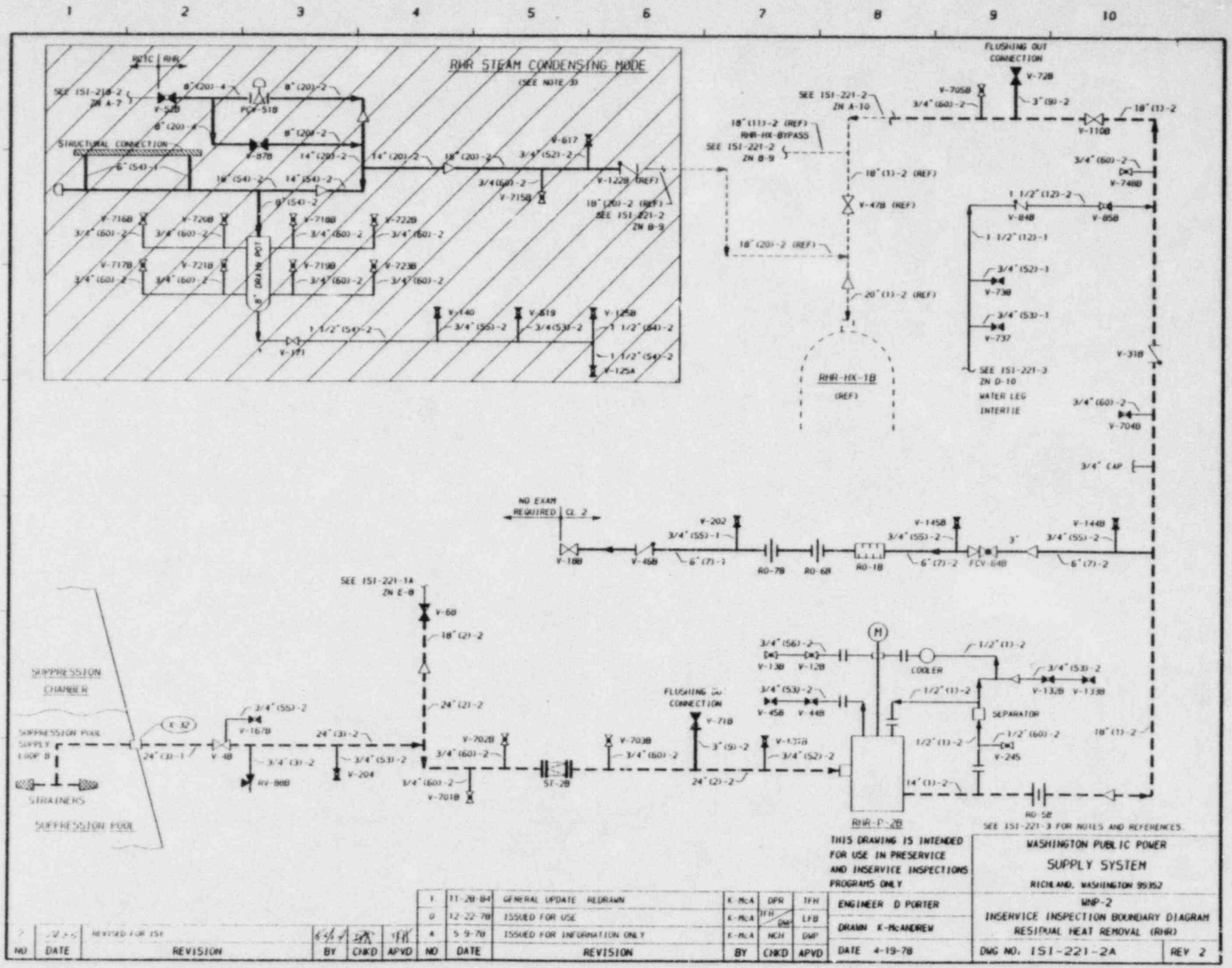
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
RESIDUAL HEAT REMOVAL (RHR)

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 4-19-78

DWG NO. ISI-221-2 REV 2

NO	DATE	REVISION	BY	CHKD	APVD
1	11-28-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH / DWP	LFB
A	5-9-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DWP

NO	DATE	REVISION	BY	CHKD	APVD
2	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

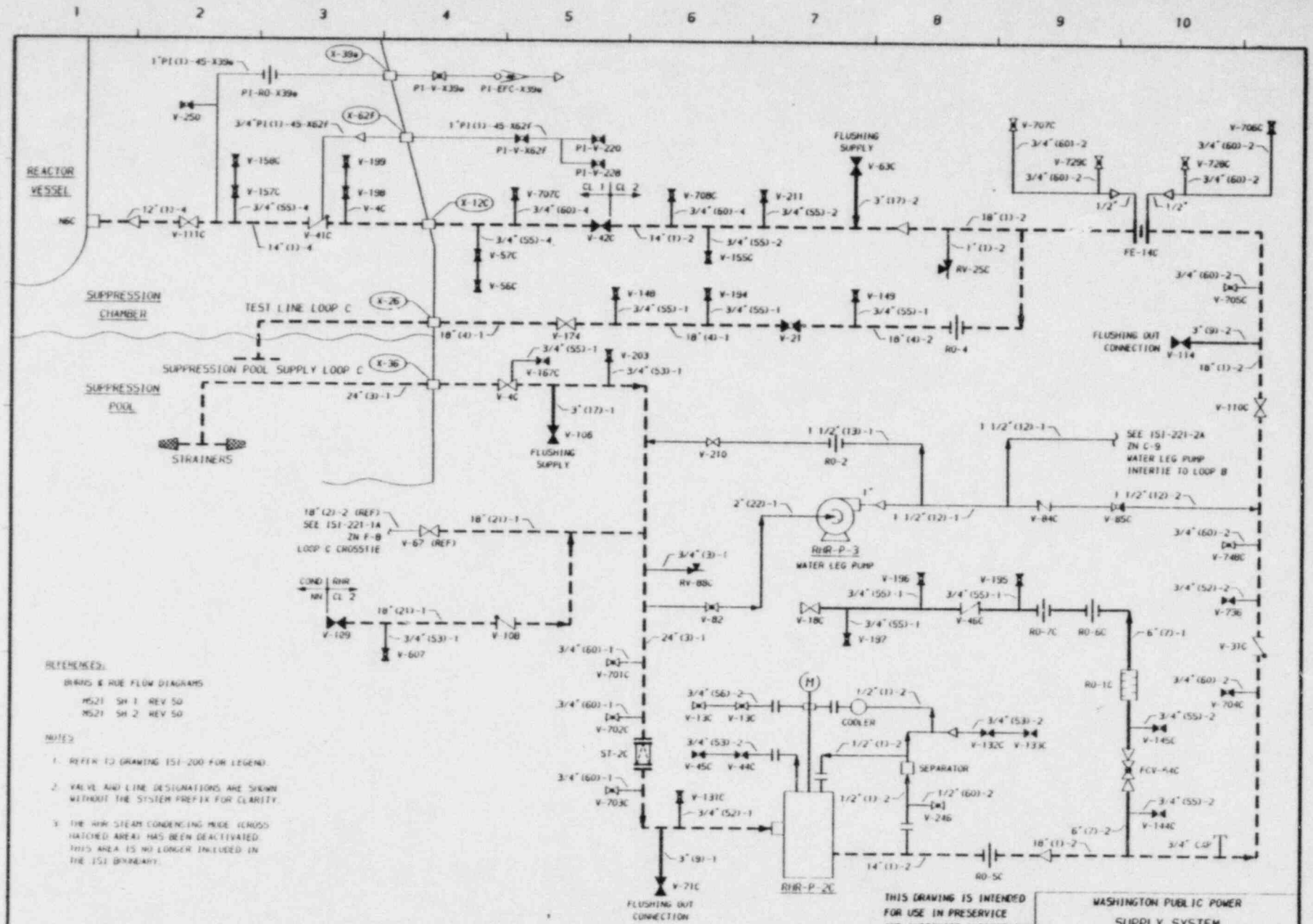
NO	DATE	REVISION	BY	CHKD	APVD
2	10-25	REVISED FOR ISI	[illegible]	[illegible]	TFH
1	11-28-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH/DMP	LFB
A	5-9-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DMP

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 4-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
RESIDUAL HEAT REMOVAL (RHR)

DWG NO. ISI-221-2A REV 2


REACTOR VESSEL
SUPPRESSION CHAMBER
SUPPRESSION POOL
TEST LINE LOOP C
SUPPRESSION POOL SUPPLY LOOP C
STRAINERS
FLUSHING SUPPLY
FLUSHING OUT CONNECTION
RHR-P-3
WATER LEG PUMP
RHR-P-2C
COOLER
SEPARATOR
SEE ISI-221-2A ZN C-9 WATER LEG PUMP INTERTIE TO LOOP B
18" (2)-2 (REF) SEE ISI-221-1A ZN F-8 LOOP C CROSSTIE
REFERENCES:
BWRS & RHR FLOW DIAGRAMS
M521 SH 1 REV 50
M521 SH 2 REV 50
NOTES:
1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.
3. THE RHR STEAM CONDENSING MODE (CROSS HATCHED AREA) HAS BEEN DEACTIVATED. THIS AREA IS NO LONGER INCLUDED IN THE ISI BOUNDARY.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM RESIDUAL HEAT REMOVAL (RHR)
ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 4-18-78
DWG NO. ISI-221-3
REV 3
NO | DATE | REVISION | BY | CHKD | APVD
3 | 11 20 84 | ISSUED FOR ISI | K MLA | DPR | TFH
2 | 11 20 84 | GENERAL UPDATE REDRAWN | K MLA | DPR | TFH
1 | 7-17-79 | ONE REMOVABLE SPOOL PIECE FROM SURFACE TO RTEMP IN E-5 | K-MLA | TFH | LFB
0 | 12-22-78 | ISSUED FOR USE | K-MLA | TFH | LFB
A | 5-9-78 | ISSUED FOR INFORMATION ONLY | K-MLA | MCH | DMP

Date 04/16/85

Revision 0

Exemptions

ISI-222

SYSTEM: Standby Liquid Control (SLC)

EXEMPTIONS APPLIED:

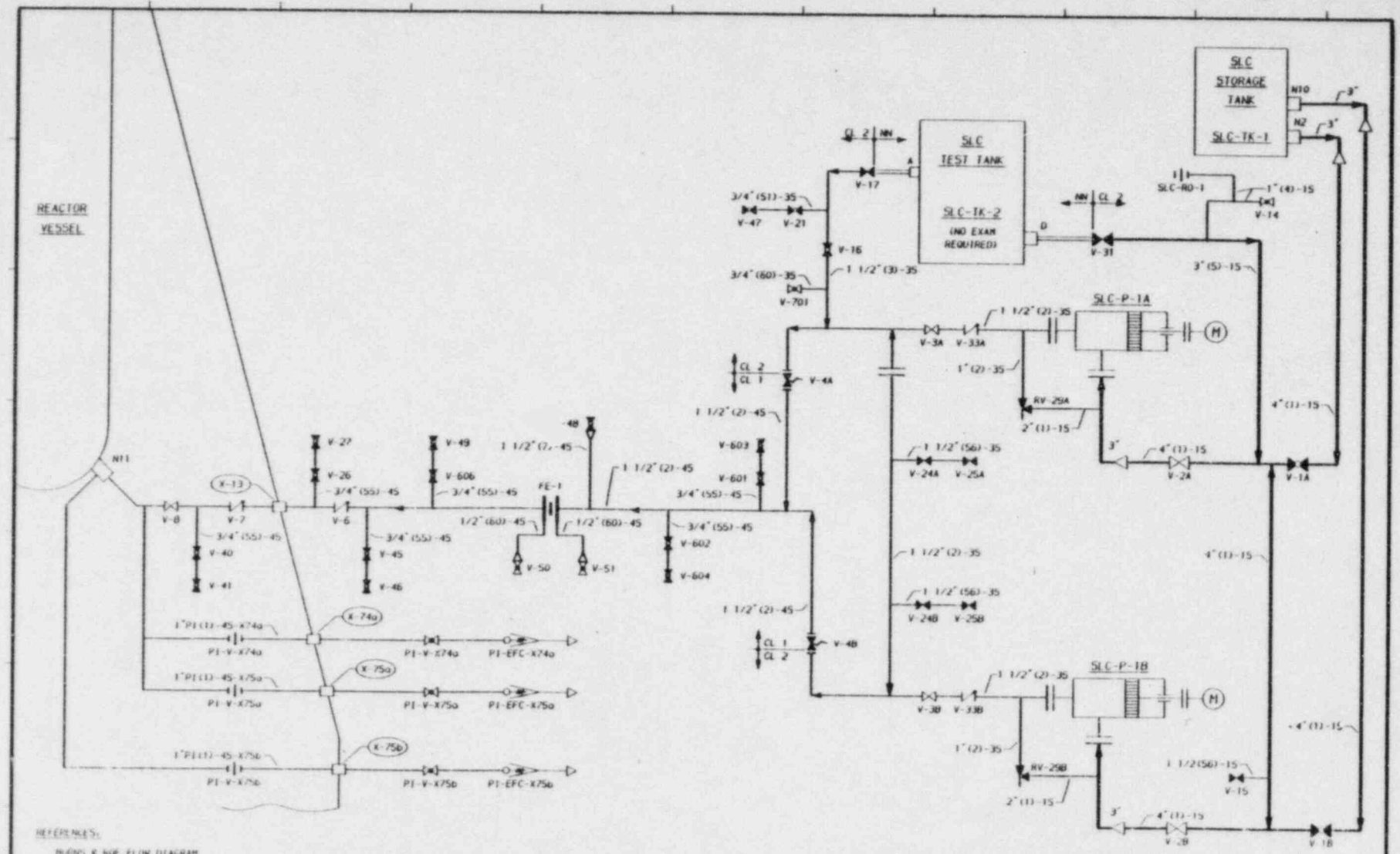
IWB-1220(a)	Yes	All Class 1 SLC
(b)(1)	Yes	All SLC $\leq$ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping $\leq$ 4NPS
(b)	Yes	
(c)	Yes	Pump suction piping
(d)	No	
IWD-1220.1	N/A	
IWD-1220.2	N/A	
Requests for Relief	None	

Note: 1) All SLC piping and components are Class 1 or Class 2

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



NO	DATE	REVISION	BY	CHKD	APVD
2	12-8-83	REVISED FOR ISI	K-McA	LFB	DPR

NO	DATE	REVISION	BY	CHKD	APVD
1	11-8-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH DNP	LFB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DNP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K-McANDREW

DATE 8-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY LIQUID CONTROL (SLC)

DWG NO. 151-222 REV 2

Date 04/16/85
Revision 0

Exemptions

ISI-223

SYSTEM: Reactor Water Clean-up (RWCU)

EXEMPTIONS APPLIED:

IWB-1220(a)	No	
(b)(1)	Yes	All piping and components $\leq$ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	N/A	
(b)	N/A	
(c)	N/A	
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	N/A	
(b)	N/A	
(c)	N/A	
(d)	N/A	
IWD-1220.1	N/A	See Note 2
IWD-1220.2	N/A	
Requests for Relief	None	

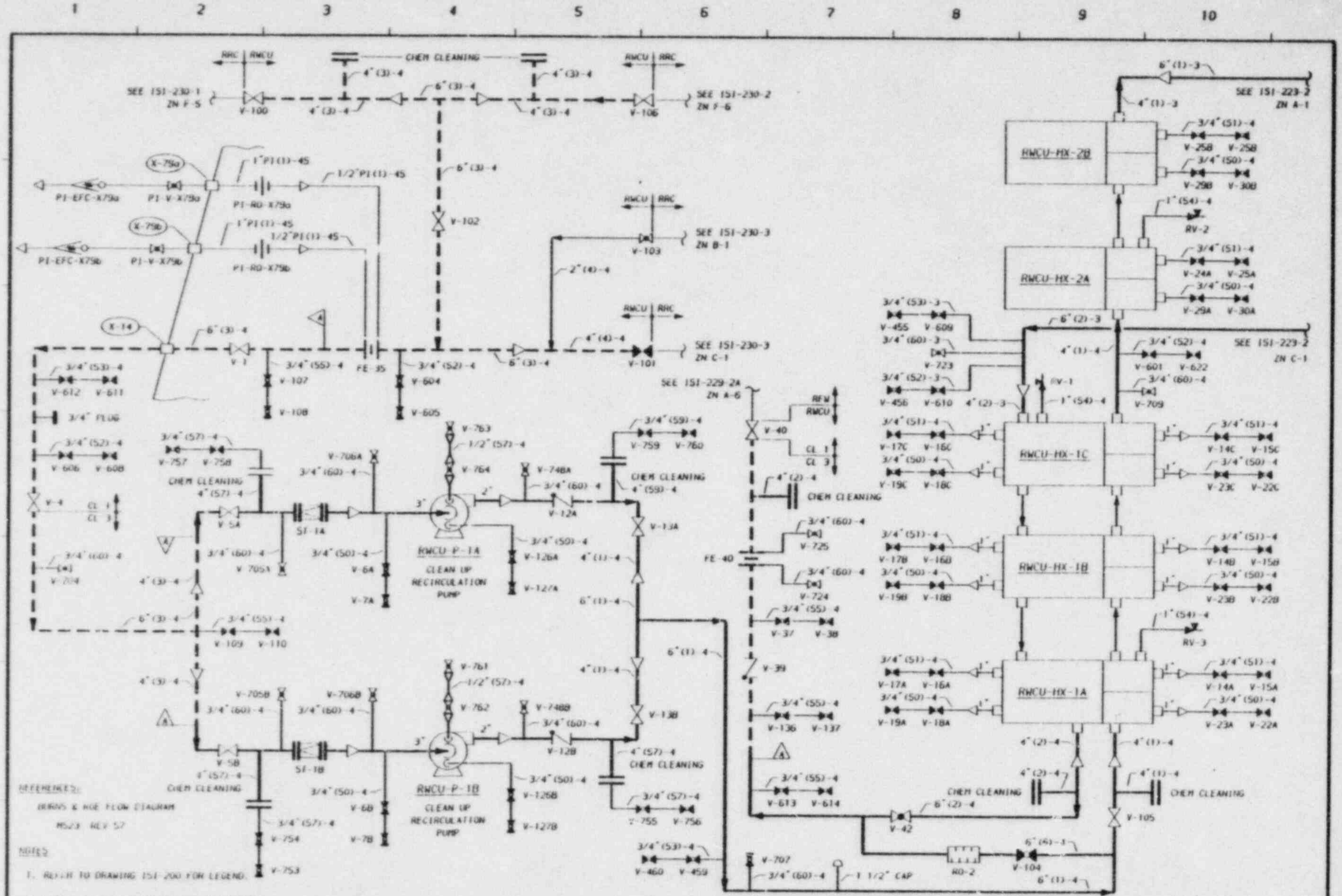
Notes: 1) RWCU piping and components are Class 1 or Class 3.

2) Class 3 RWCU is not included in Table IWD-2500-1 and hence exempt for ISI.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BURNS & ROE FLOW DIAGRAM M523 REV 57

NOTES

1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.
3. PRESSURE TEST NOT REQUIRED ON CLASS 3 RWCU DURING ISI.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
2	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]

NO	DATE	REVISION	BY	CHKD	APVD
1	11-28-84	AUGMENTED ISI ADDED, GENERAL UPDATE, REDRAWN	K-McA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K-McA	TFH / DWP	DWP / LFB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH 10-6-78	DWP

ENGINEER D PORTER

DRAWN K-McANDREW

DATE 9-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

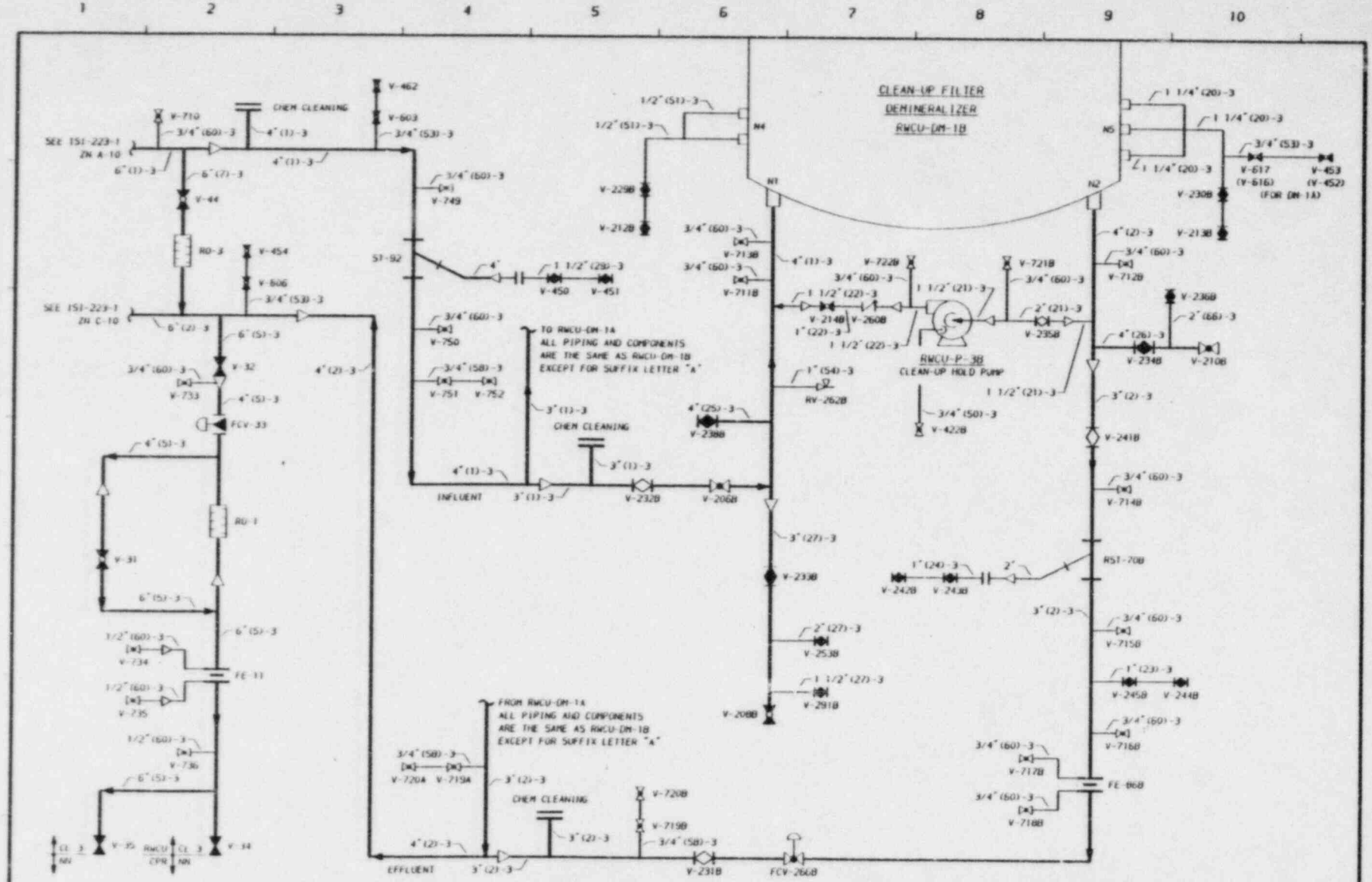
RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM REACTOR WATER CLEAN UP (RWCU)

DWG NO: ISI-223-1

REV 2


CLEAN-UP FILTER DEMINERALIZER RWCU-DM-1B
CHEM CLEANING
SEE ISI-223-1 ZN A-10
SEE ISI-223-1 ZN C-10
INFLUENT
EFFLUENT
TO RWCU-DM-1A ALL PIPING AND COMPONENTS ARE THE SAME AS RWCU-DM-1B EXCEPT FOR SUFFIX LETTER "A"
FROM RWCU-DM-1A ALL PIPING AND COMPONENTS ARE THE SAME AS RWCU-DM-1B EXCEPT FOR SUFFIX LETTER "A"
RWCU-P-3B CLEAN-UP HOLD PUMP
RWCU CPR
SEE ISI-223-1 FOR NOTES AND REFERENCES.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM REACTOR WATER CLEAN UP (RWCU)
ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 9-8-78
DWG NO. ISI-223-2
REV 2
1 11-28-84 ADMENDED ISI ADDED, GENERAL UPDATE, REDRAWN
0 1-9-79 ISSUED FOR USE
A 10-18-78 ISSUED FOR INFORMATION ONLY
2 ISSUED FOR ISI
NO DATE REVISION BY CHKD APVD

Date 04/16/85
Revision 0

Exemptions

ISI-224

SYSTEM: Standby Service Water (SW)

EXEMPTIONS APPLIED:

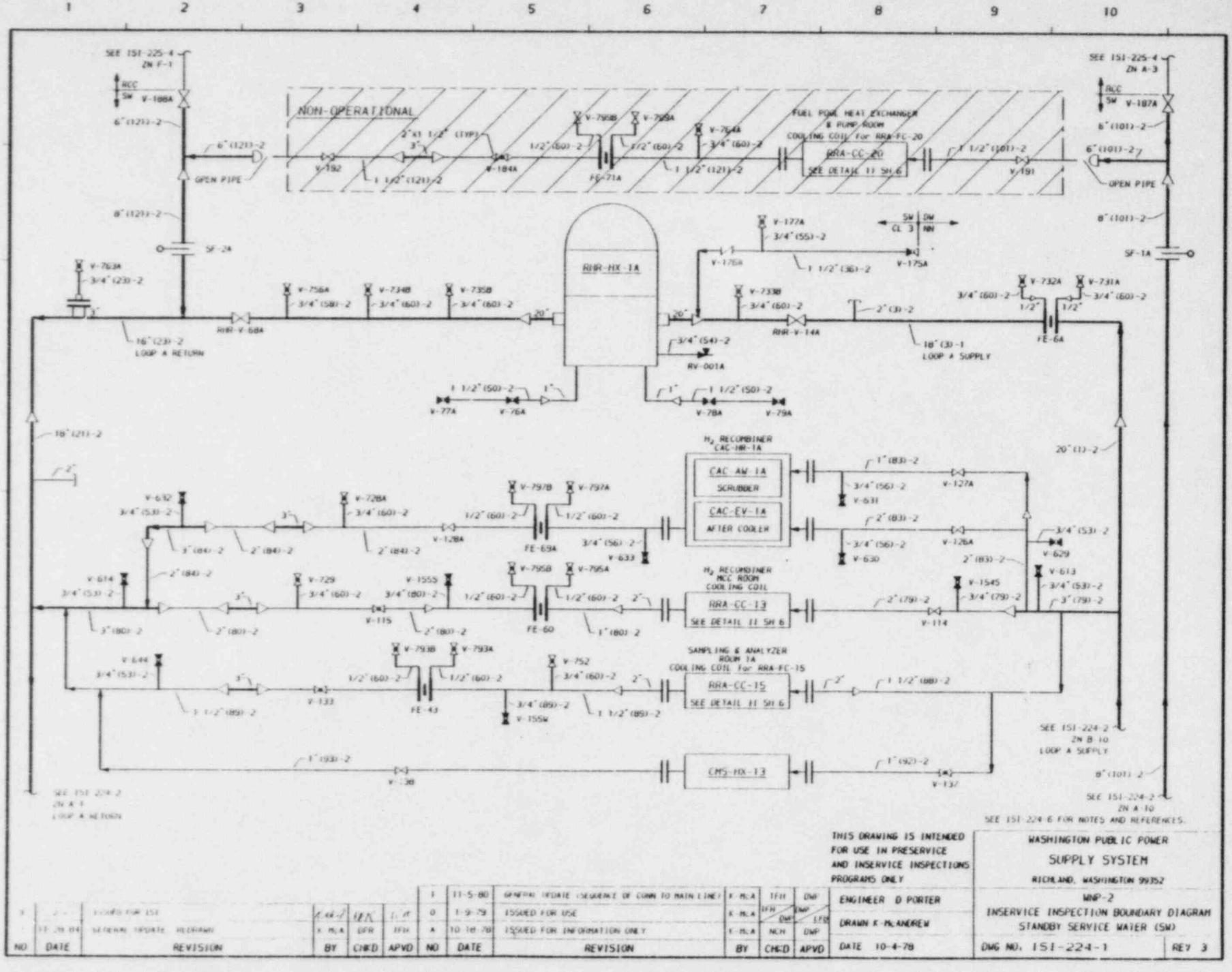
IWB-1220(a)	N/A
(b)(1)	N/A
(b)(2)	N/A
(c)	N/A
IWC-1220(a)[1]	N/A
(b)	N/A
(c)	N/A
IWC-1221(a)[2]	N/A
(b) N/A[3]	
(c)	N/A
(d) N/A[3]	
(e) N/A[3]	
(f)	N/A
IWC-1222(a)	N/A
(b)	N/A
(c)	N/A
(d)	N/A
IWD-1220.1	Yes
IWD-1220.2	No
Requests for Relief	None

Note: 1) SW System is Class 3 or non-nuclear only.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

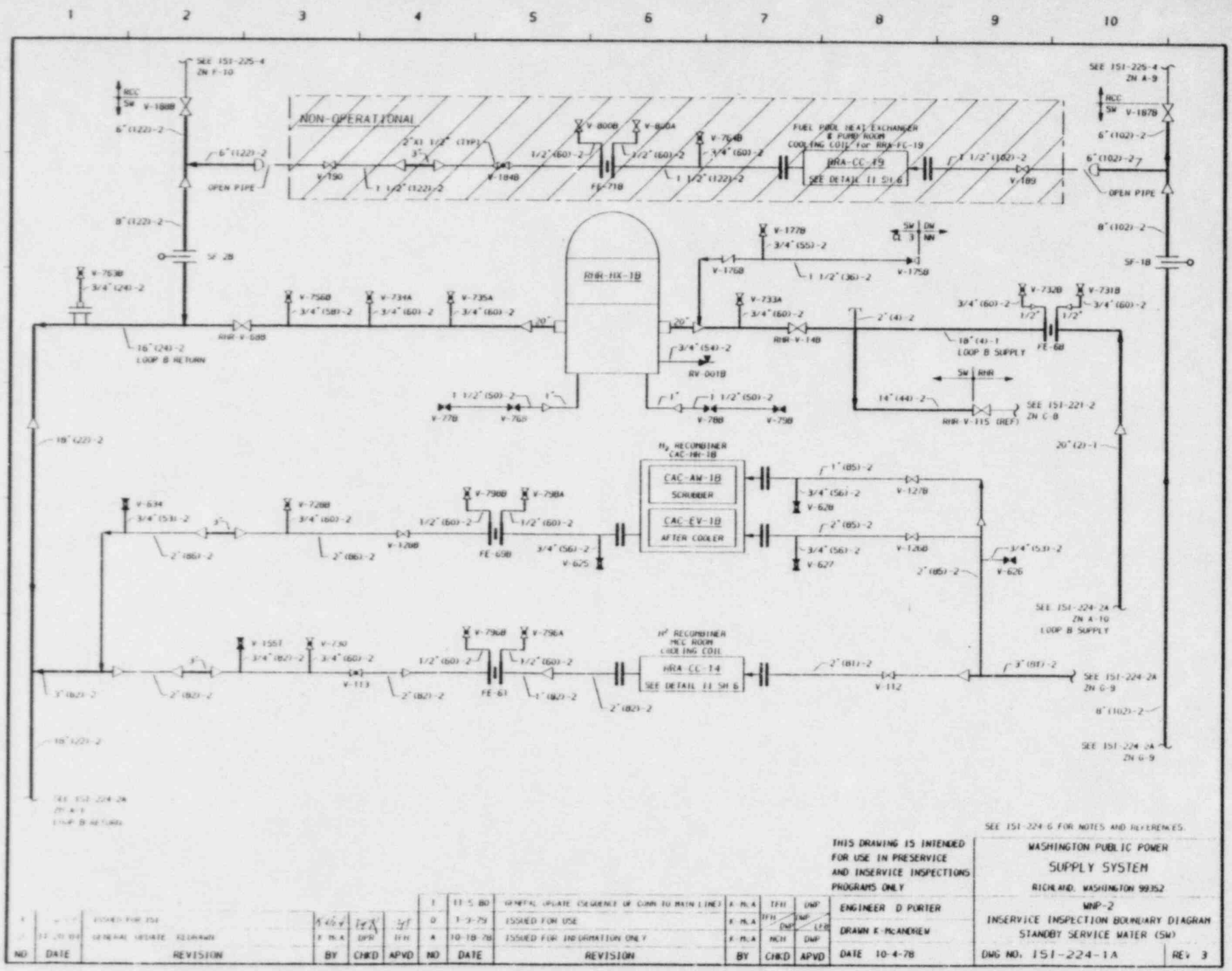
NO	DATE	REVISION	BY	CHKD	APVD
1	11-5-80	GENERAL UPDATE (SEQUENCE OF CORR TO MAIN LINE)	K. MLA	TFH	DNF
0	1-9-79	ISSUED FOR USE	K. MLA	TFH / DNF	DNF / TFH
A	10-16-78	ISSUED FOR INFORMATION ONLY	K. MLA	NCH	DNF

ENGINEER D PORTER
DRAWN K. MCANDREW
DATE 10-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)

DWG NO. 151-224-1 REV 3



NO	DATE	REVISION	BY	CHKD	APVD
3	11-5-80	GENERAL UPDATE SEQUENCE OF CONN TO MAIN LINE	K. MLA	TEH	DWP
2	11-20-79	GENERAL UPDATE REVISION	K. MLA	DPR	TEH
1	7-3-79	ISSUED FOR ISI	K. MLA	TEH	DWP
0	3-3-79	ISSUED FOR USE	K. MLA	DWP	LEB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K. MLA	MCH	DWP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K McANDREW

DATE 10-4-78

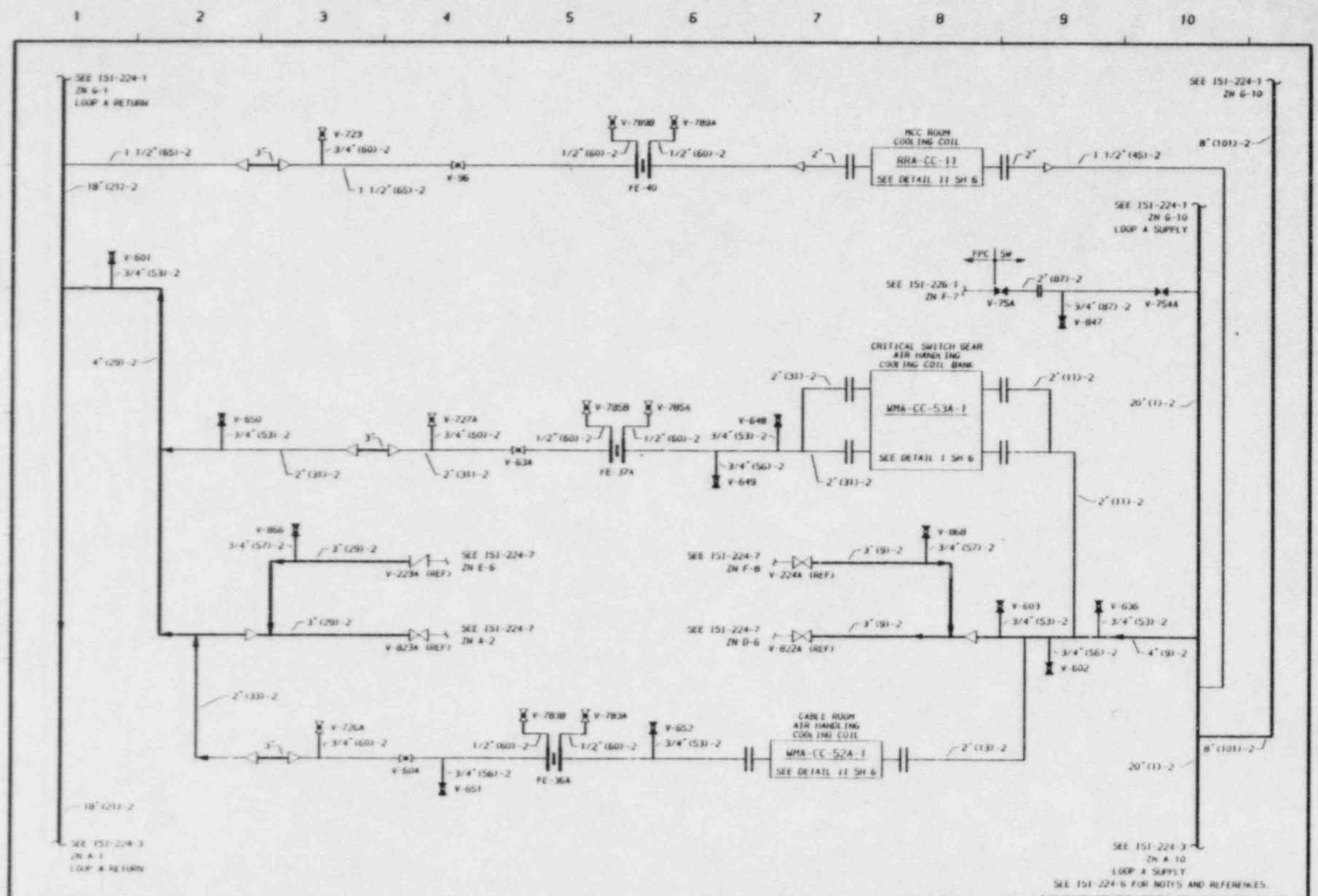
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM STANDBY SERVICE WATER (SW)

DWG NO. 151-224-1A REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
3	11-15-84	GENERAL UPDATE REDRAWN	K. McA	DNP	TFH
2	[illegible]	ISSUED FOR ISI	K. McA	DNP	TFH
1	11-5-80	GENERAL UPDATE (SEQUENCE OF CONN TO MAIN LINE)	K. McA	TFH	DNP
0	1-9-79	ISSUED FOR USE	K. McA	TFH DNP	DNP LFS
A	10-10-78	ISSUED FOR INFORMATION ONLY	K. McA	NCH	DNP

ENGINEER D PORTER

DRAWN K McANDREW

DATE 10-4-78

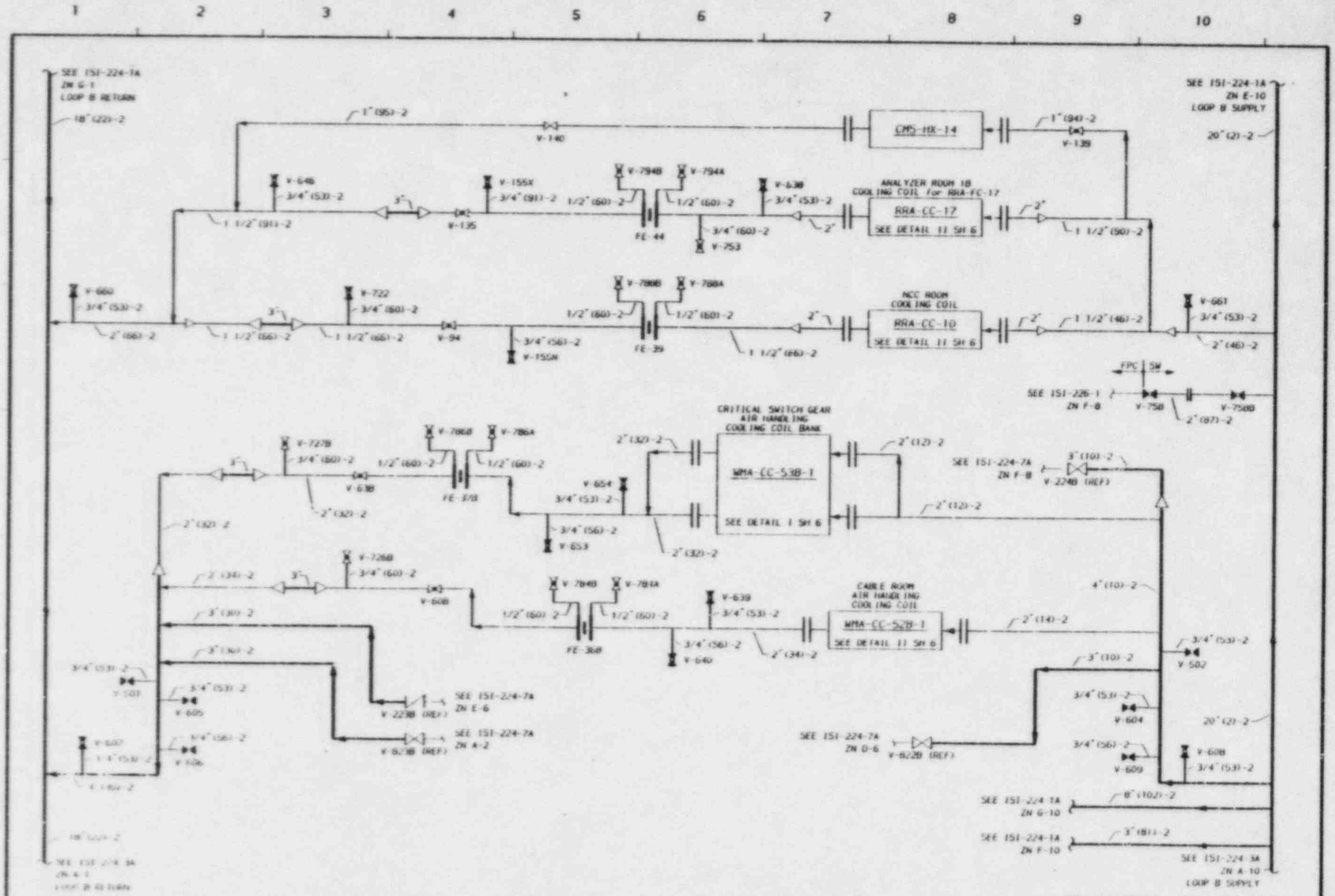
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-2 REV 3



SEE ISI-224-6 FOR NOTES AND REFERENCES

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

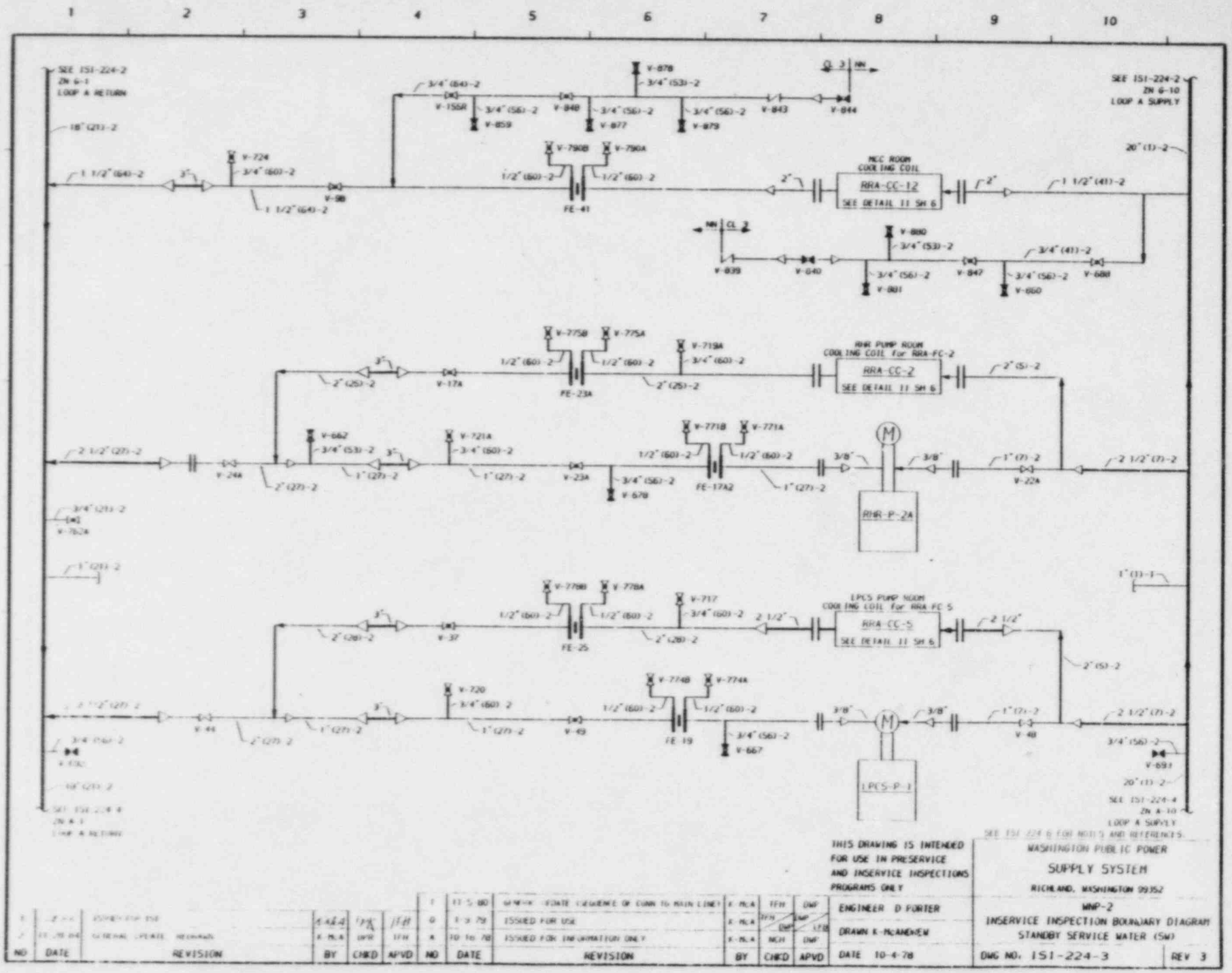
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 10-4-78

DWG NO. ISI-224-2A REV 3

NO	DATE	REVISION	BY	CHKD	APVD
1	11-5-80	GENERAL UPDATE (SEQUENCE OF CONN TO MAIN LINE)	K-McA	TFH	DWP
0	1-9-79	ISSUED FOR USE	K-McA	TFH	DWP
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DWP
NO	DATE	REVISION	BY	CHKD	APVD



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D FORTER

DRAWN K MCANENEW

DATE 10-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

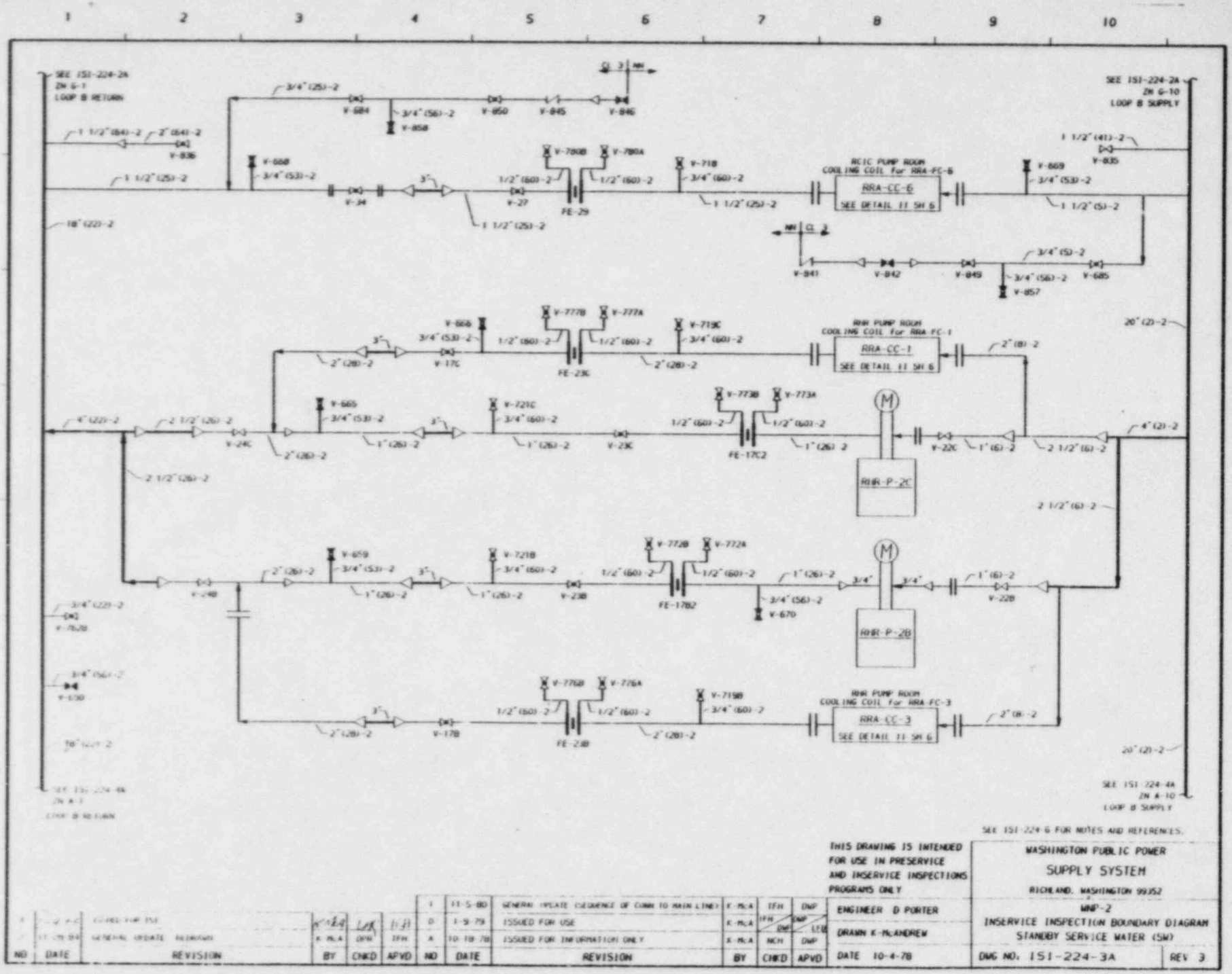
RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-3 REV 3

NO	DATE	REVISION	BY	CHKD	APVD
1	11-5-80	GENERAL UPDATE REVISION	K MCA	TFH	DNF
0	1-3-79	ISSUED FOR USE	K MCA	TFH	DNF
A	10 to 78	ISSUED FOR INFORMATION ONLY	K MCA	MCH	DNF



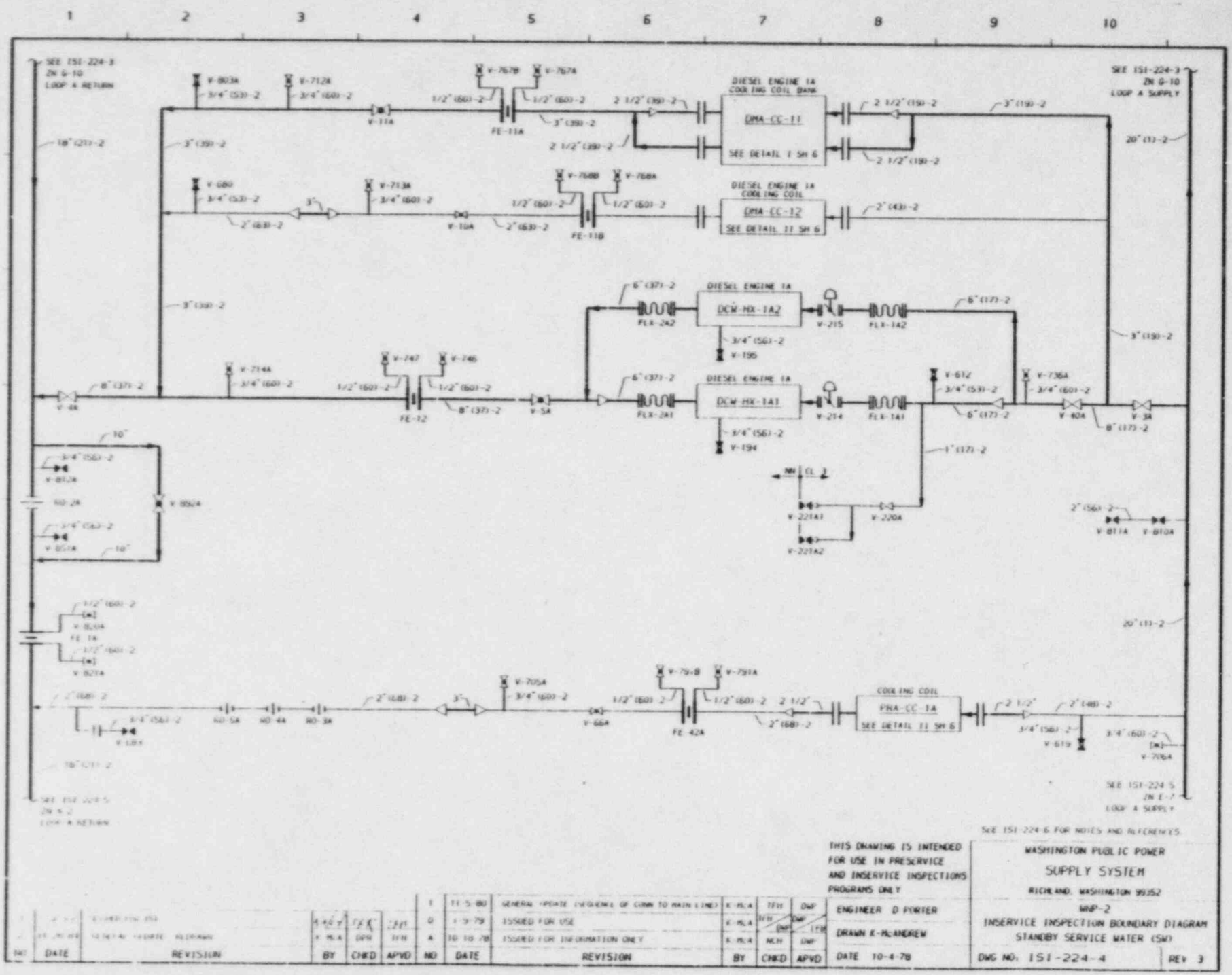
SEE ISI-224-6 FOR NOTES AND REFERENCES.

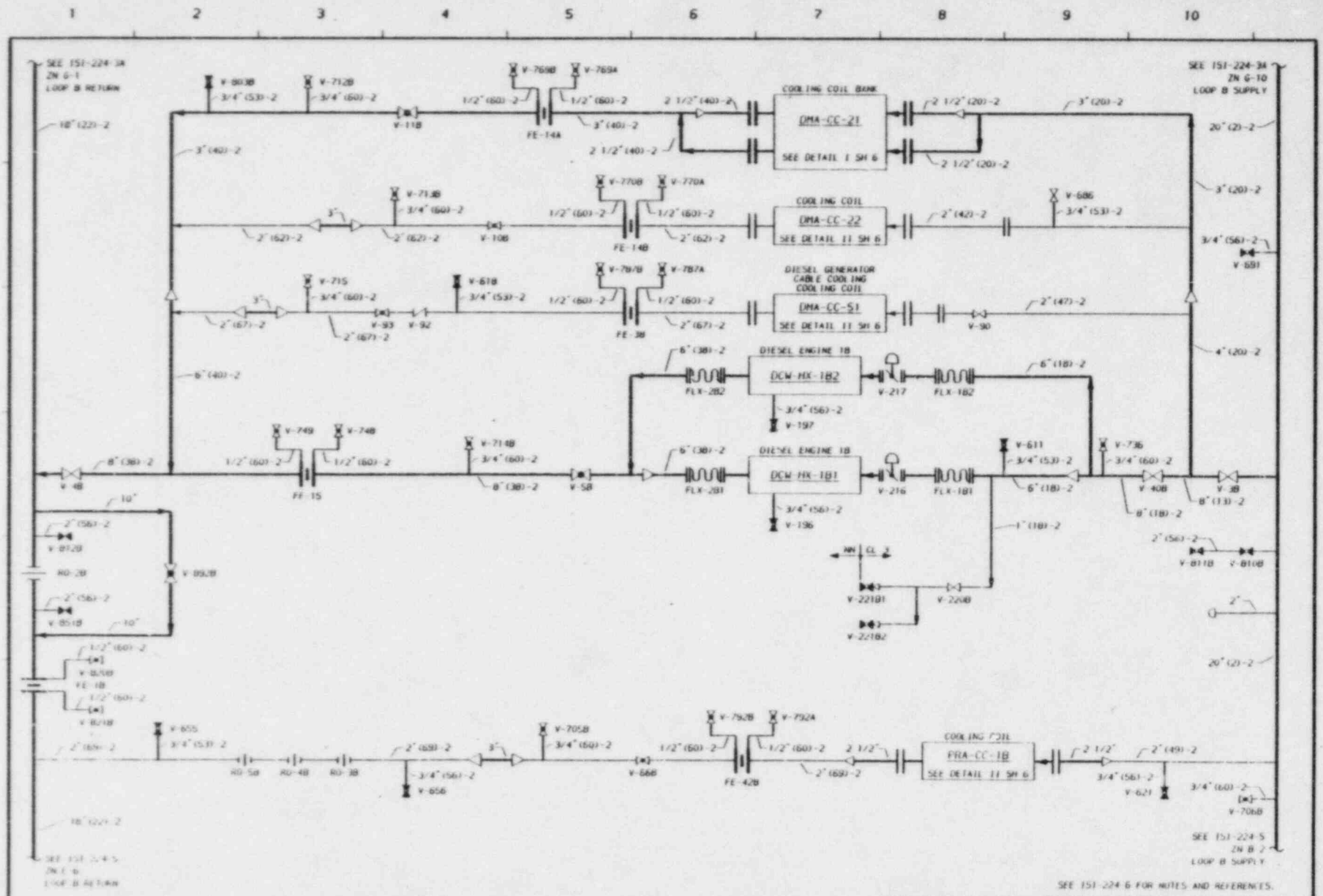
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
1	11-5-80	GENERAL UPDATE (RELOCATE CLEARANCE OF CONN TO MAIN LINE)	K MCA	IFH	DNP
0	1-9-79	ISSUED FOR USE	K MCA	IFH	DNP
A	10-19-78	ISSUED FOR INFORMATION ONLY	K MCA	NCH	DNP

ENGINEER D PORTER
DRAWN K MCANDREW
DATE 10-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)
DWG NO. ISI-224-3A REV 3


SEE ISI-224-3 ZN G-10 LOOP A RETURN
SEE ISI-224-3 ZN G-10 LOOP A SUPPLY
DIESEL ENGINE 1A COOLING COIL BANK
DMA-CC-11
SEE DETAIL I SH 6
DIESEL ENGINE 1A COOLING COIL
DMA-CC-12
SEE DETAIL II SH 6
DIESEL ENGINE 1A
DCW-HX-1A2
DCW-HX-1A1
COOLING COIL
FRA-CC-1A
SEE DETAIL II SH 6
V-803A
V-712A
V-11A
V-767B
V-767A
FE-11A
V-680
V-713A
V-10A
V-768B
V-768A
FE-11B
V-714A
V-4A
V-747
V-746
FE-12
V-5A
FLX-2A2
V-215
FLX-1A2
V-195
FLX-2A1
V-214
FLX-1A1
V-194
V-612
V-736A
V-40A
V-3A
V-852A
RO-2A
V-855A
V-851A
V-850A
FE-1A
V-852A
V-705A
V-66A
V-791B
V-791A
FE-42A
V-619
V-706A
V-221A1
V-220A
V-221A2
V-811A
V-810A
NH CL 2
SEE ISI-224-6 FOR NOTES AND REFERENCES.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 10-4-78
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)
DWG NO. ISI-224-4
REV 3
NO | DATE | REVISION | BY | CHKD | APVD
1 | 11-5-80 | GENERAL UPDATE (REVISION OF CONN TO MAIN LINE) | K-MCA | TFH | DWP
0 | 1-9-79 | ISSUED FOR USE | K-MCA | TFH | DWP
A | 10-10-78 | ISSUED FOR INFORMATION ONLY | K-MCA | MCH | DWP



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

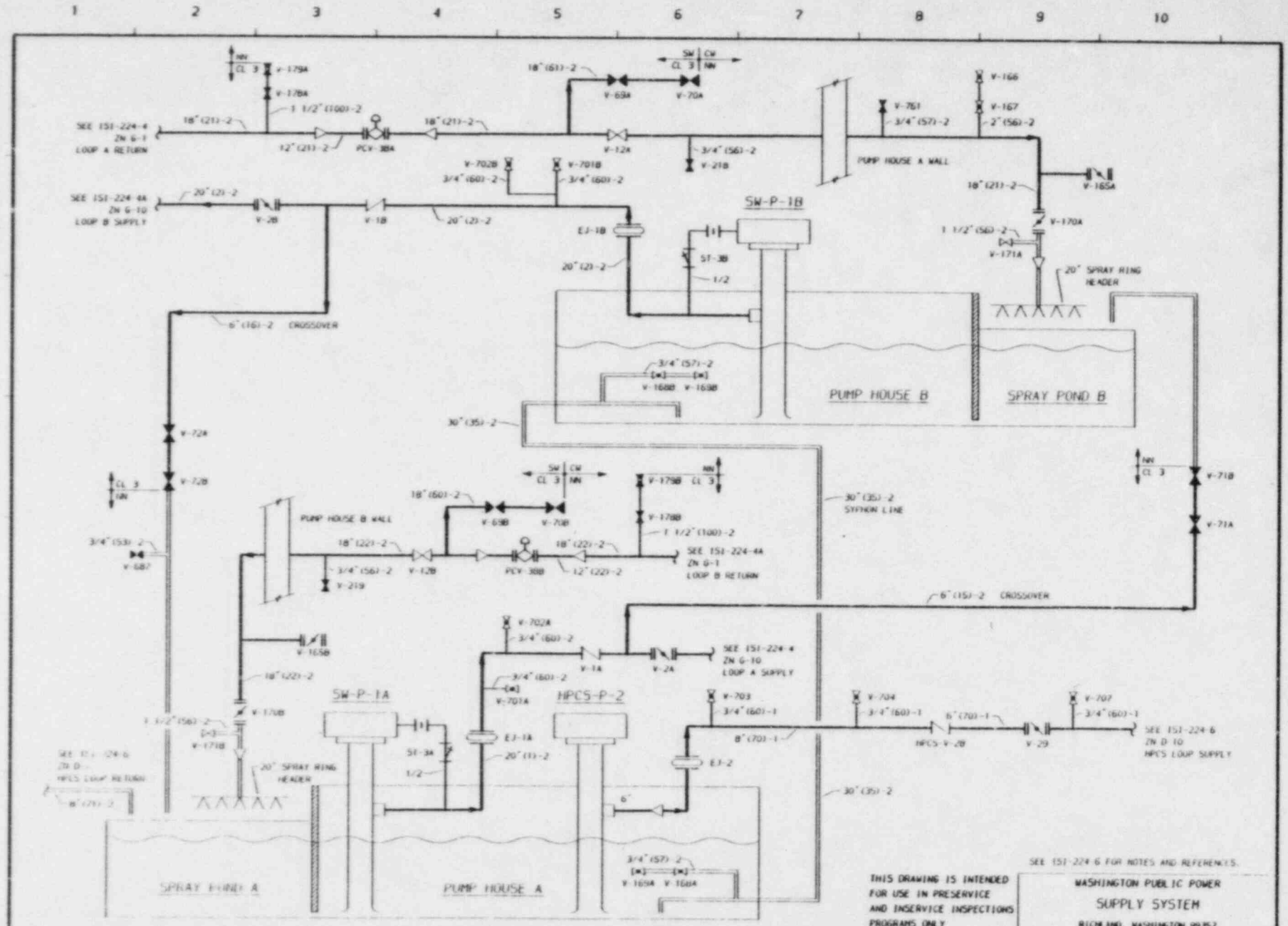
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 10-4-78

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-4A REV 3

NO	DATE	REVISION	BY	CHKD	APVD
1	11-5-80	SIMPLIFY UPDATE (SEQUENCE OF CONN TO MAIN LINE)	K MCA	TFH	DWP
0	1-9-79	ISSUED FOR USE	K MCA	TFH DWP	DWP LFH
A	10-18-78	ISSUED FOR INFORMATION ONLY	K MCA	MCH	DWP



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K-MCANDREW

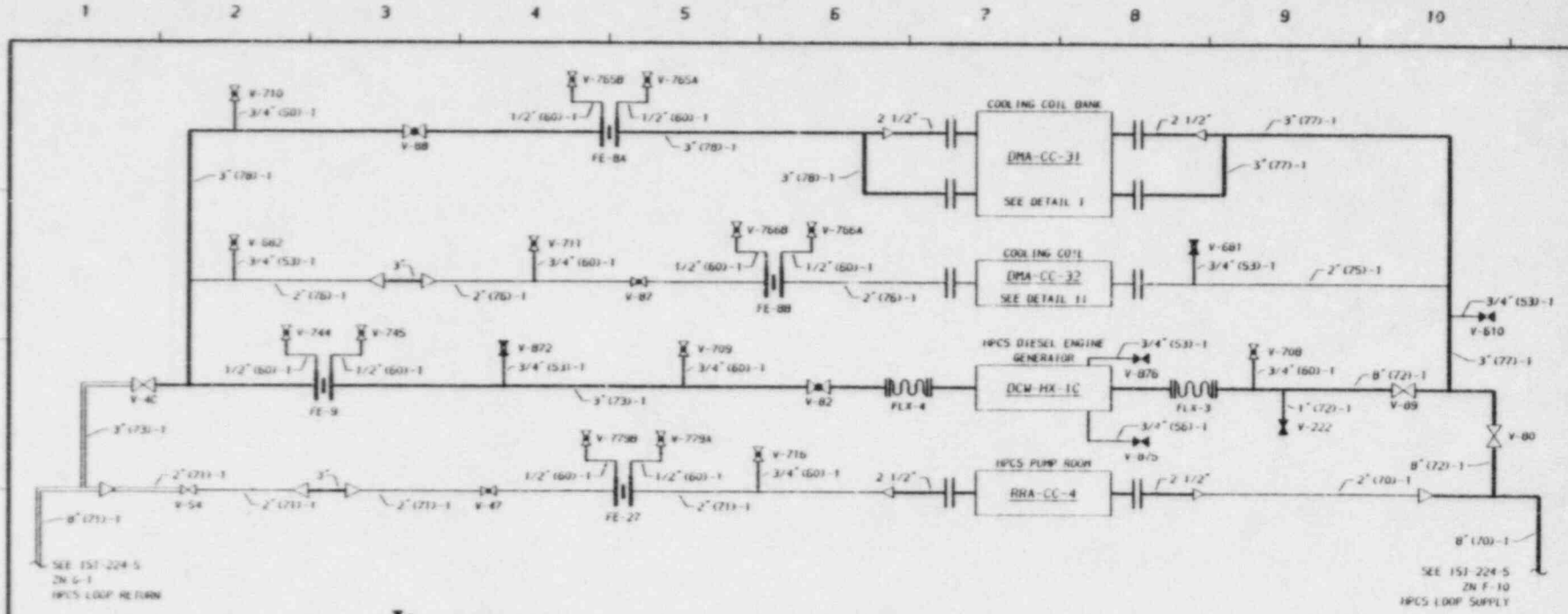
DATE 10-4-78

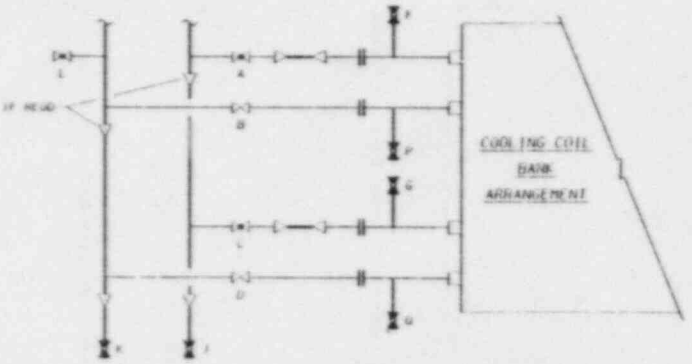
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-5 REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	J--	ISSUED FOR ISI	K-MCA	DPR	TFH
2	11-20-78	GENERAL UPDATE REVISION	K-MCA	DPR	TFH
1	11-5-80	GENERAL UPDATE (SEGMENT OF CONN TO MAIN LINE)	K-MCA	TFH	DWP
0	1-3-79	ISSUED FOR USE	K-MCA	TFH	DWP
A	10-10-78	ISSUED FOR INFORMATION ONLY	K-MCA	NCH	DWP

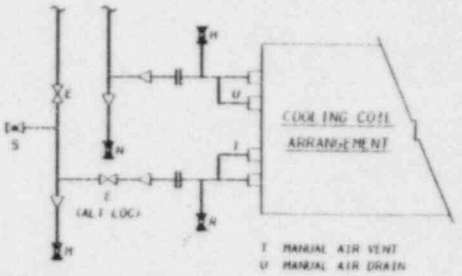




DETAIL I

VALVE LIST

COOLING COIL BANK NUMBER	A	B	C	D	SIZE	F 3/8"	G 3/8"	H 3/4"	J 3/4"	K 3/4"	P 3/8"	Q 3/8"
DMA-CC-31	100	101	102	103	2 1/2"	141	142	143	144	737A	157	158
DMA-CC-32	1044	1054	1064	1074	2 1/2"	1454	1464	1474	1484	737B	1598	1608
DMA-CC-21	1048	1058	1068	1078	2 1/2"	1458	1468	1478	1488	737C	1598	1608
WMA-CC-528-1	1088	1098	1108	1118	2"	1498	1508	1518	1528	737D	1618	1628
WMA-CC-528-1	1098	1098	1108	1118	2"	1498	1508	1518	1528	737E	1618	1628



VALVE LIST

COOLING COIL NUMBER	E	SIZE	H 3/8"	H 3/4"	N 3/4"	N 3/8"	S 3/4"
DMA-CC-12	8A	2"	153A	154A	155A		679
DMA-CC-22	8B	2"	153B	154B	155B	156B	
DMA-CC-32	8S	2"	153C	154C	155C	156C	
DMA-CC-51	90	2"		154D	155D		
RRA-CC-1	16C	2"		154E	155E		664
PRA-CC-14	65A	2"	153F	154F	155F		670
PRA-CC-18	65B	2"	153G	154G	155G		672
RRA-CC-2	16A	2"	153H	154H	155H		663
RRA-CC-3	16B	2"		154J	155J	156J	656
RRA-CC-4	46	2"	153K	154K	155K	156K	673
RRA-CC-5	36	2"	153L	154L	155L		
RRA-CC-6	26	1 1/2"	153M	154M	155M		
RRA-CC-10	91	1 1/2"	153N	154N	155N	156N	
RRA-CC-11	95	1 1/2"	153P	154P	155P	156P	819
RRA-CC-12	97	1 1/2"	153R	154R		156R	
RRA-CC-13	114	2"	153S	154S	155S	156S	
RRA-CC-14	112	2"	153T	154T	155T	156T	
WMA-CC-527A-1	59A	2"	153U	154U	155U	156U	
WMA-CC-527B-1	59B	2"	153V	154V	155V	156V	
RRA-CC-15	132	1 1/2"	153W	154W	155W	156W	642
RRA-CC-17	134	1 1/2"	153X	154X	155X	156X	645
RRA-CC-19	185	1 1/2"	153Y	154Y	155Y	156Y	
RRA-CC-20	193	1 1/2"	153Z	154Z	155Z	156Z	

T	U
3/4"	3/4"
3/4"	3/4"
3/4"	3/4"
3/8"	3/8"
3/8"	3/8"

DETAIL II

REFERENCES:

DRAWING & ROE FLOW DIAGRAMS

M524 SH 1	REV 50
M524 SH 2	REV 50
M175	REV 4

NOTES

1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
X	[illegible]	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
J	11-29-79	GENERAL UPDATE RELEASE	K-MLA	DMB	TFH
1	11-5-80	GENERAL UPDATE (SEQUENCE OF CONN TO MAIN LINE)	K-MLA	TFH	DMF
0	1-9-79	ISSUED FOR USE	K-MLA	TFH	DMF
A	10-10-78	ISSUED FOR INFORMATION ONLY	K-MLA	NCH	DMF

ENGINEER D PORTER

DRAWN K-MCANDREW

DATE 10-4-78

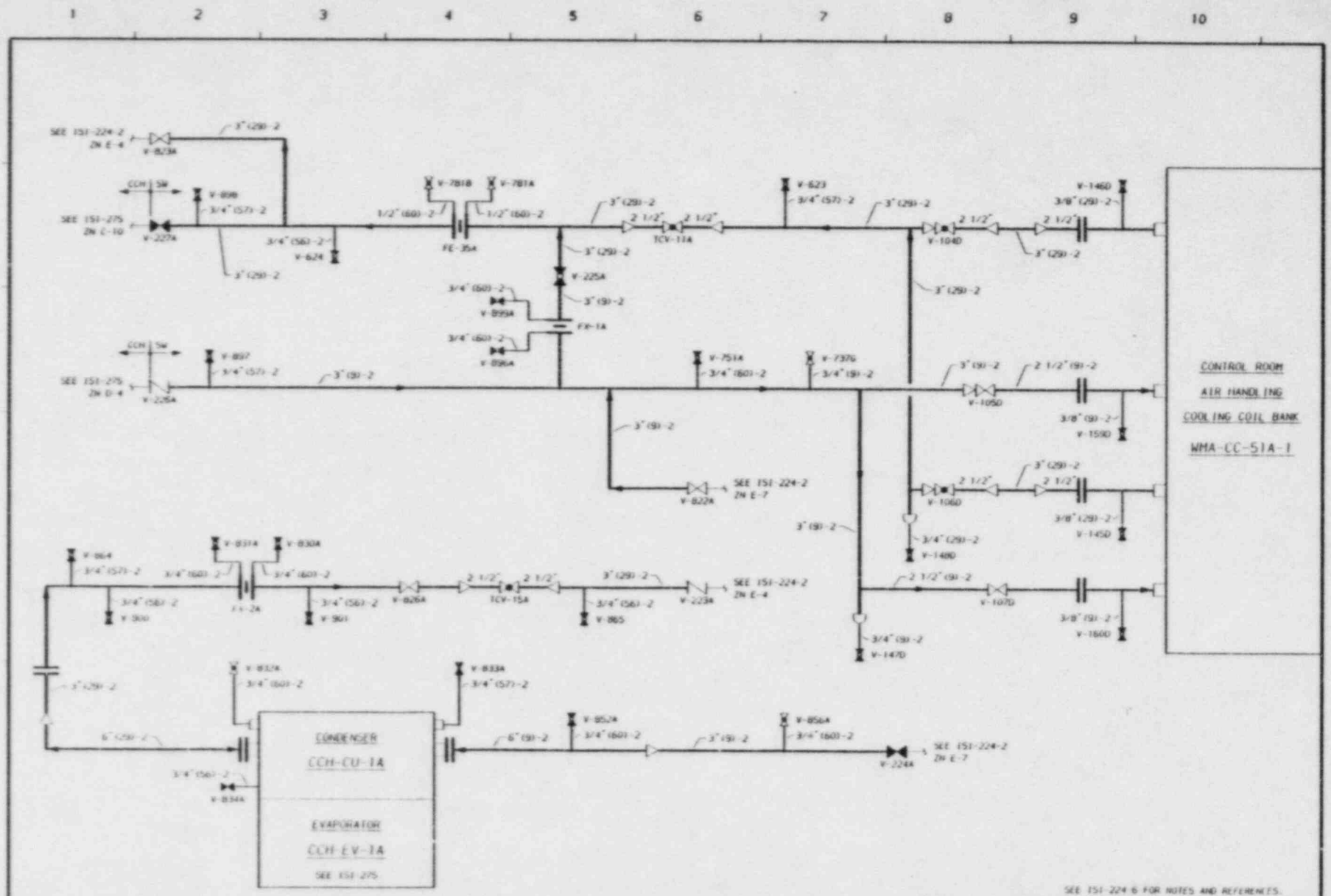
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

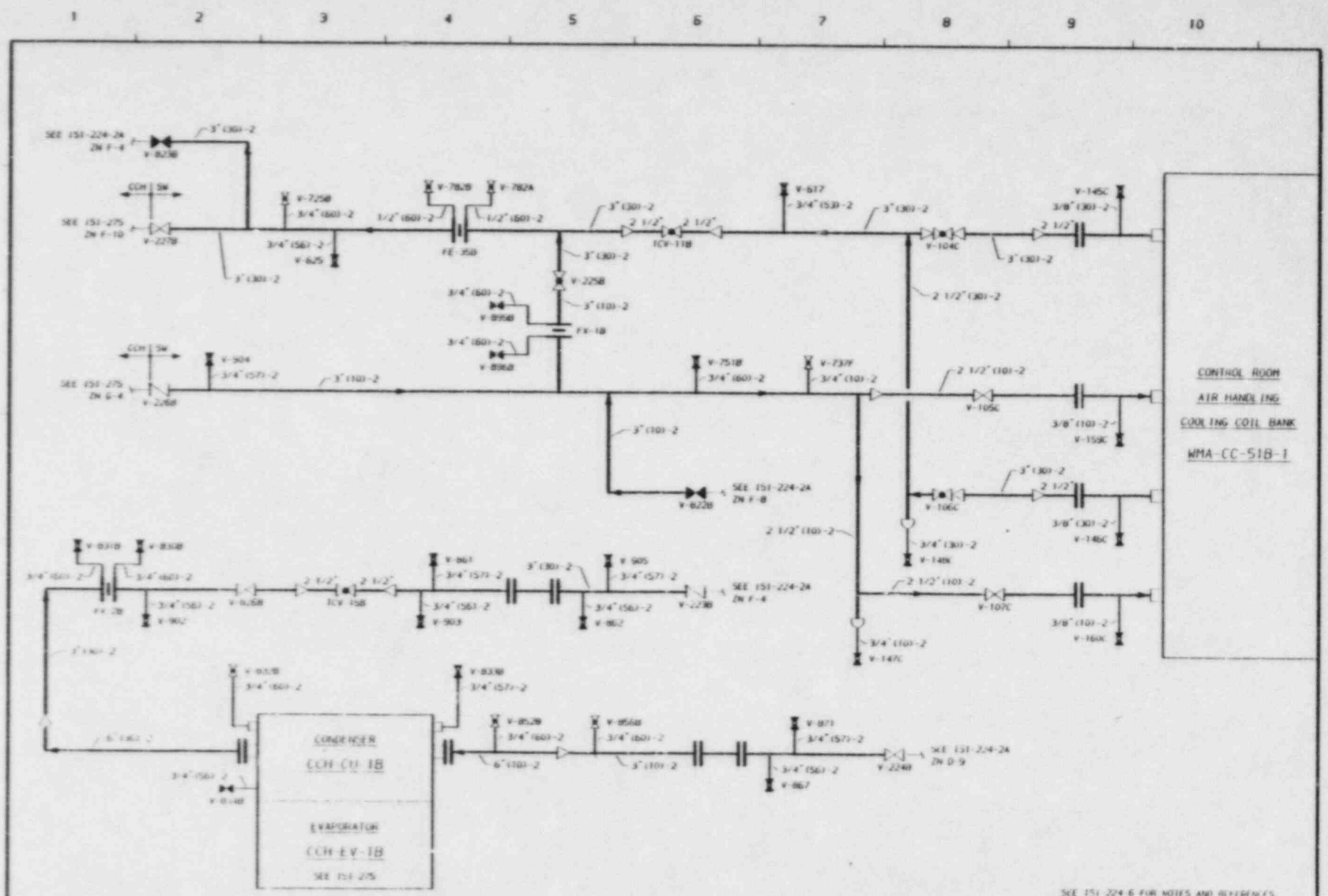
RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-6 REV 3


CONTROL ROOM
AIR HANDLING
COOLING COIL BANK
WMA-CC-51A-1
CONDENSER
CCH-CU-1A
EVAPORATOR
CCH-EV-1A
SEE ISI-275
SEE ISI-224-2 ZN E-4
SEE ISI-224-2 ZN E-7
SEE ISI-275 ZN C-10
SEE ISI-275 ZN D-4
V-823A
V-227A
V-225A
V-822A
V-224A
V-834A
V-897
V-898
V-899
V-624
V-623
V-751A
V-737G
V-1460
V-1050
V-1590
V-1060
V-1450
V-1400
V-1070
V-1600
V-1470
V-864
V-300
V-831A
V-830A
V-901
V-826A
V-865
V-223A
V-833A
V-852A
V-856A
FE-35A
FX-1A
TCV-11A
TCV-15A
V-781B
V-781A
V-895A
V-896A
CCH
SW
SEE ISI-224-6 FOR NOTES AND REFERENCES.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
ENGINEER K-MCANDREW
DRAWN K-MCANDREW
DATE 7-23-84
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
STANDBY SERVICE WATER (SW)
DWG NO. ISI-224-7
REV 1
NO | DATE | REVISION | BY | CHKD | APVD
1 | 7-24-84 | ISSUED FOR ISI | K-MCA | DFR | TFH
0 | 11-29-84 | ISSUED FOR USE | K-MCA | DFR | TFH



SEE ISI-224-6 FOR NOTES AND REFERENCES.

NO	DATE	REVISION	BY	CHKD	APVD
1	7/24/84	ISSUED FOR ISI	K.M.A	DPN	TH
0	11-30-84	ISSUED FOR USE	K.M.A	DPN	TH

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER K-MCANDREW

DRAWN K-MCANDREW

DATE 7-23-84

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM STANDBY SERVICE WATER (SW)

DWG NO. ISI-224-7A REV 1

Date 04/16/85
Revision 0

Exemptions

ISI-225

SYSTEM: Reactor Closed Cooling (RCC)

EXEMPTIONS APPLIED:

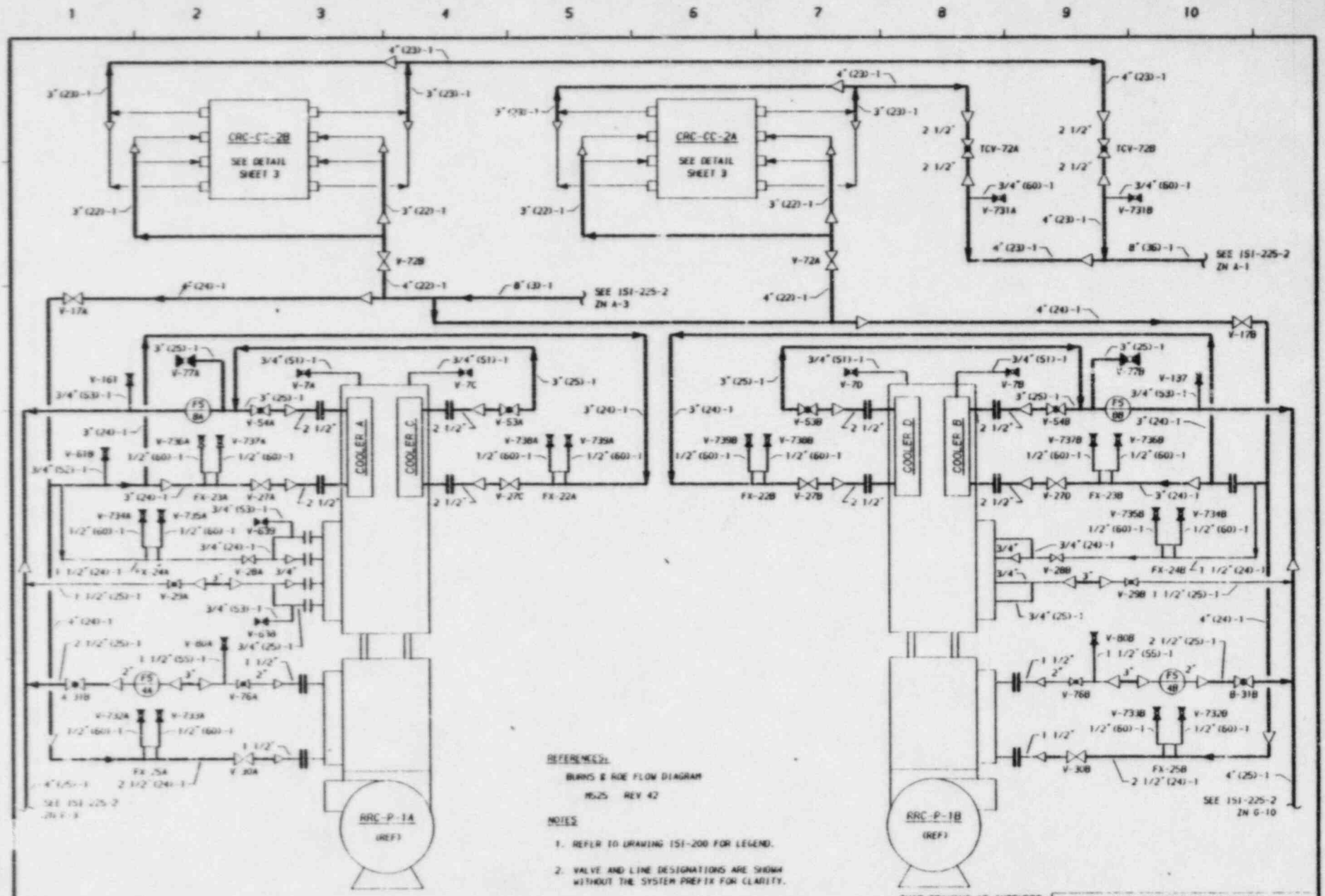
IWB-1220(a)	N/A	
(b)(1)	N/A	
(b)(2)	N/A	
(c)	N/A	
IWC-1220(a)[1]	No	
(b)	Yes	At containment penetration
(c)	Yes	At containment penetration
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	
(b)	Yes	Piping between isolation valves at containment
(c)	Yes	penetration
(d)	No	
IWD-1220.1	Yes	
IWD-1220.2	No	
Requests for Relief	None	

Note: 1) RCC is Class 3 or non-nuclear except for containment penetration which is Class 2.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BURNS & ROE FLOW DIAGRAM

M625 REV 42

NOTES

1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.
3. ALL PIPING THIS SYSTEM, EXCEPT AS NOTED ON ISI-225-2, IS CLASS 3.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
1	11-20-84	GENERAL UPDATE REDRAWN	K McA	DPR	TFH
0	1-3-79	ISSUED FOR USE	K McA	TFH / DMP	DMP / LEB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K McA	NCH	DMP

ENGINEER D PORTER

DRAWN K McANDREW

DATE 9-26-78

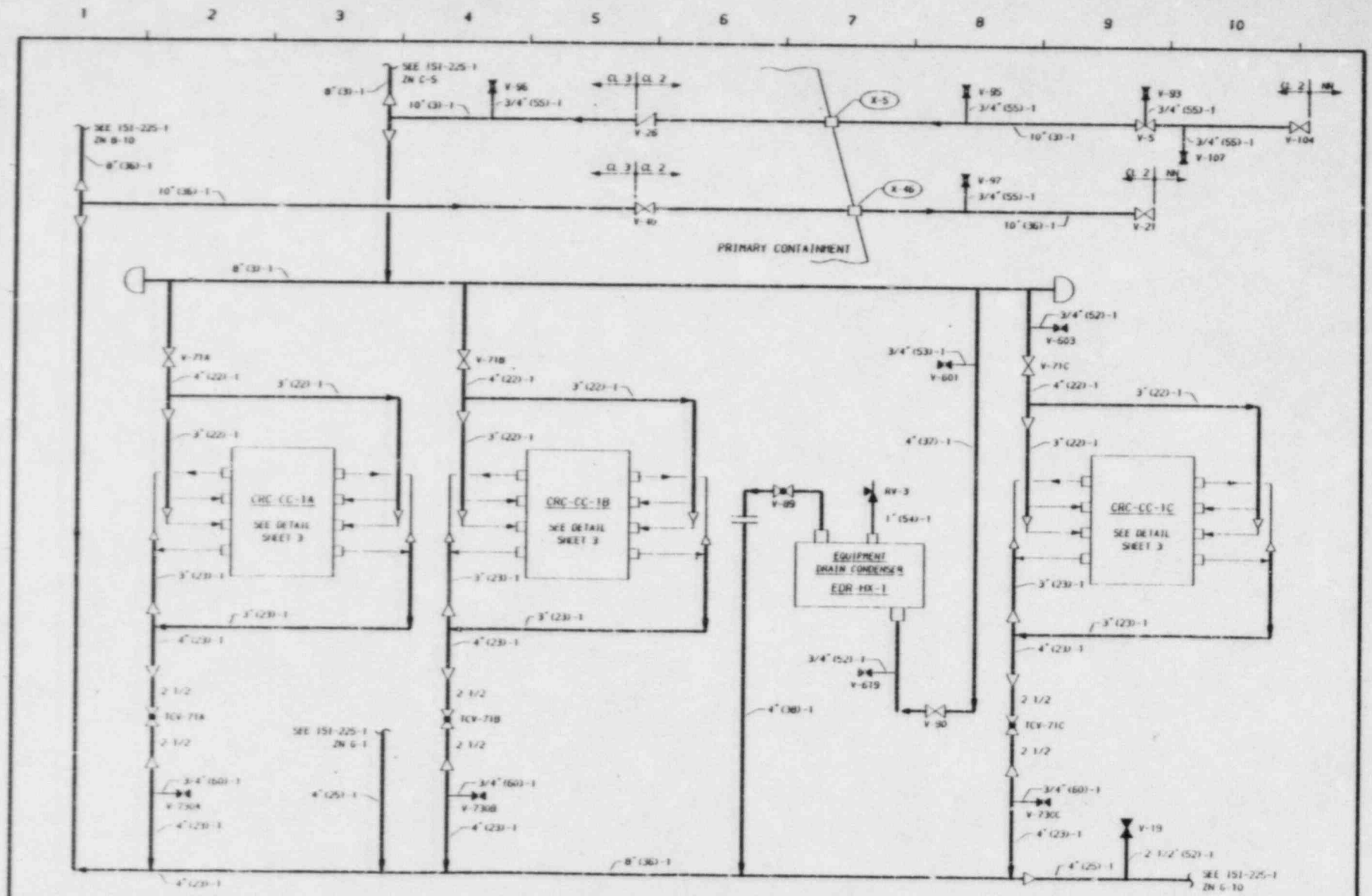
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM REACTOR CLOSED COOLING (RCC)

DWG NO. ISI-225-1 REV 2



SEE ISI-225-1 FOR NOTES AND REFERENCES.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

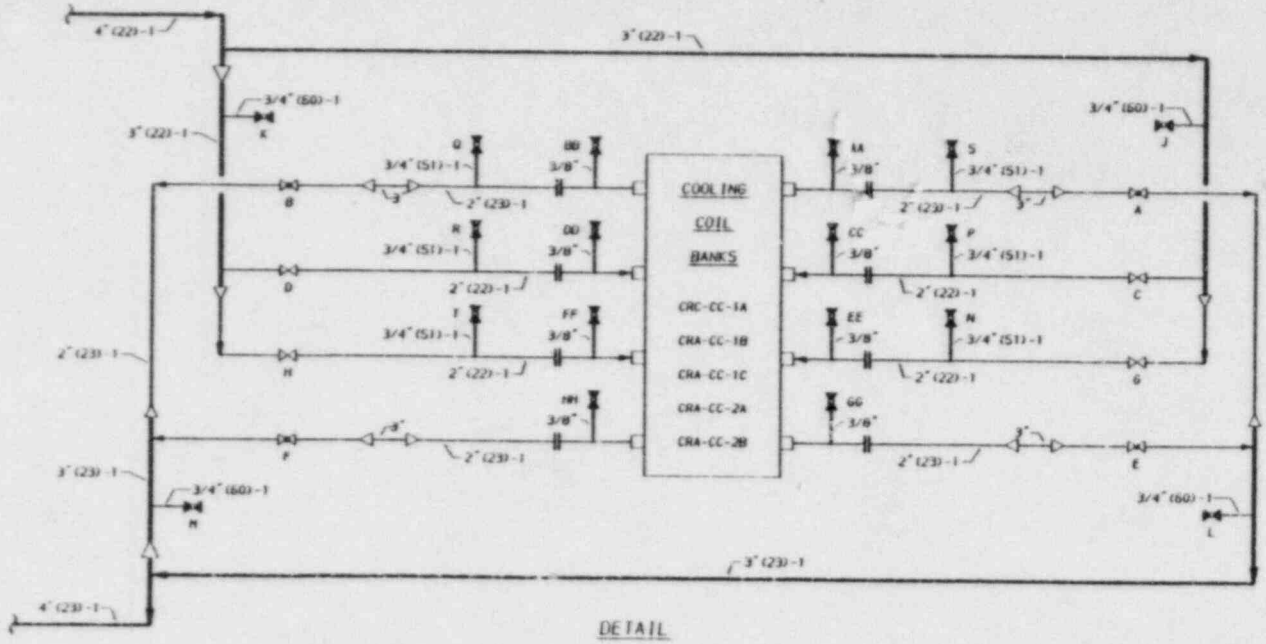
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 9-26-78

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR CLOSED COOLING (RCC)

DWG NO. ISI-225-2 REV 2

NO	DATE	REVISION	BY	CHKD	APVD
1	11-28-84	GENERAL UPDATE ALGRAM	K-MCA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K-MCA	TFH	DMP
A	10-13-78	ISSUED FOR INFORMATION ONLY	K-MCA	MCH	DMP



DETAIL

TYPICAL DETAIL FOR COOLING COIL BANKS
(SEE TABLE FOR TAG NUMBERS)

COOLING COIL BANK NUMBER	VALVE TAG NUMBERS																								
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	AA	BB	CC	DD	EE	FF	GG	HH
CRA-CC-1A	81A	82A	83A	84A	85A	86A	87A	88A	769A	770A	771A	772A	——	628	630	631	629	——	120A	121A	122A	123A	124A	125A	126A	127A
CRA-CC-1B	81B	82B	83B	84B	85B	86B	87B	88B	769B	770B	771B	772B	——	624	625	623	627	——	120B	121B	122B	123B	124B	125B	126B	127B
CRA-CC-1C	81C	82C	83C	84C	85C	86C	87C	88C	769C	770C	771C	772C	——	622	621	620	625	——	120C	121C	122C	123C	124C	125C	126C	127C
CRA-CC-2A	81D	82D	83D	84D	85D	86D	87D	88D	769D	770D	771D	772D	——	636	——	637	——	——	120D	121D	122D	123D	124D	125D	126D	127D
CRA-CC-2B	81E	82E	83E	84E	85E	86E	87E	88E	769E	770E	771E	——	——	——	——	——	——	——	120E	121E	122E	123E	124E	125E	126E	127E

TABLE

SEE 1S1-225-1 FOR NOTES AND REFERENCES.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

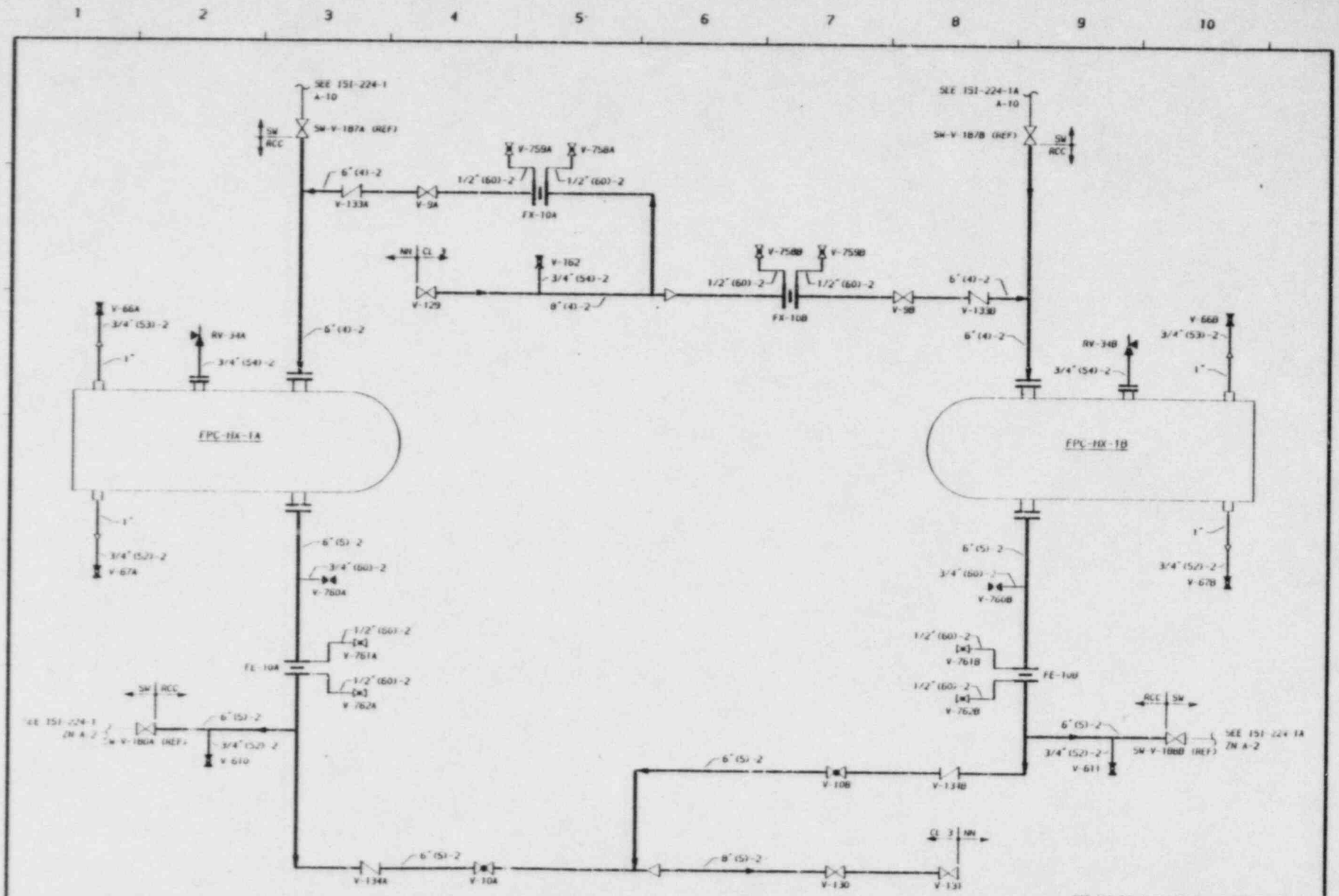
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR CLOSED COOLING (RCC)

DWG NO. 1S1-225-3 REV 2

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 9-26-78

NO	DATE	REVISION	BY	CHKD	APVD
		ISSUED FOR 1SI			
1	11-20-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K-McA	TFH / DNP	DNP / LTB
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DNP



SEE ISI-225-1 FOR NOTES AND REFERENCES

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
1	JAN-85	ISSUED FOR ISI	K McA	DPR	TFH
0	11-29-84	ISSUED FOR USE	K McA	DPR	TFH

ENGINEER K-McANDREW
DRAWN K-McANDREW
DATE 5-2-84

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR CLOSED COOLING (RCC)

DWG NO. ISI-225-4 REV 1

Date 04/16/85
Revision 0

Exemptions

ISI-226

SYSTEM: Fuel Pool Cooling (FPC)

EXEMPTIONS APPLIED:

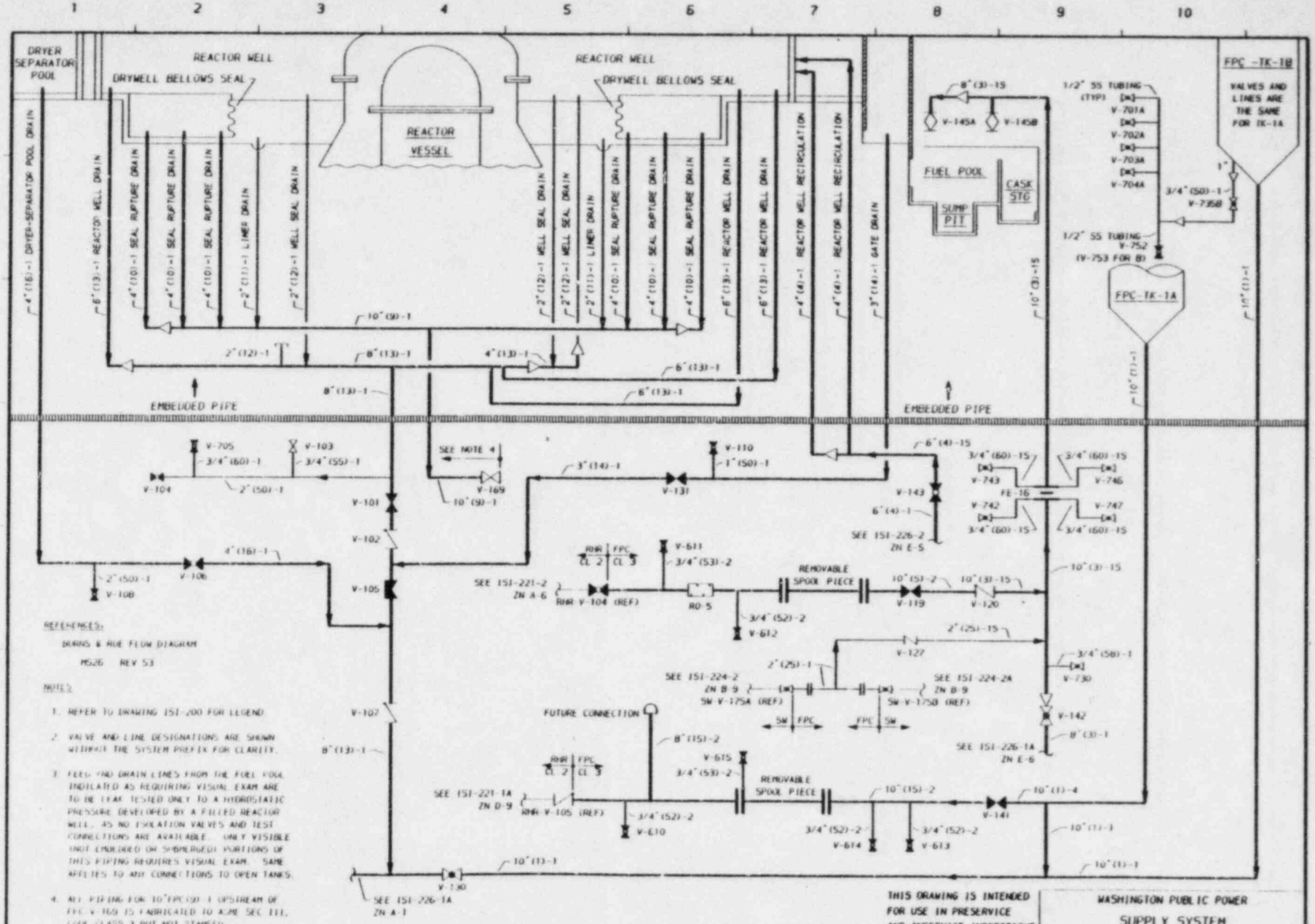
IWB-1220(a)	N/A	
(b)(1)	N/A	See Note 1
(b)(2)	N/A	
(c)	N/A	
IWC-1220(a)[1]	No	
(b)	Yes	FPC(7)-1, FPC(8)-1
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping $\leq$ 4NPS
(b)	Yes	
(c)	Yes	FPC(7)-1, FPC(8)-1
(d)	Yes	FPC(7)-1
IWD-1220.1	Yes	
IWD-1220.2	Yes	
Requests for Relief	None	

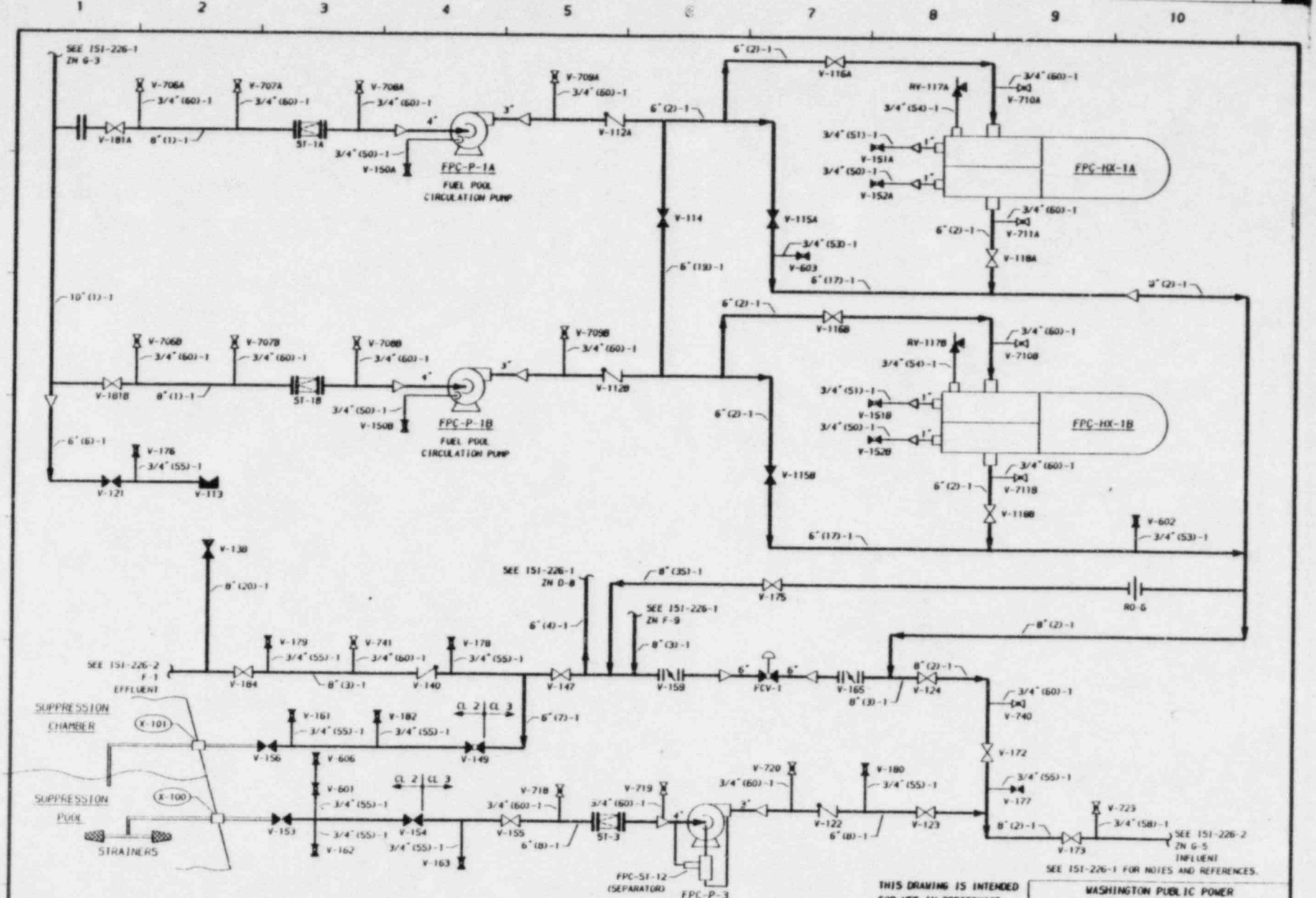
Note: 1) FPC system is Class 2 and Class 3 only.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR


DRYER SEPARATOR POOL
REACTOR WELL
DRYWELL BELLOWS SEAL
REACTOR VESSEL
REACTOR WELL
DRYWELL BELLOWS SEAL
FPC -TK-1B
VALVES AND LINES ARE THE SAME FOR TK-1A
FUEL POOL
SUMP PIT
CASK STG
FPC-TK-1A
EMBEDDED PIPE
EMBEDDED PIPE
SEE NOTE 4
REMOVABLE SPOOL PIECE
REMOVABLE SPOOL PIECE
FUTURE CONNECTION
SEE ISI-226-1A ZN A-1
SEE ISI-226-2 ZN E-5
SEE ISI-226-1A ZN E-6
SEE ISI-221-2 ZN A-6
SEE ISI-221-1A ZN D-9
SEE ISI-224-2 ZN B-9
SEE ISI-224-2A ZN B-9
REFERENCES:
BURNS & ROE FLOW DIAGRAM M526 REV 53
NOTES:
1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.
3. FEED AND DRAIN LINES FROM THE FUEL POOL INDICATED AS REQUIRING VISUAL EXAM ARE TO BE LEAK TESTED ONLY TO A HYDROSTATIC PRESSURE DEVELOPED BY A FILLED REACTOR WELL, AS NO ISOLATION VALVES AND TEST CONNECTIONS ARE AVAILABLE. ONLY VISIBLE UNINSULATED OR SUBMERGED PORTIONS OF THIS PIPING REQUIRES VISUAL EXAM. SAME APPLIES TO ANY CONNECTIONS TO OPEN TANKS.
4. ALL PIPING FOR 10"FPC(10)-1 UPSTREAM OF FPC V-169 IS FABRICATED TO ASME SEC III, CODE CLASS 3 BUT NOT STAMPED.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM FUEL POOL COOLING (FPC)
DWG NO. ISI-226-1
REV 3
ENGINEER D PORTER
DRAWN K-MCANDREW
DATE 9-20-78
NO | DATE | REVISION | BY | CHKD | APVD
3 | 11-20-84 | REVISED FOR ISI | K-MCA | DFP | TFH
2 | 11-20-84 | GENERAL UPDATE REDRAWN | K-MCA | DFP | TFH
1 | 7-17-79 | ADDED CI BRKS, CKGS ZNS B-4, D-5, E-5, F, & B | K-MCA | TFH | DWP
0 | 1-9-79 | ISSUED FOR USE | K-MCA | TFH | DWP
A | 10-18-78 | ISSUED FOR INFORMATION ONLY | K-MCA | MCH | DWP



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

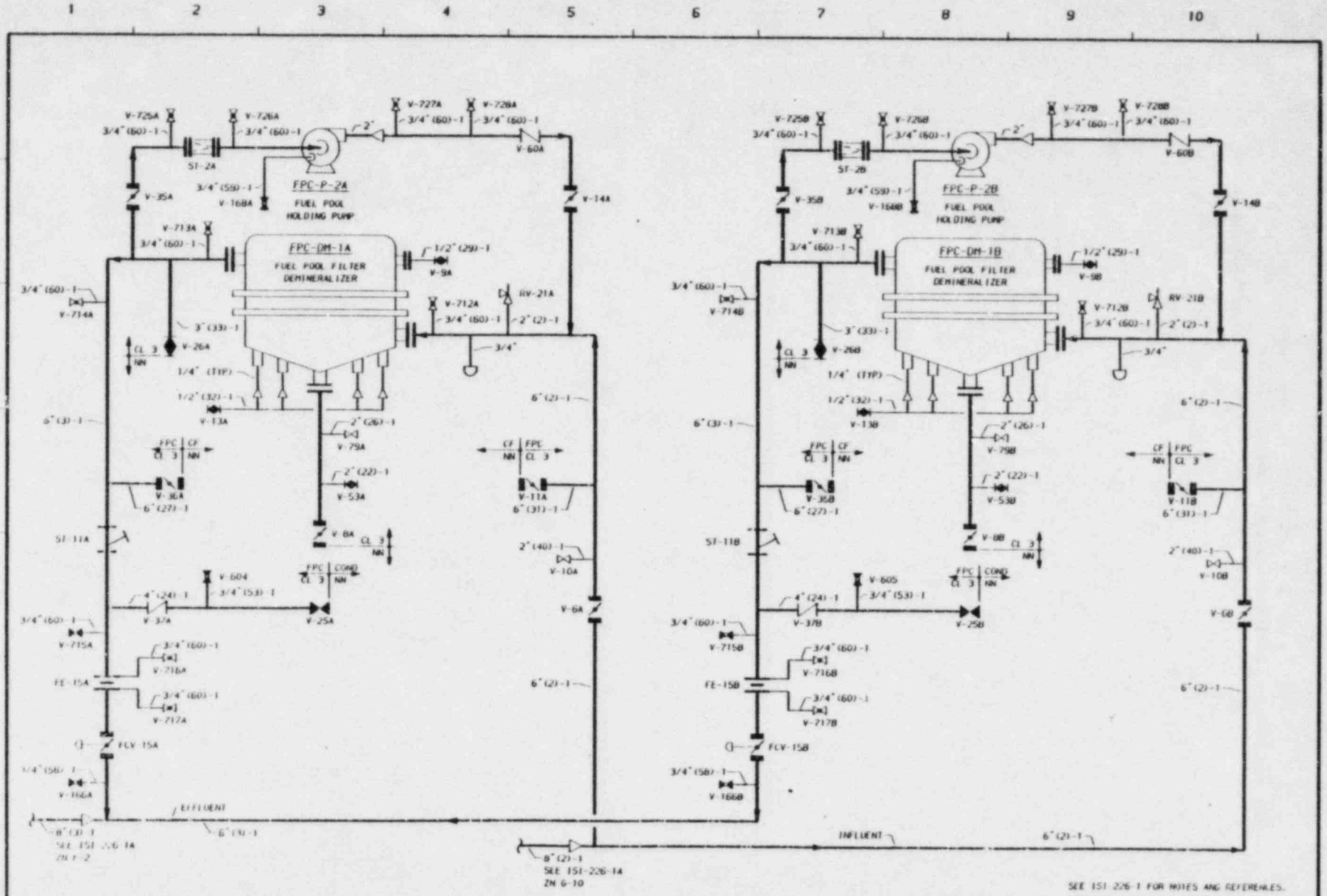
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 9-20-78

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
FUEL POOL COOLING (FPC)

DWG NO. 151-226-1A REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
2	11-20-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
1	7-17-79	ADDED CL BRKS, CHGS ZNS B-4, D-5, E-5, 7, & 8	K-McA	TFH	DWP
0	1-9-79	ISSUED FOR USE	K-McA	TFH	DWP
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DWP



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHK'D	APV'D
4	2-19-80	REVISED FOR ISI	K-McA	DPR	TFH
3	11-20-79	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
2	11-5-80	DELETED NON NUCLEAR LINES REDRAWN	K-McA	TFH	LFB
1	7-17-79	ADDED CI BRKS, CIRCS ZNS B-4, D-5, E-5, 7, & 8	K-McA	TFH	LFB
0	1-9-79	ISSUED FOR USE	K-McA	TFH	DNP
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DNP

ENGINEER D PORTER	WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DRAWN K-McANDREW	RICHLAND, WASHINGTON 99352
DATE 9-20-78	WNP-2
DWG NO. 151-226-2	INSERVICE INSPECTION BOUNDARY DIAGRAM FUEL POOL COOLING (FPC)
REV 4	

Date 04/16/85

Revision 0

Exemptions

ISI-228

SYSTEM: Control Rod Drive (CRD)

EXEMPTIONS APPLIED:

IWB-1220(a)	N/A	
(b)(1)	N/A	
(b)(2)	N/A	
(c)	N/A	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping $\leq$ 4NPS
(b)	Yes	
(c)	No	
(d)	No	
IWD-1220.1	N/A	
IWD-1220.2	N/A	
Request for Relief	None	

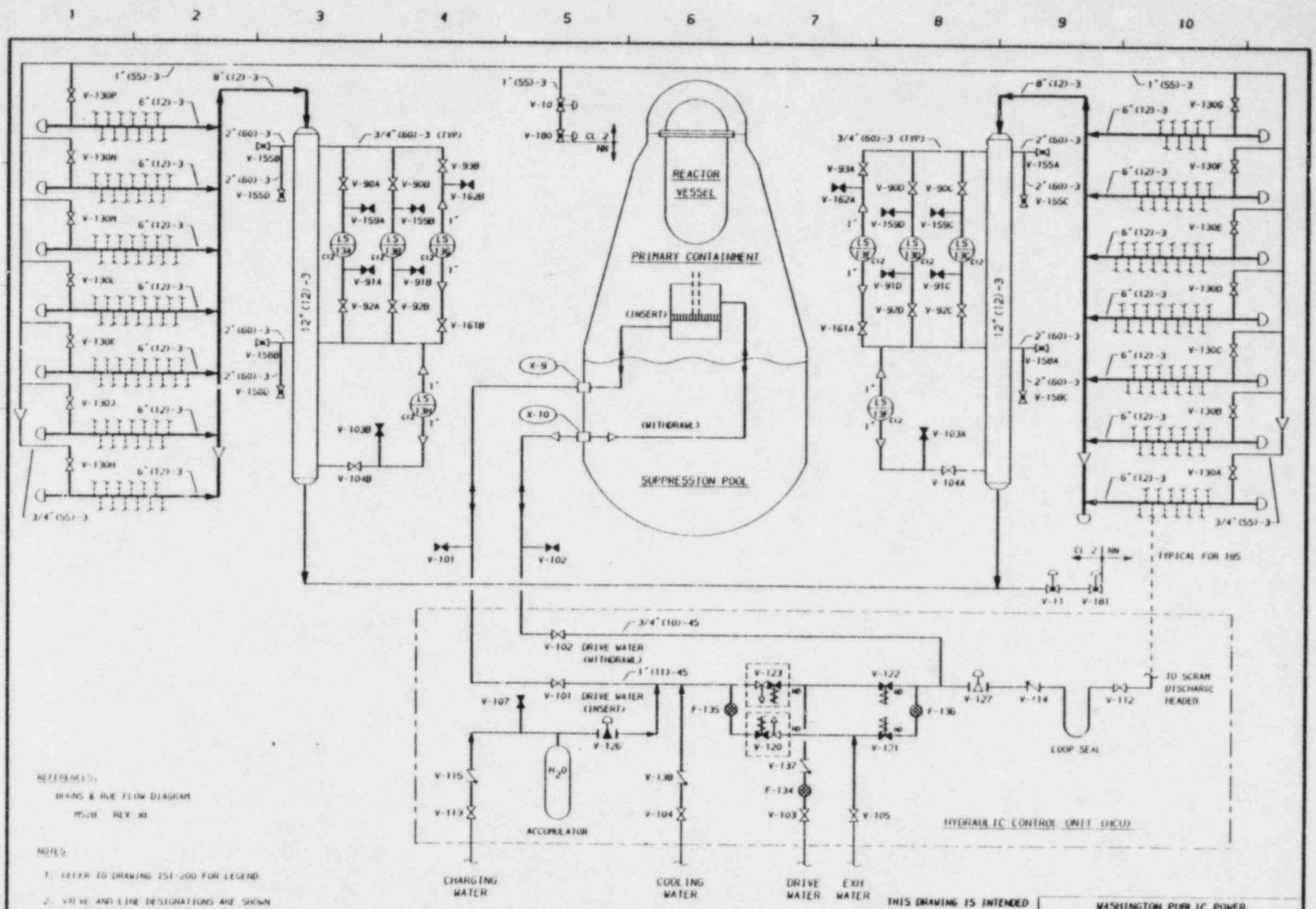
Notes: 1) CRD system is Class 2 or non-nuclear only.

2) Supply System will examine 10% of the welds in the scram discharge volume using a volumetric technique. Reference letter GO2-83-523, G. D. Bouchey to A. Schwencer, "PSI Summary Report Clarification" dated June 15, 1983.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BRAIDS & RVE FLOW DIAGRAM

M520 REV 30

NOTES:

1. REFER TO DRAWING 1S1-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
2	1-24-85	REVISED FOR ISI	K-McA	LEK	TFH
1	11-28-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
0	1-9-79	ISSUED FOR USE	K-McA	TFH	DWP
A	10-18-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DWP

ENGINEER D PORTER

DRAWN K-McANDREW

DATE 8-30-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM CONTROL ROD DRIVE (CRD)

DWG NO. 1S1-228 REV 2

Date 04/16/85

Revision 0

Exemptions

ISI-229

SYSTEM: Main Steam (MS) and Reactor Feedwater (RFW)

EXEMPTIONS APPLIED:

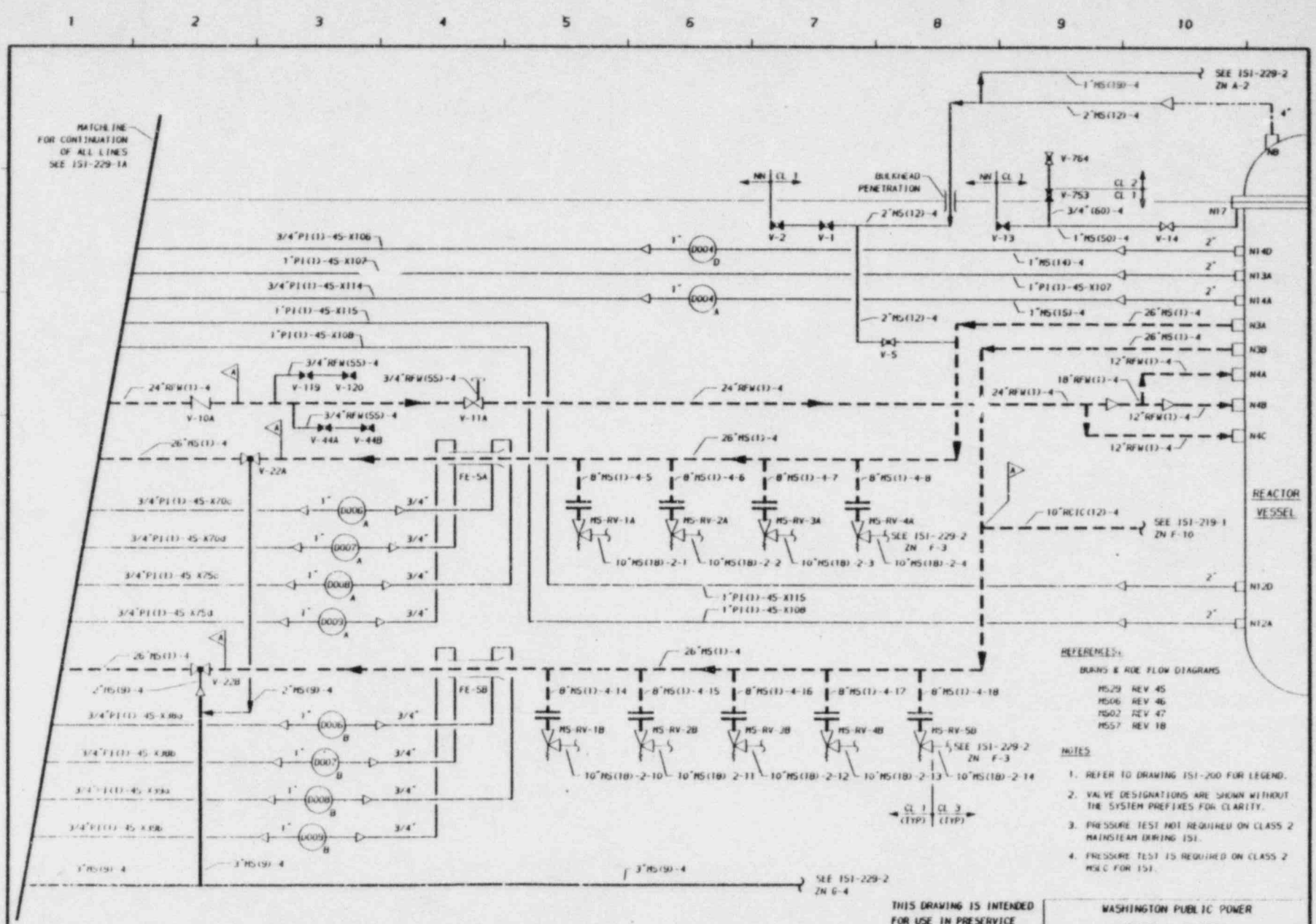
IWB-1220(a)	Yes	2" MS(12)-4, 2" RPV instrument lines, 2" MS(9)-4, 3" MS(9)-4, 1 1/2 MS(9)-4, 1 1/2 MSLC(2)-4
(b)(1)	Yes	All piping and components $\leq$ 1NPS
(b)(2)	Yes	
(c)	No	
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	All components $\leq$ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping $\leq$ 4NPS
(b)	Yes	
(c)	No	
(d)	No	
IWD-1220.1	No	
IWD-1220.2	No	
Requests for Relief	ISI-2-006	

Note: 1) MSRV discharge lines in the wetwell are ASME Class 2, however, they have been upgraded from ASME Class 3 and therefore, Class 3 rules apply.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BURNS & ROE FLOW DIAGRAMS

M529 REV 45
M506 REV 46
M502 REV 47
M557 REV 18

NOTES

1. REFER TO DRAWING ISI-200 FOR LEGEND.
2. VALVE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIXES FOR CLARITY.
3. PRESSURE TEST NOT REQUIRED ON CLASS 2 MAINSTEAM DURING ISI.
4. PRESSURE TEST IS REQUIRED ON CLASS 2 MSLC FOR ISI.

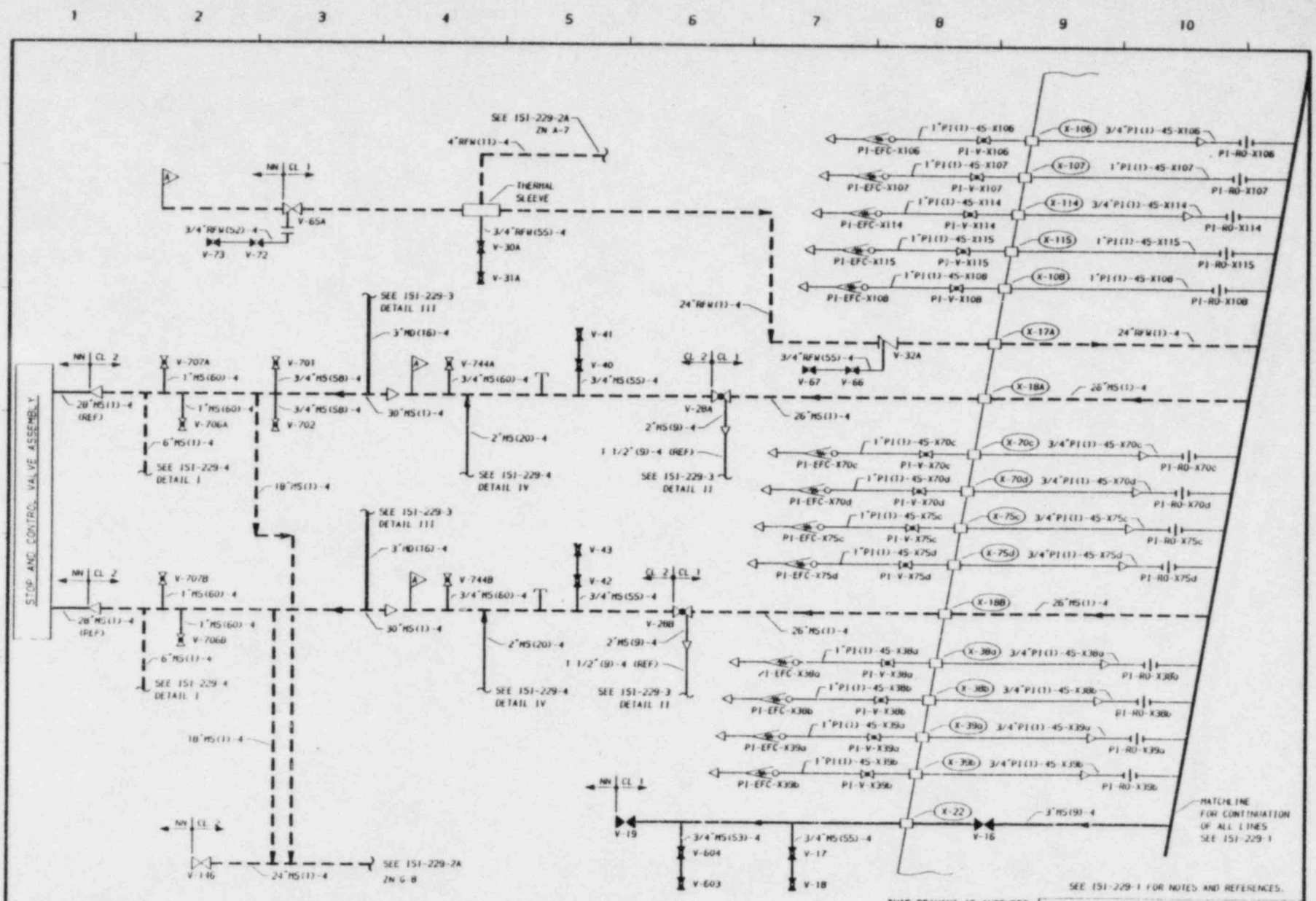
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	K MLA	DPR	TFH
2	11-30-78	ADDITIONAL ISI ADDED. UP DATE, SPLIT, REDRAWN	K MLA	DPR	TFH
1	4-21-79	GENERAL UP DATE	K MLA	TFH	DWP
0	10-10-78	REVISED 1 1/2", 2" & 3"MS(9)-4 FROM SURFACE TO VISUAL. ADDED MSLC SYSTEM & ISSUED FOR USE	K MLA	DWP	LTH
A	4-21-78	ISSUED FOR INFORMATION ONLY	K MLA	DWP	DWP

ENGINEER D PORTER
DRAWN K MCANDREW
DATE 2-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)

DWG NO. ISI-229-1 REV 3



NO	DATE	REVISION	BY	CHKD	APVD
3	7-29-85	REVISED FOR ISI	K-McA	DFN	TFH
2	11-20-84	AUGMENTED ISI ADDED: OP DATE, SPEC., HEDRAWN	K-McA	DFN	TFH

NO	DATE	REVISION	BY	CHKD	APVD
1	4-21-79	GENERAL UP-DATE	K-McA	TFH	DWP
0	10-18-78	REVISED 1 1/2", 2" & 3"MS(S) 4 FROM SURFACE TO ORIGINAL ADDED MSIC SYSTEM & ISSUED FOR USE	K-McA	DWP	LTH
A	4-21-78	ISSUED FOR INFORMATION ONLY	K-McA	DCT MCH	DWP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K-McANDREW

DATE 2-13-78

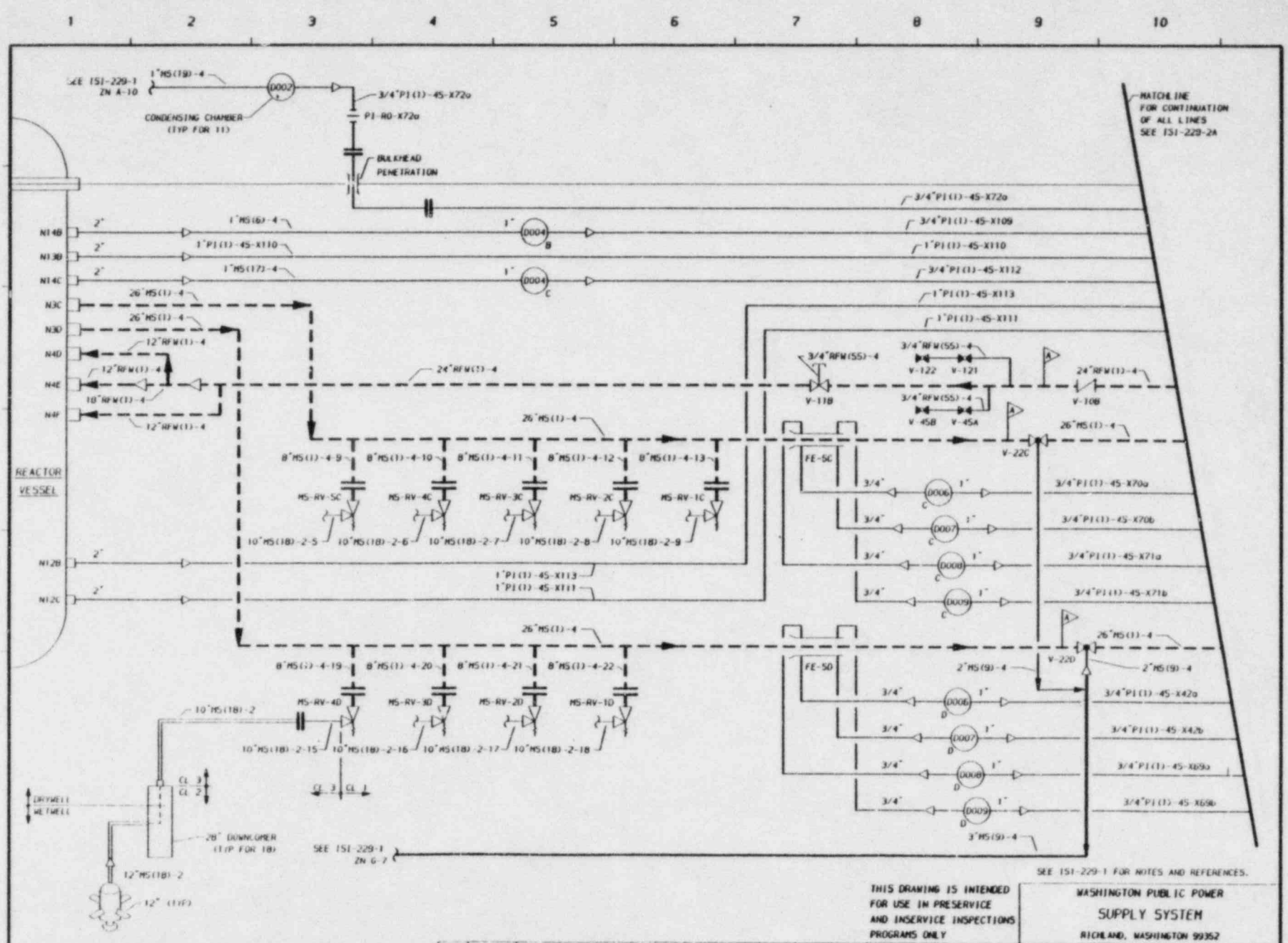
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

INSERVICE INSPECTION BOUNDARY DIAGRAM MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)

DWG NO. ISI-229-1A REV 3

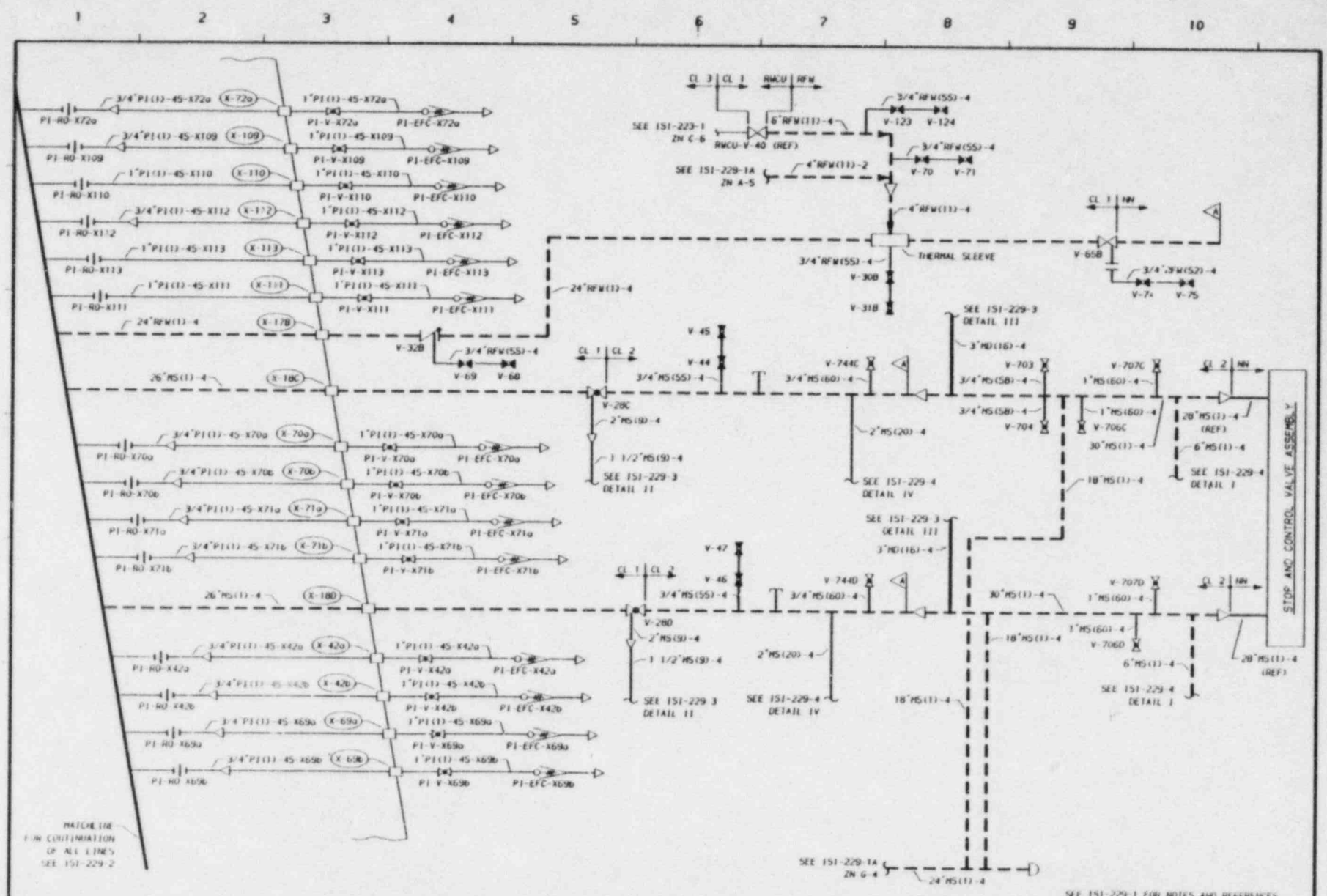


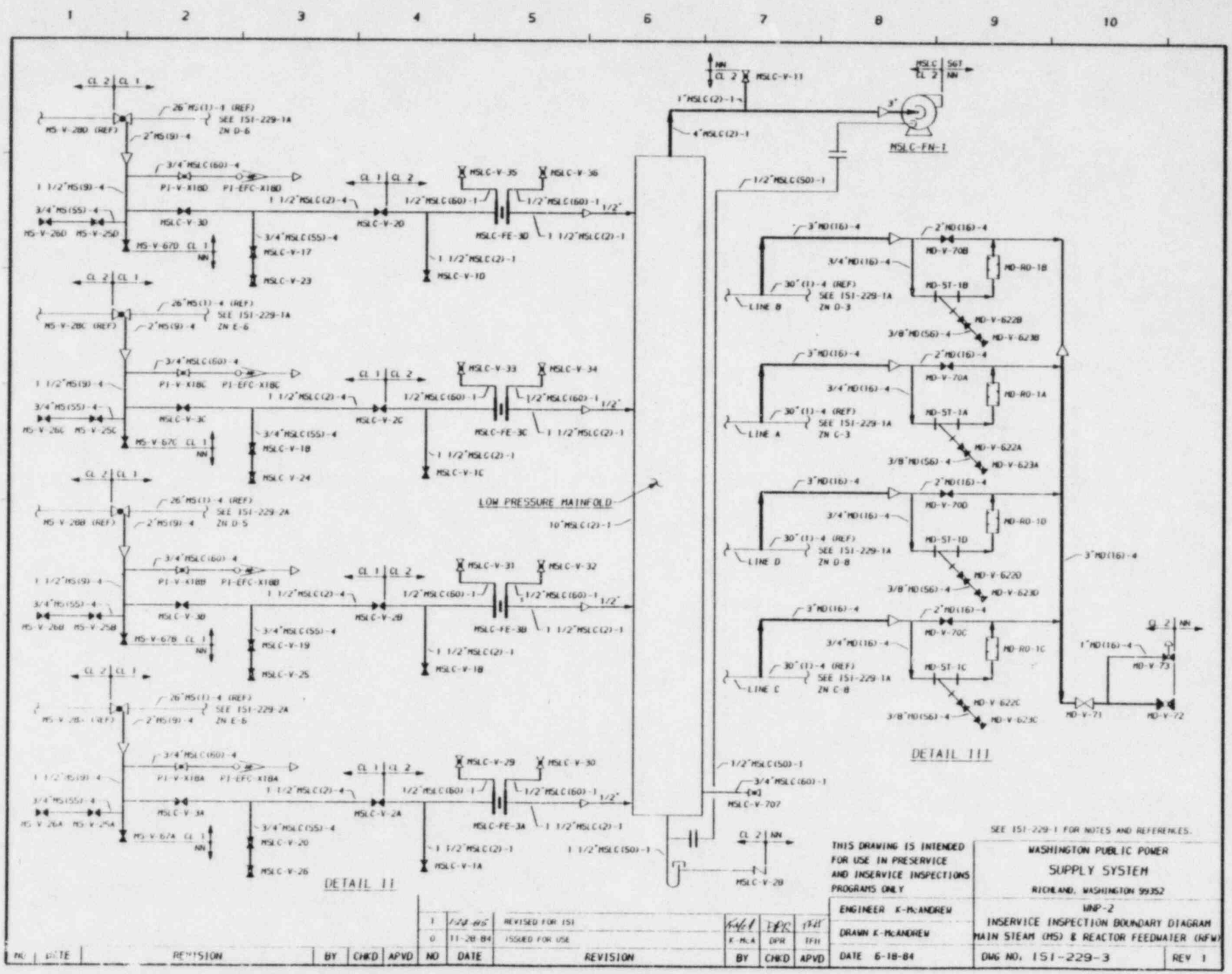
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

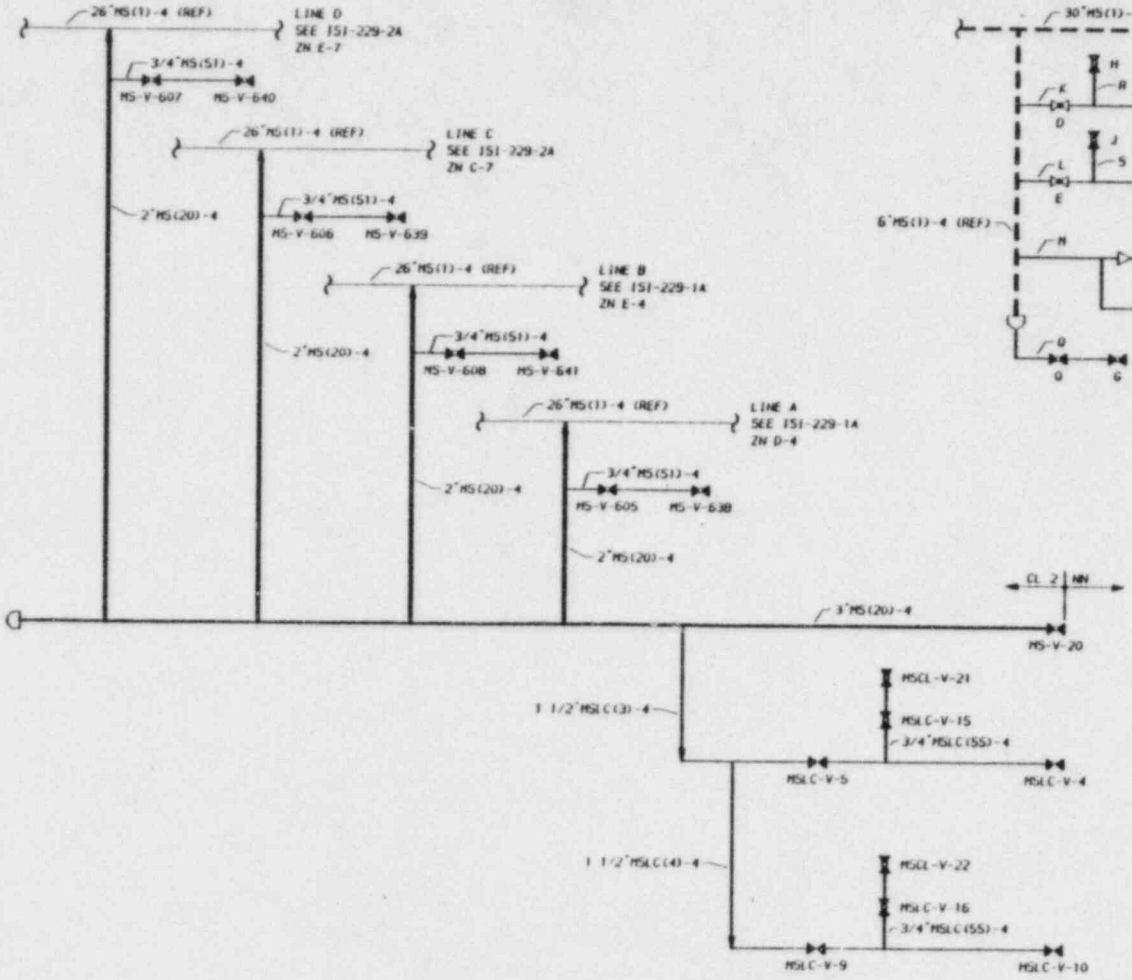
NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
2	11-28-84	AUGMENTED ISI ADDED UP DATE, SPLIT, REDRAWN	K-McA	DPR	TFH
1	4-21-79	GENERAL UP DATE	K-McA	TFH	DWP
0	10-18-78	REVISED 1 1/2", 2" & 3"MS(9)-4 FROM SURFACE TO VISUAL. ADDED MSLC SYSTEM & ISSUED FOR USE.	K-McA	DWP	LTH
A	4-21-78	ISSUED FOR INFORMATION ONLY	K-McA	DWP	DWP

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 2-13-78

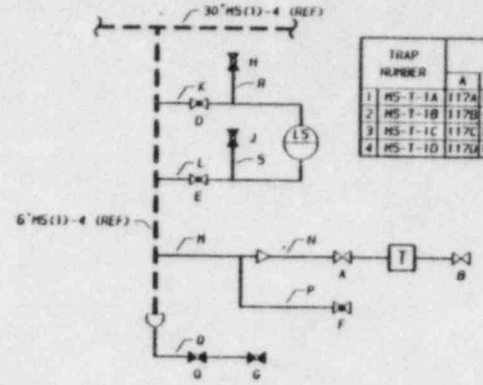
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)
DWG NO. ISI-229-2 REV 3


1 2 3 4 5 6 7 8 9 10
A B C D E F G H
3/4"P1(1)-45-X72a (X-72a) 1"P1(1)-45-X72a
P1-RO-X72a P1-V-X72a P1-EFC-X72a
3/4"P1(1)-45-X109 (X-109) 1"P1(1)-45-X109
P1-RO-X109 P1-V-X109 P1-EFC-X109
1"P1(1)-45-X110 (X-110) 1"P1(1)-45-X110
P1-RO-X110 P1-V-X110 P1-EFC-X110
3/4"P1(1)-45-X112 (X-112) 1"P1(1)-45-X112
P1-RO-X112 P1-V-X112 P1-EFC-X112
1"P1(1)-45-X113 (X-113) 1"P1(1)-45-X113
P1-RO-X113 P1-V-X113 P1-EFC-X113
1"P1(1)-45-X111 (X-111) 1"P1(1)-45-X111
P1-RO-X111 P1-V-X111 P1-EFC-X111
24"RFW(1)-4 (X-17B)
26"MS(1)-4 (X-18C)
3/4"P1(1)-45-X70a (X-70a) 1"P1(1)-45-X70a
P1-RO-X70a P1-V-X70a P1-EFC-X70a
3/4"P1(1)-45-X70b (X-70b) 1"P1(1)-45-X70b
P1-RO-X70b P1-V-X70b P1-EFC-X70b
3/4"P1(1)-45-X71a (X-71a) 1"P1(1)-45-X71a
P1-RO-X71a P1-V-X71a P1-EFC-X71a
3/4"P1(1)-45-X71b (X-71b) 1"P1(1)-45-X71b
P1-RO-X71b P1-V-X71b P1-EFC-X71b
26"MS(1)-4 (X-18D)
3/4"P1(1)-45-X42a (X-42a) 1"P1(1)-45-X42a
P1-RO-X42a P1-V-X42a P1-EFC-X42a
3/4"P1(1)-45-X42b (X-42b) 1"P1(1)-45-X42b
P1-RO-X42b P1-V-X42b P1-EFC-X42b
3/4"P1(1)-45-X69a (X-69a) 1"P1(1)-45-X69a
P1-RO-X69a P1-V-X69a P1-EFC-X69a
3/4"P1(1)-45-X69b (X-69b) 1"P1(1)-45-X69b
P1-RO-X69b P1-V-X69b P1-EFC-X69b
MATCHLINE FOR CONTINUATION OF ALL LINES SEE ISI-229-2
CL 3 CL 1 RWCU RFW
SEE ISI-223-1 ZN C-6
RWCU-V-40 (REF)
6"RFW(11)-4
3/4"RFW(55)-4 V-123 V-124
SEE ISI-229-1A ZN A-5
4"RFW(11)-2
3/4"RFW(55)-4 V-70 V-71
4"RFW(11)-4
THERMAL SLEEVE
3/4"RFW(55)-4 V-30B
V-31B
24"RFW(1)-4
V-32B
3/4"RFW(55)-4 V-69 V-68
CL 1 NN
V-65B
3/4"RFW(52)-4 V-74 V-75
SEE ISI-229-3 DETAIL III
3"MD(16)-4
V-45 V-44
3/4"MS(55)-4
V-744C
3/4"MS(60)-4
V-703
3/4"MS(58)-4
3/4"MS(58)-4 V-704
V-707C
1"MS(60)-4
1"MS(60)-4 V-706C
30"MS(1)-4
28"MS(1)-4 (REF)
6"MS(1)-4
SEE ISI-229-4 DETAIL I
CL 1 CL 2
V-28C
2"MS(5)-4
1 1/2"MS(5)-4
SEE ISI-229-3 DETAIL II
2"MS(20)-4
SEE ISI-229-4 DETAIL IV
18"MS(1)-4
CL 2 NN
STOP AND CONTROL VALVE ASSEMBLY
V-47 V-46
3/4"MS(55)-4
V-744D
3/4"MS(60)-4
V-707D
1"MS(60)-4
1"MS(60)-4 V-706D
V-28D
SEE ISI-229-1A ZN G-4
24"MS(1)-4
SEE ISI-229-1 FOR NOTES AND REFERENCES.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)
ENGINEER D PORTER
DRAWN K-McANDREW
DATE 2-13-78
DWG NO. ISI-229-2A REV 3
NO DATE REVISION BY CHKD APVD
3 12-20-84 REVISED FOR ISI K McA DPR TFH
2 12-20-84 AUGMENTED ISI ADDED UP DATE, SPLIT, REDRAWN K McA DPR TFH
1 4-21-79 GENERAL UP DATE K McA TFH DWP
0 10-18-78 REVISED 1 1/2", 2" & 3"MS(5)-4 FROM SURFACE TO VISUAL ADDED MSLC SYSTEM & ISSUED FOR USE K McA DWP LTH
A 4-21-78 ISSUED FOR INFORMATION ONLY K McA DCT MCA DWP


LOW PRESSURE MAINFOLD
DETAIL II
DETAIL III
MSLC-FN-1
SEE ISI-229-1 FOR NOTES AND REFERENCES.
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
ENGINEER K-McANDREW
DRAWN K-McANDREW
DATE 6-18-84
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)
DWG NO. ISI-229-3
REV 1
NO. DATE REVISION BY CHKD APVD
1 1-29-85 REVISED FOR ISI
0 11-28-84 ISSUED FOR USE



DETAIL IV



DETAIL I

TRAP NUMBER		VALVE TAG NUMBERS									LEVEL SWITCH NUMBER
		A	B	C	D	E	F	G	H	J	
1	MS-T-1A	117A	118A	119A	730A	731A	120A	238A	174A	174B	LS-24A
2	MS-T-1B	117B	118B	239	730B	731B	120B	238B	175A	175B	LS-24B
3	MS-T-1C	117C	118C	119C	730C	731C	120C	238C	176A	176B	LS-24C
4	MS-T-1D	117A	118D	119D	730D	731D	120D	238D	177A	177B	LS-24D

LINE NUMBERS			
K	1"MS(80)-4	P	1"MS(50)-4
L	1"MS(80)-4	Q	3/4"MS(55)-4
M	2"MS(50)-4	R	1/2"MS(50)-4
N	1"MS(50)-4	S	1/2"MS(50)-4

SEE ISI-229-1 FOR NOTES AND REFERENCES.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER K-McANDREW
DRAWN K-McANDREW
DATE 6-18-84

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
MAIN STEAM (MS) & REACTOR FEEDWATER (RFW)

DWG NO. ISI-229-4 REV 1

NO	DATE	REVISION	BY	CHKD	APVD
1	1-29-85	REVISED FOR ISI	K-McA	DPH	TFH
0	11-28-84	ISSUED FOR USE	K-McA	DPH	TFH

Date 04/16/85
Revision 0

Exemptions

ISI-230

SYSTEM: Reactor Recirculation (RRC)

EXEMPTIONS APPLIED:

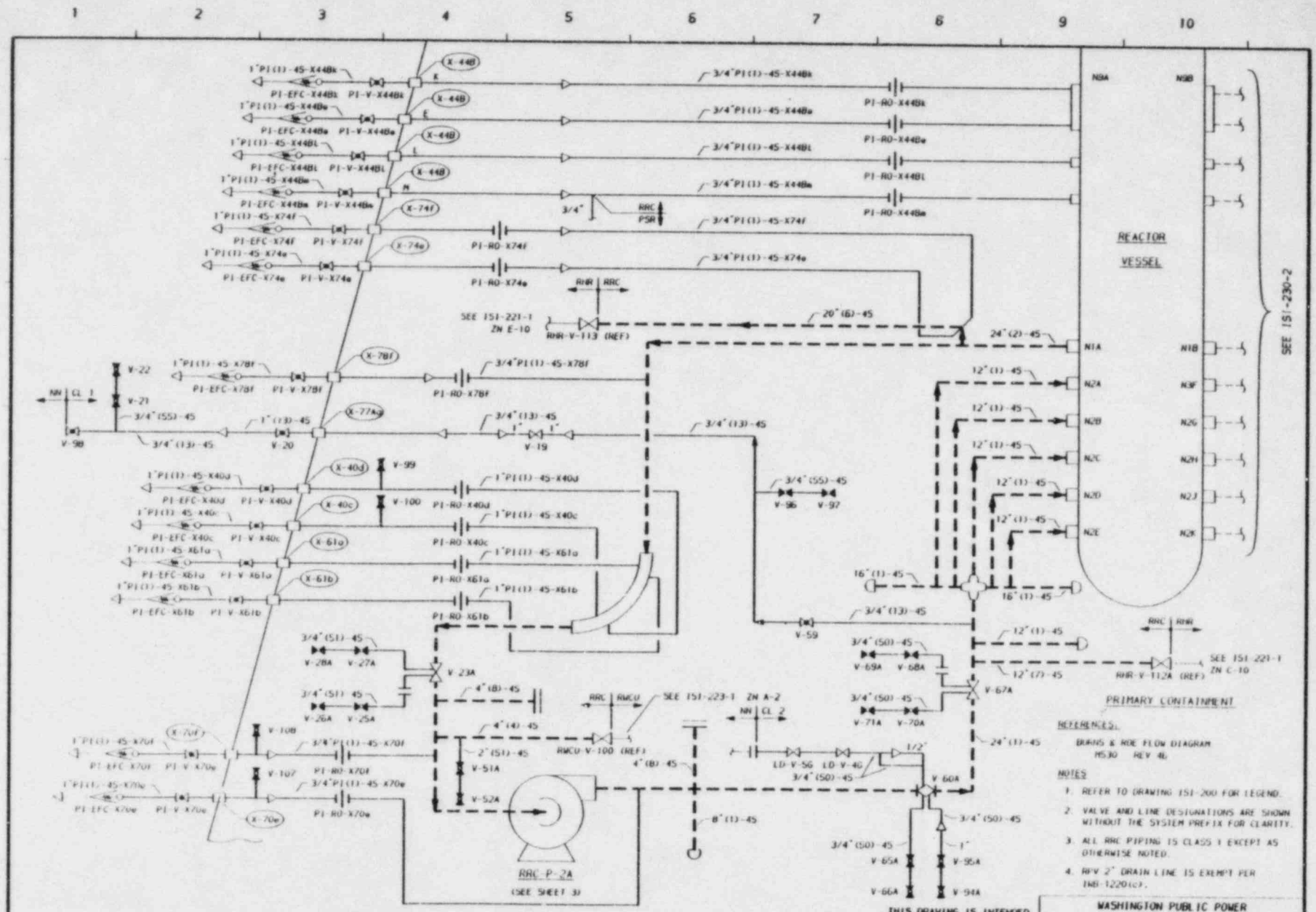
IWB-1220(a)	No	
(b)(1)	Yes	All piping and components ≤ 1NPS
(b)(2)	Yes	
(c)	Yes	2" RRC(51)-4 RPV drain
IWC-1220(a)[1]	No	
(b)	No	
(c)	Yes	Components ≤ 4NPS
IWC-1221(a)[2]	N/A	
(b) N/A[3]		
(c)	N/A	
(d) N/A[3]		
(e) N/A[3]		
(f)	N/A	
IWC-1222(a)	Yes	All piping ≤ 4NPS
(b)	No	
(c)	No	
(d)	No	
IWD-1220.1	N/A	
IWD-1220.2	N/A	
Request for Relief	None	

Note: 1) RRC is Class 1 except for some small miscellaneous Class 2 lines associated with floor control valve drains and pump seals.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



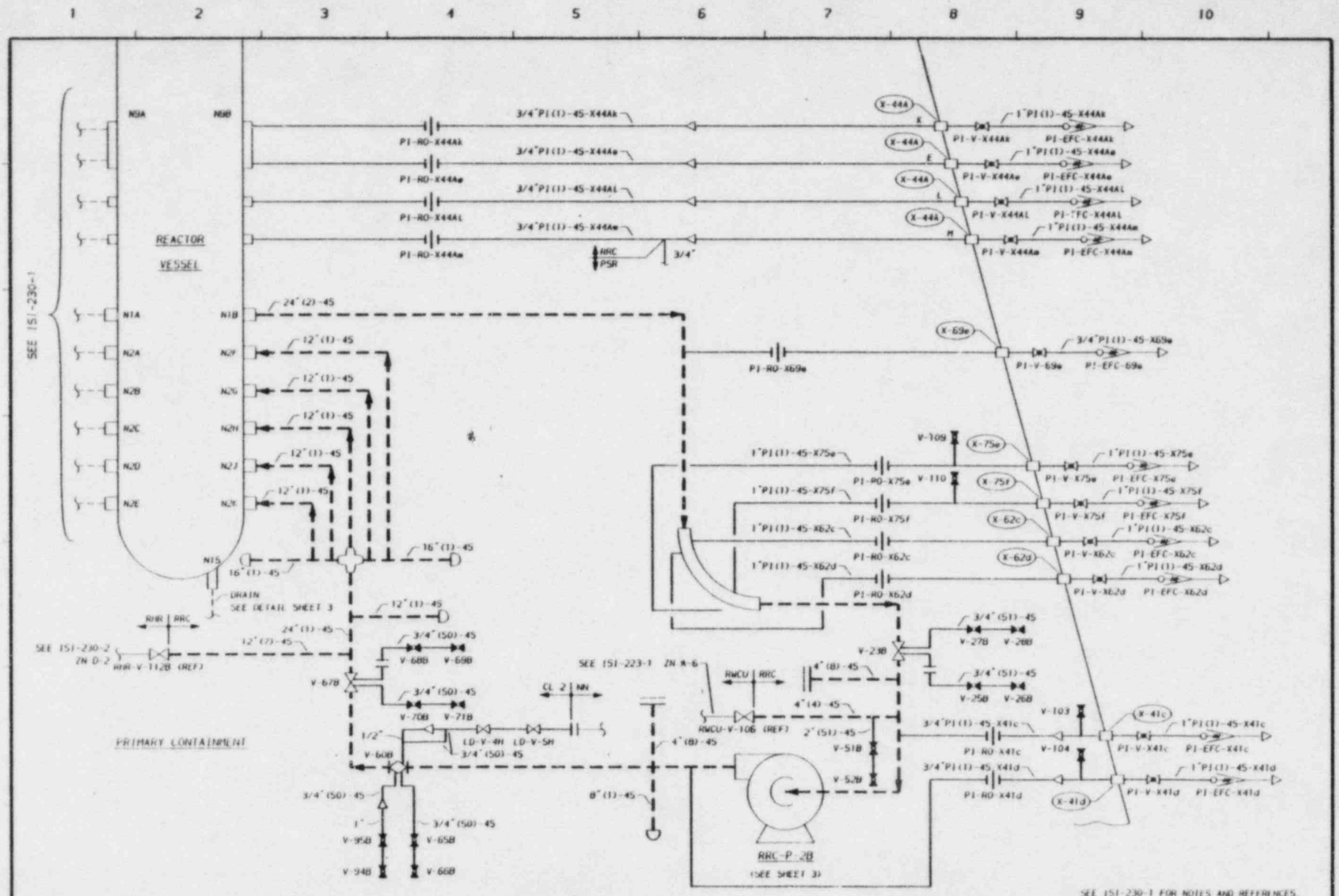
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
2	11-21-84	GENERAL UPDATE AS SHOWN	K-McA	DPR	TFH

NO	DATE	REVISION	BY	CHKD	APVD
1	8-30-79	CHANGED 2"RRC(B)-45 TO SURFACE EXAM	K-McA	TFH DMP	LFB
0	1-9-79	ISSUED FOR USE	K-McA	TFH DMP	LFB
A	5-26-78	ISSUED FOR INFORMATION ONLY	K-McA	MCH	DMP

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 3-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR RECIRCULATION (RRC)
DWG NO. ISI-230-1 REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

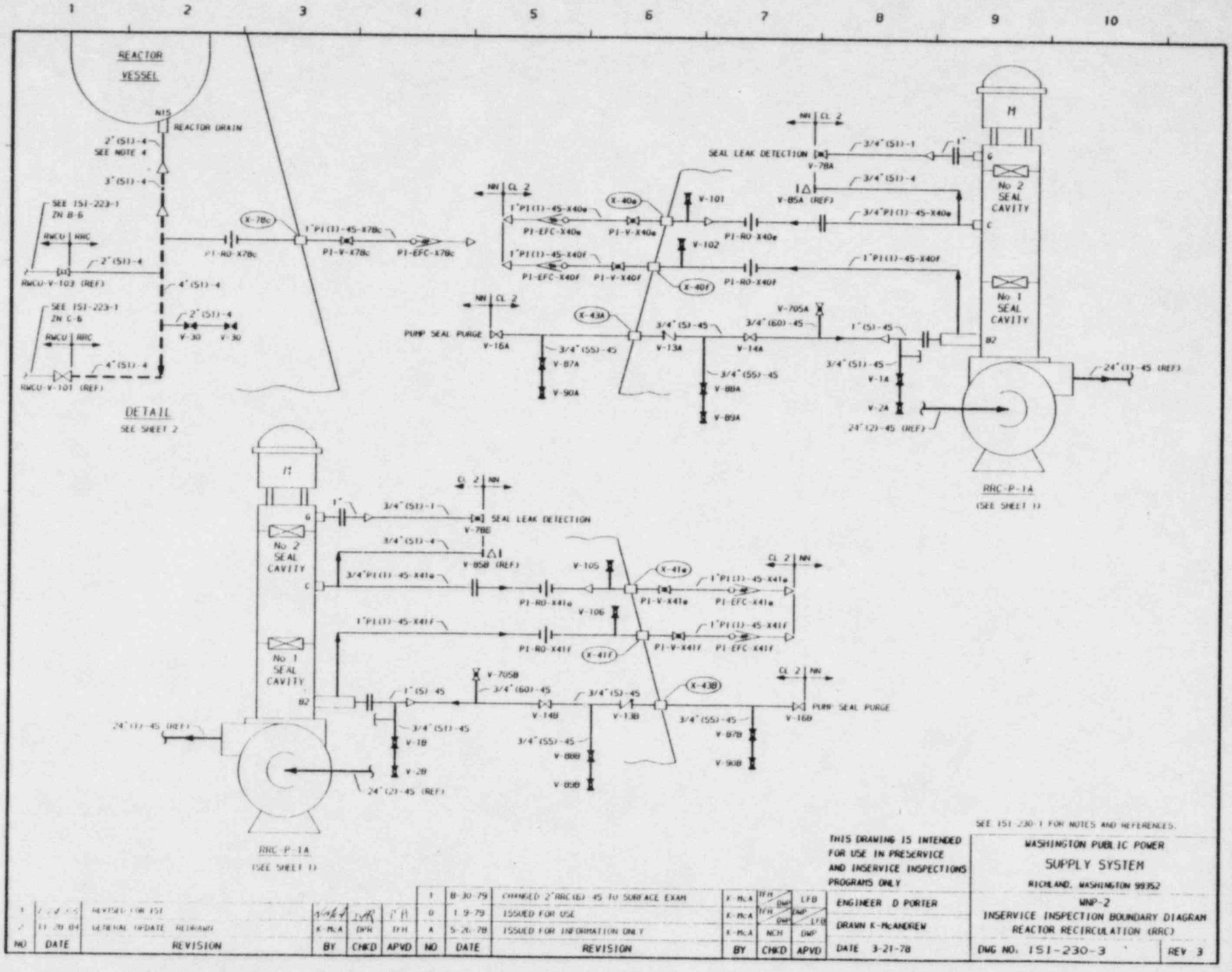
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR RECIRCULATION (RRC)

ENGINEER D PORTER
DRAWN K-McANDREW
DATE 3-21-78

DWG NO. ISI-230-2 REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	[illegible]	REVISED FOR ISI	[illegible]	[illegible]	[illegible]
2	11-29-84	GENERAL UPDATE REDRAWN	K. McA	DPR	TFH
1	8-30-79	CHANGED 2"RRC(6)-45 TO SURFACE EXAM	K. McA	TFH DWP	LFB DWP
0	1-9-79	ISSUED FOR USE	K. McA	TFH DWP	LFB DWP
A	5-26-78	ISSUED FOR INFORMATION ONLY	K. McA	NCH	DWP



SEE 1S1-230-1 FOR NOTES AND REFERENCES.

NO	DATE	REVISION	BY	CHKD	APVD
3	7-2-85	REVISED FOR IST	[illegible]	LVP	[illegible]
2	11-20-84	GENERAL UPDATE REDRAWN	K. McA	DPH	DPH

NO	DATE	REVISION	BY	CHKD	APVD
1	8-30-79	CHANGED 2" RRC(B)-45 TO SURFACE EXAM	K. McA	TFH DWP	LFB
0	1-9-79	ISSUED FOR USE	K. McA	TFH DWP	LFB
A	5-26-78	ISSUED FOR INFORMATION ONLY	K. McA	NCH	DWP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER D PORTER

DRAWN K. McANDREW

DATE 3-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
REACTOR RECIRCULATION (RRC)

DWG NO. 1S1-230-3 REV 3

Date 04/16/85
Revision 0

Exemptions

ISI-275

SYSTEM: Emergency Chilled Water (CCH)

EXEMPTIONS APPLIED:

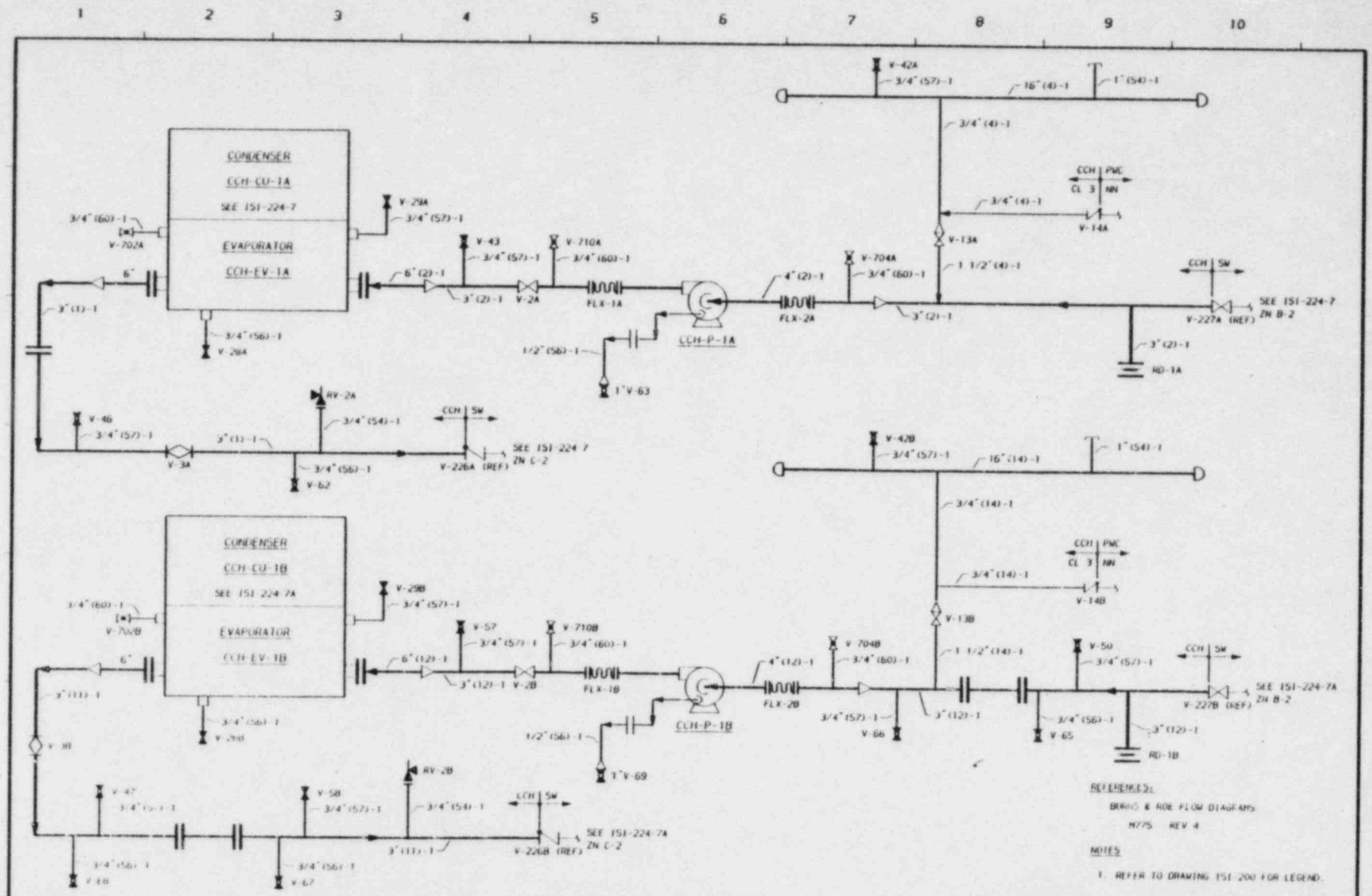
IWB-1220(a)	N/A
(b)(1)	N/A
(b)(2)	N/A
(c)	N/A
IWC-1220(a)[1]	N/A
(b)	N/A
(c)	N/A
IWC-1221(a)[2]	N/A
(b) N/A[3]	
(c)	N/A
(d) N/A[3]	
(e) N/A[3]	
(f)	N/A
IWC-1222(a)	N/A
(b)	N/A
(c)	N/A
(d)	N/A
IWD-1220.1	Yes
IWD-1220.2	Yes
Request for Relief	None

Note: 1) Entire system is Class 3.

[1] Refers to W-80 all categories except C-F

[2] Refers to W-83 category C-F

[3] Applies to PWR



REFERENCES:

BECHTEL P&ID FLOW DIAGRAMS
M-775 REV 4

NOTES

1. REFER TO DRAWING 151-200 FOR LEGEND.
2. VALVE AND LINE DESIGNATIONS ARE SHOWN WITHOUT THE SYSTEM PREFIX FOR CLARITY.

NO	DATE	REVISION	BY	CHK'D	APV'D
1	7-24-85	ISSUED FOR ISI	K. McA	RR	TFH
0	11-28-84	ISSUED FOR USE	K. McA	RR	TFH

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGINEER K-McANDREW

DRAWN K-McANDREW

DATE 7-27-84

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDARY DIAGRAM
EMERGENCE CHILLED WATER (CCH)

DWG NO. 151-275 REV 1

8.0 VISUAL EXAMINATION PROGRAM

8.1 INTRODUCTION

The Supply System is committed to ensuring that the requirements for inservice visual examinations of ASME Section III, Class 1,2, and 3 components found in ASME Section XI, 1980 Edition, Winter 1980 Addenda are satisfied. To comply with this commitment the Supply System has established an Inservice Inspection Visual Examination Program as described in this section. This program consists of four areas of visual examinations as follows:

- o Class 1 Pump and Valve Interiors
- o RPV Internals
- o Evidence of Leakage during System Pressure Tests
- o Class 1 Pressure retaining bolting

8.2 VISUAL EXAMINATION PROGRAM DESCRIPTION

The Inservice Visual Examination Program is divided into four major divisions. These divisions are described in the following sections.

8.2.1 VISUAL EXAMINATION OF PUMP AND VALVE INTERIORS (VT-3)

These examinations will be performed by personnel qualified to VT-3 examination criteria in accordance with Supply System procedures. Essentially all accessible surfaces on the interior of Class 1 pumps, and Class 1 valves greater than 4 inches nominal pipe size will be examined. The scope of items subject to the VT-3 examination is defined in the Program Plan and Schedule Tables found in Section 14.0. These examinations satisfy ASME Section XI Code categories B-L-2 and B-M-2 and B-G-2.

8.2.2 VISUAL EXAMINATION OF REACTOR PRESSURE VESSEL (RPV) INTERNALS (VT-1 AND VT-3)

These examinations will be performed by personnel qualified to VT-1 and VT-3 examination criteria in accordance with Supply System procedures. The scope of the examination is defined in Table 8.1. These examinations satisfy ASME Section XI Code categories B-N-1 and B-N-2.

8.2.3 VISUAL EXAMINATION OF CLASS 1 BOLTING (VT-1)

All pressure retaining bolting in Class 1 piping, pumps, RPV, valves and CRD housings will be examined. These examinations will be performed by personnel qualified to VT-1 examination criteria in accordance with Supply System procedures. These examinations satisfy ASME Section XI Code categories B-G-1 and B-G-2.

8.2.4 SYSTEM PRESSURE TESTS

The Supply System will perform System Pressure Tests per the requirements of IWA-5000, IWB-5000, IWC-5000 and IWD-5000 on all systems required to receive a pressure test with the following clarification. Instrument lines will only be examined up to the transition to instrument tubing. Instrument tubing is not subject to ASME Section XI.

8.2.4.1 SYSTEM LEAKAGE TESTS (VT-2)

The Supply System will perform System Leakage Tests on all systems required to receive a system leakage test per code categories B-E, B-P, C-H, D-A, D-B and D-C. Tests will be performed at each refueling outage (categories B-E and B-P), or during each inspection period (categories C-H, D-A, D-B, and D-C) or at other times when necessary (i.e., repairs, replacements) to assure boundary integrity. The examinations (VT-2) will be performed by personnel qualified to VT-2 examination criteria per Supply System procedures.

8.2.4.2 SYSTEM HYDROSTATIC TEST (VT-2)

The Supply System will perform System Hydrostatic Tests on all systems required to receive one per code categories B-E, B-P, C-H, D-A, D-B and D-C. A hydrostatic test may be performed any time during the interval, at the discretion of the Supply System. Hydrostatic tests will be performed on applicable portions of systems when required after repair or installation of replacements. The next hydrostatic test will be no later than the same time in the succeeding interval. The examinations (VT-2) will be performed by personnel qualified to VT-2 examination criteria per Supply System procedures.

9.0 ULTRASONIC CALIBRATION STANDARDS

This section of the WNP-2 ISI Program Plan describes the design and identifies the applicability of each ultrasonic calibration block which will be used at WNP-2. This section is divided into two subsections. Subsection 9.1 presents the UT calibration blocks which will be used in performing examinations of the RPV, including top and bottom heads, nozzle-to-shell welds and inner radii, and nozzle safe end weld examinations. Subsection 9.2 presents those calibration blocks which will be used in performing examinations of the piping systems. The feedwater nozzle block is an actual BWR feedwater nozzle with attached shell plate material. The notches in this mock-up which simulate flaws, were designed and fabricated by the Supply System. The RPV safe-end and vessel blocks were designed and fabricated by the NSSS supplier. The feedwater nozzle inner radius examinations will use a RPV shell calibration block as a transfer standard. The transfer sensitivity for the examination was determined using the BWR feedwater nozzle mock-up described above. This method provides a more sensitive examination than required by the reference code. The flange-to-shell weld block is an actual BWR flange with attached shell plate material. The notches were designed and fabricated by the Supply System. The balance of the piping weld blocks were designed and fabricated by the Supply System as detailed in 9.2.

9.1 VESSEL STANDARDS

The design drawings on the following pages illustrate the ultrasonic calibration blocks which will be used to perform ultrasonic examinations of the RPV, including top and bottom heads, the nozzle-to-shell welds and inner radii, and the nozzle safe end welds. Table 9.1 lists those UT blocks, including the block identification number which will be used exclusively whenever referencing the calibration block on data sheets or other records, and the corresponding design drawing number. The block identification number is the same number referenced from the Program Plan and Schedule Tables and the Weld and Component Identification Diagrams found in Section 14.0 "WELD ID DIAGRAMS".

Sheet 1 of 2

TABLE 9.1

RPV ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 0

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-101	UTCB-101	NOZZLE TO SAFE-END, N1	CS-SS	22"	1 29/32"	SA-508, SA-336
UT-102	UTCB-102	NOZZLE TO SAFE-END, N4, N5, N6, N16	CS-INCO	12"	1 1/8" 1 5/16"	SA-508, SB-166
UT-103	NOT USED					
UT-104	UTCB-104	NOZZLE TO SAFE-END, N3	CS-CS	24"	1 5/8"	SA-508, Gr. B
UT-105	UTCB-105	SAFE-END TO STUB, N4	INCO-INCO	12"	15/16"	SB-166-70
UT-106	UTCB-106	SAFE-END OR STUB TO SAFE-END EXTENSION, N4, N5, N6, N16	INCO-CS	10/12"	13/16"	SB-166, SA-508
UT-107	UTCB-107	NOZZLE TO FLANGE, N7, N18	CS-CS	6"	1 3/4"	SA-508
UT-108	UTCB-108	NOZZLE TO FLANGE, N8	CS-CS	4"	1 1/4"	SA-508
UT-109	UTCB-109	NOZZLE TO SAFE-END, N9	CS-SS	4"	3/4"	SA-508, SA-336
UT-110	UTCB-110	NOZZLE SAFE-END, N10	CS-CS	5"	3/4"	SA-508
UT-111	UTCB-111	NOZZLE TO SAFE-END, N2	CS-SS	12"	1 1/4"	SA-508, SA-182, F 316L
UT-112	NOT USED					
UT-113	NOT USED					
UT-114	NOT USED					
UT-115	UTCB-203	TOP HEAD DOLLAR PLATES	CS	N/A	3 5/8"	SA-533, Gr. B
UT-116	UTCB-204	TOP HEAD RADIAL PLATES	CS	N/A	5 1/8"	SA-533, Gr. B

TABLE 9.1

RPV ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 0

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-117	UTCB-205	BOTTOM HEAD DOLLAR PLATES	CS	N/A	8"	SA-533, Gr. B
UT-118	UTCB-206	BOTTOM HEAD RADIAL PLATES	CS	N/A	6 3/4"	SA-533, Gr. B
UT-119	UTCB-207	SHELL COURSE #1	CS	N/A	9 3/4"	SA-533, Gr. B
UT-120	UTCB-208	SHELL COURSE #2 & #3	CS	N/A	6 9/16"	SA-533, Gr. B
UT-121	UTCB-209	SHELL COURSE #4	CS	N/A	7 1/4"	SA-533, Gr. B
UT-122	UTCB-250	N-4 NOZZLE INNER RADIUS & BORE	CS	N/A	LATER	SA-533, Gr. B, SA-508
UT-123	UTCB-251	RPV FLG TO SHELL COURSE #4	CS	N/A	N/A	SA-508
UT-124	NOT USED					
UT-125	NOT USED					
UT-126	NOT USED					
UT-127	NOT USED					
UT-128	NOT USED					
UT-129	NOT USED					
UT-130	UTCB-210	RPV STUDS	CS	6"	N/A	SA-540, Gr. 23
UT-131	NOT USED					
UT-132	UTCB-211	RPV NUTS	CS	6"	N/A	SA-540, Gr. 23

9.2 PIPING SYSTEM STANDARDS

The design drawings on the following pages illustrate the ultrasonic calibration blocks which will be used to perform ultrasonic examinations of the Class 1 and 2 piping systems. Table 9.2 lists those UT blocks, including the block identification number which will be used exclusively whenever referencing the calibration block on data sheets or other records, and the corresponding design drawing number. The block identification number is the same number referenced from the Program Plan and Schedule Tables and the Weld and Component Identification Diagrams found in Section 14.0, "WELD ID DIAGRAMS".

The following notes apply to Table 9.2:

NOTE 1: This block is for use on 20" RHR(2)-4S which is of material specifications SA-312 rather than SA-358. This is acceptable based on the acoustic similarity of the two materials.

NOTE 2: For these piping systems, the UT calibration block is for use on the schedule 100 elbows only.

NOTE 3: This block is for use on 12" RHR(1)-4S which is of material specifications SA-312 rather than SA-358. This is acceptable based on the acoustic similarity of the two materials.

NOTE 4: See detail for special 5" thermal sleeve on RFW-101-1 in Section 15.0, "WELD ID DIAGRAMS".

NOTE 5: See detail for flued head fitting on MS-101-3. This block is intended for use along with pipe block UT-3.

Sheet 1 of 5

TABLE 9.2

PIPING ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 0

See Section 9.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-1	UTCB-220	30" MS(1)-4	CS	30"	1.250"	SA 155 KCF-70
UT-2	UTCB-220	28" MS(1)-4	CS	28"	1.420"	SA 155 KCF-70
UT-3	UTCB-220	26" MS(1)-4	CS	26"	1.125"	SA 155 KCF-70
UT-4	UTCB-224	26" MS(1)-4	CS	26"	1.125"	SA-106 Gr. B
UT-5	UTCB-220	24" RFW(1)-4	CS	24"	1.812"	SA-106 Gr. B
UT-6	UTCB-220	24" MS(1)-4	CS	24"	1.218"	SA 106 Gr. B
UT-7	UTCB-220	24" RRC(1)-4S	SS	24"	1.140"	SA-358 Gr. 304
		24" RRC(2)-4S				
UT-8	NOT USED					
UT-9	UTCB-220	20" RRC(6)-4S	SS	20"	1.031"	SA-358 Gr. 304 (NOTE 1)
		20" RHR(2)-4S				
UT-10	UTCB-220	20" RHR(2)-4	CS	20"	1.031"	SA-106 Gr. B
UT-11	UTCB-220	18" RFW(1)-4	CS	18"	1.375"	SA-106 Gr. B
UT-12	UTCB-220	18" MS(1)-4	CS	18"	0.938"	SA-106 Gr. B
UT-13	UTCB-220	16" RRC(1)-4S	SS	16"	0.758"	SA-358 Gr. 304

TABLE 9.2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 0

See Section 9.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-14	UTCB-221	14"RHR(1)-4	CS	14"	0.750"	SA-106 Gr. B
UT-15	UTCB-221	12" RFW(1)-4	CS	12"	1.000"	SA-106 Gr. B
UT-16	UTCB-221	12" RHR(1)-4	CS	12"	0.844"	SA-106 Gr. B
		12" HPCS(1)-4				(NOTE 2)
		12" LPCS(1)-4				(NOTE 2)
UT-17	UTCB-221	12" HPCS(1)-4	CS	12"	0.688"	SA-106 Gr. B
		12" LPCS(1)-4				
UT-18	NOT USED					
UT-19	UTCB-221	12" RRC(7)-4S	SS	12"	0.688"	SA-358 Gr. 304 (NOTE 3)
		12" RHR(1)-4S				
		12" RRC(1)-4S				
UT-20	NOT USED					
UT-21	UTCB-221	10" RCIC(12)-4	CS	10"	0.719"	SA-106 Gr. B
UT-22	UTCB-221	10" HPCS(1)-4	CS	10"	0.594"	SA-106 Gr. B
		10" RCIC(12)-4				
		10" LPCS(1)-4				
UT-23	UTCB-221	10"RCIC(12)-4	CS	10"	0.844"	SA-106 Gr. B

TABLE 9.2

Sheet 3 of 5

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 0

See Section 9.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-24	UTCB-221	8" MS(1)-4	CS	8"	0.906"	SA-106 Gr. B
UT-25	UTCB-221	8" RCIC(12)-4	CS	8"	0.594"	SA-106 Gr. B
		8" RHR(20)-4				
UT-26	UTCB-221	8" RRC(1)-4S	SS	8"	0.500"	SA-376 Tp. 304
UT-27	UTCB-221	6" RCIC(1)-4	CS	6"	0.562"	SA-106 Gr. B
		6" RCIC(6)-4				
UT-28	UTCB-221	6" RCIC(1)-4	CS	6"	0.432"	SA-106 Gr. B
		6" RHR(10)-4				
		6" RWCU(3)-4				
		6" RWCU(4)-4				
		6" RWCU(2)-4				
		6" RFW(11)-4				
UT-29	UTCB-221	4" RRC(4)-4S	SS	4"	0.337"	SA 312 Tp. 304
		JET PUMP INST. NOZZLE				
UT-30	UTCB-221	4" RCIC(10)-4	CS	4"	0.337"	SA-106 Gr. B
		4" RCIC(13)-4				
		4" RWCU(3)-4				

TABLE 9.2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 1

See Section 9.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
		4" RWCU(4)				
		4" HPCS(4)				
		4" RRC(51)-4				
		4" HPCS(1)-4				
		4" LPCS(1)-4				
		4" MS(12)-4				
		4" RFW(11)-4				
UT-31	UTCB-221	4" RRC(8)-4S	SS	4"	0.237"	SA-376 Tp. 304
UT-32	UTCB-221	5" RFW(11)-4	CS	5"	0.500"	SA-106 Gr. B (NOTE 4)
UT-33	UTCB-220	24" RFW(1)-4	CS	24"	2.343"	SA-106 Gr. B
UT-34	UTCB-230	CRD SCRAM DISCHARGE VOLUME	CS	12"	0.688"	SA 333 Gr. 6
UT-35	UTCB-231	CRD SCRAM DISCHARGE	CS	8"	0.500"	SA 106 Gr. B
UT-36	UTCB-231	CRD SCRAM DISCHARGE	CS	6"	0.432"	SA 106 Gr. B
UT-37	NOT USED					
UT-38	NOT USED					
UT-39	NOT USED					
UT-40	UTCB-222	MS FLUED HEAD	CS	FLAT	5.000"	SA-105 (NOTE 5)

TABLE 9.2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 04/16/85
Revision 1

See Section 9.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-41	UTCB-223	REACTOR RECIRC. PUMP STUDS	CS	3-1/4"	N/A	SA-193 Gr. 7
UT-42	UTCB-225	RHR HEAT EXCHANGER SHELL TO HEAD AND SHELL TO FLANGE WELDS RHR HEAT EXCHANGER NOZZLE TO SHELL WELDS (N3, N4)	CS	FLAT	1.00"	SA-516 Gr. 70
UT-43	UTCB-226	RRC FLOW CONTROL VALVE	CS	2-3/4"	14-1/4"	SA-193 Gr. B7
UT-44	UTCB-229	3" MS(20)-4	CS	3"		SA 106 Gr. B
UT-45	NOT USED					
UT-46	UTCB-227	CARBON STEEL LUGS	CS	FLAT	0.500"	SA 516 Gr. 70
UT-47	UTCB-228	STAINLESS STEEL LUGS	SS	FLAT	0.500"	SA 240 Tp 304 CL 1

10.0 PROCEDURES

The Inservice Inspection Program at WNP-2 will be governed by NOS-33 "Inservice Inspection". This standard defines responsibilities of the Plant Operating Staff, Engineering, Quality Assurance and the NDE organization.

The NDE procedures used for each scheduled refueling outage will be contained in the ISI Outage Plan which will be approved prior to the scheduled outage.

A list of all procedures and field changes, if any, will be included in the ISI Summary Report. The actual procedures will be on file at the Plant.

11.0 MANAGEMENT PLAN

11.1 INTRODUCTION

Management of the ISI Program Plan is controlled through Nuclear Operation Standard - 33 (NOS-33) "Inservice Inspections". The WNP-2 Plant Manager is responsible for the overall completion of the ISI Program. He will be provided Outage Plans by Engineering Systems Support. These Outage Plans will list all components and component supports that are to be examined or tested for a particular outage.

11.2 ORGANIZATION

Planning for an ISI outage will be based on the ISI Outage Plan which is prepared for each outage. The Outage Plan is prepared by the ISI Engineer and is the controlling documents for the ISI scope during the outage. The Outage Plan is based on the ISI Program Plan and will contain the information necessary to complete the ISI requirements during the outage. This information will include:

- Welds requiring examination
- Component supports requiring examination
- Technical Specification snubbers requiring examination and testing
- Procedures that will be used.
- Organizations involved and their responsibilities.
- Manpower requirements
- Special examinations (i.e., IE Bulletins)

To aid in compiling the Outage Plan and to track the ISI program over the 10 year interval, the Supply System has developed a computerized ISI Data Management System. This system is maintained and controlled by the ISI Engineer. For each component, examination requirements have been entered. Based on these requirements the ISI Outage Plans will be generated.

The ISI Data Management System is capable of tracking safety-related snubber testing and examination. By using this system, a periodic listing of upcoming examinations and tests can be generated.

11.3 PLANNING AND SCHEDULING

The Plant Manager is responsible for the conduct of ISI. The Plant Technical Staff will coordinate the ISI activities through the ISI Program Leader. The Plant Technical Staff will review the Outage Plan and integrate the necessary examinations and tests with the other outage activities.

The WNP-2 Plant Manager is responsible for providing support services for ISI activities. Typical support services include Health Physics, Industrial Safety, scaffolding and insulation removal. Per volume 8 of the Plant Procedure Manual (PPM) the Maintenance Manager has been delegated to supply the support services.

11.4 ISI PROGRAM PLAN CONTROL

The ISI Engineer has responsibility for preparation, review, revision and control (including distribution) of the ISI Program Plan. These responsibilities are controlled by Technology Directorate Procedures (TDP's). The ISI Engineer will maintain the Master Copy of the Program Plan which will contain the most recent changes to the Plan.

Revisions to the Plan will be made by the ISI Engineer by changing the Master Copy. Each change will be signed and dated by the ISI Engineer (or his Supervisor) and the Plant Technical Manager (or his designee). Engineering Systems Support will make distribution of the change to the following organizations:

ISI/NDE
Plant QA
Plant Technical Staff
ANI (I)
Plant File
ISI Contractors (if any)

Each copy will contain instructions to destroy the page(s) it replaces.

Periodically, the ISI Engineer will issue amendments to the Plan which incorporate all revisions that have been made to the Master Copy.

11.5 REPORTING AND DISPOSITING OF NONCONFORMANCES

Components failing to meet examination and testing procedure acceptance criteria will be reviewed by Engineering and Plant Staff to determine appropriate corrective action, if any. Specific details of responsibilities will be included in the Outage Plan.

11.6 RECORDS

Records generated during ISI will be controlled by the requirements of NOS-24 "Control of Documents and Records". Each performing organization is responsible for maintaining ISI records generated by them prior to transmitting them to the ISI Engineer. Before transmitting the records to the ISI Engineer, the performing organization will obtain all required approvals and reviews of the records.

The ISI Engineer is responsible for ensuring that the ISI records are transmitted to the plant files. The Plant Manager is responsible for retention of the records.

12.0 ASME SECTION XI REPAIRS/REPLACEMENTS

Repairs/Replacements, including modifications, to ASME Section III Code Class 1, 2, and 3 components and NF supports will be performed under the rules of the referenced code. Repairs/replacements to ASME Section III Code Class MC components will be performed using Code Case N-236 "Repairs and Replacements of Class MC Vessels". The responsibilities and requirements for performing this work is governed by NOS-21 "ASME Pressure Boundary Work".

A repair/replacement plan will be prepared for each repair/replacement or series of similiar repair/replacements per the reference code. The plan may be a generic procedure (i.e., repair of pumps and valves).

The repair/replacement plan will generally conform to the ASME Section III edition and addenda the component was constructed to. If this construction code is not used, the Supply System will reconcile the code used for the repair/replacement with the construction code.

For all repairs/replacements requiring welding, and for replacing pressure boundary parts (i.e., bolting), all repair/replacement plans will be reviewed by the Repair/Replacement Program Lead Engineer to determine if it affects the ISI Program Plan. If the repair/replacement plan affects the ISI Program Plan, the ISI Engineer will determine if a new baseline is required. The Supply System will complete a NIS-2 form per code case N-308. The completed NIS-2 forms will be included in the ISI Summary Report issued after each ISI outage.

Date 04/16/85

Revision 0

13.0 ISI REPORT SUBMITTAL

Following the completion of the WNP-2 Inservice inspection for each refueling outage, an Inservice Inspection Summary Report will be prepared by the Supply System and filed with the Nuclear Regulatory Commission (NRC) and the State Enforcement Authority (State Boiler Inspector-SBI). The report will satisfy the reporting requirements of the reference ASME Section XI Code, Article IWA-6000, "Records and Reports".

The WNP-2 Inservice Inspection Report will include at least the following information:

1. Abstract of examination and tests performed, including Form NIS-1, since the last refueling outage.

2. Summary of examination and results, including disposition of significant indications.

3. NIS-2 forms for all repairs/replacements completed between filing of last NIS-1 form and the present refueling outage.

The ISI Report will be submitted to the NRC and SBI within 90 days (as required by ASME Section XI) after the examinations have been completed for a particular refueling outage.

Date 04/16/85

Revision 0

14.0 WELD AND COMPONENT IDENTIFICATION DIAGRAMS

This section of the WNP-2 PSI Program Plan contains Weld and Component Identification Diagrams for each system subject to inservice inspection. The diagrams identify each weld, component, and component support subject to inspection by illustrating the system in piping isometric format. For piping systems or portions thereof which require volumetric and/or surface examination, each weld and component is assigned an ISI identification number unique to that item. This number will be used exclusively for identification of welds and components on data sheets, reports, etc. For systems requiring only a visual examination for evidence of leakage, no ISI numbers are assigned.

Also shown on diagram are such items as platforms, floors, walls, ladders, elevations and azimuths, compartment names, details, penetrations, and various notes; these are intended to aid the examination crew in locating and gaining access to the items to be examined and to note potential access restrictions.

Following each set of Weld and Component Identification Diagrams whose components are subject to volumetric and/or surface examination, is a set of Program Plan and Schedule Tables. Those tables list and describe each weld and component shown on the diagram, in order as they appear, tracing the line in the direction of flow. They further define the Section XI Category, the examination method and the ultrasonic calibration block, if applicable, for each examination item.

The following system abbreviations are used throughout this section:

COND	Main Condensate
CRD	Control Rod Drive
DW	Demineralized Water
EDR	Equipment Drains, Radioactive
FDR	Floor Drains, Radioactive
FPC	Fuel Pool Cooling
HPCS	High Pressure Core Spray
LPCI	Low Pressure Coolant Injection
LPCS	Low Pressure Core Spray
MS	Main Steam
MSLC	Main Steam Leakage Control
RCC	Reactor Closed Cooling
RFW	Reactor Feed Water
RHR	Residual Heat Removal
RCIC	Reactor Core Isolation Cooling
RPV	Reactor Pressure Vessel
RRC	Reactor Recirculation
RWCU	Reactor Water Cleanup
SLC	Standby Liquid Control
SW	Service Water

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SCHEDULE REPORT NOTES

DATE: April 16, 1985
REVISION: 0

NOTE #1: Pipe whip restraints, abbreviated "PWS", are not designed nor fabricated in accordance with ASME Section III, Article NF, and are not subject to the rules of ASME Section XI. However, a visual examination is performed and documented on a voluntary basis by and at the discretion of the Supply System.

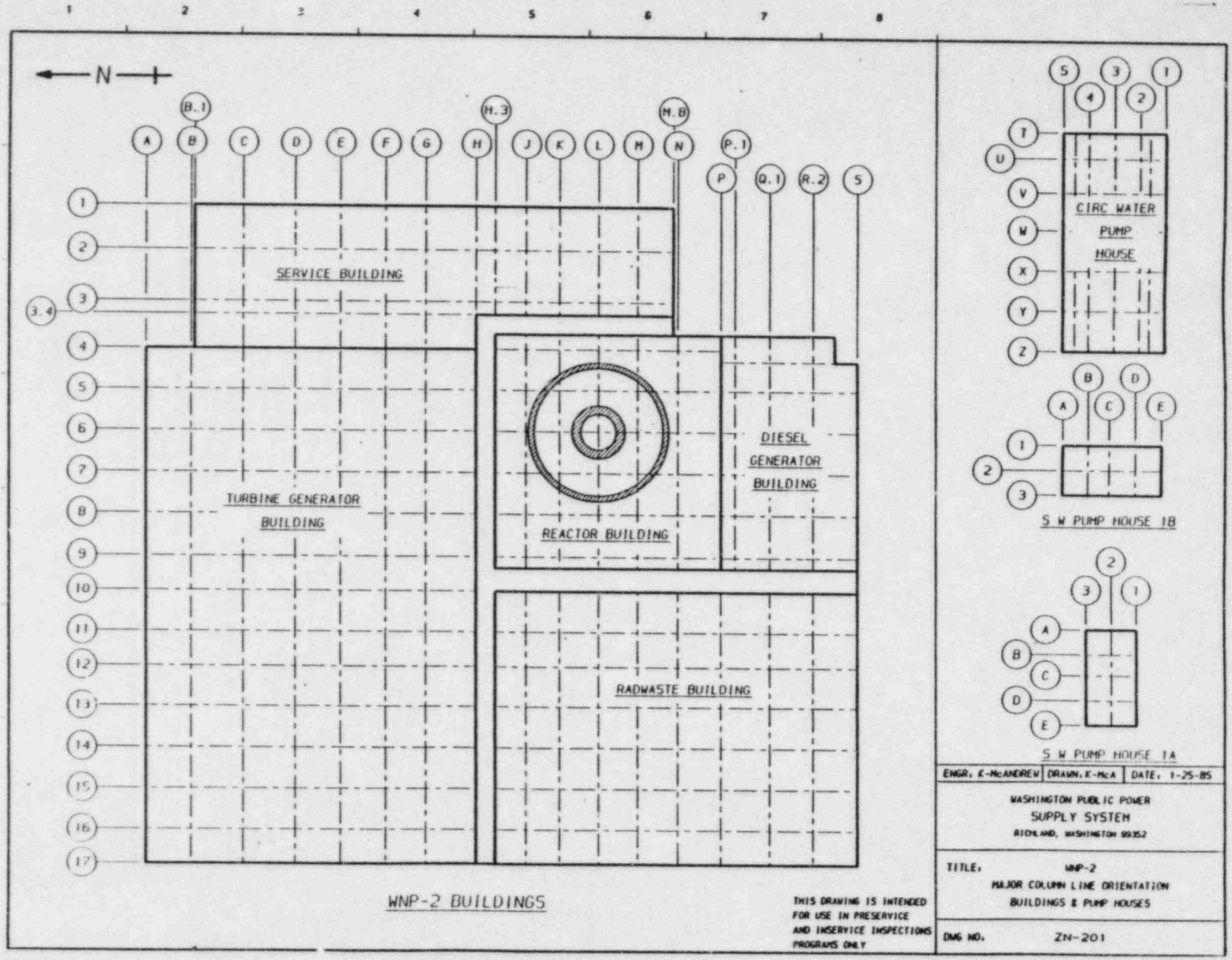
NOTE #2: The RHR pumps were designed prior to the requirement to perform class 2 component examinations for Preservice and Inservice Inspections. The pump casings are embedded in a pump pit which allows no access from the outside surface. The pump impeller was removed for pre-op maintenance. This allowed an MT exam of the inside surface of the pump's casings.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
EXAMINATION REQUIREMENTS

DATE: April 16, 1985
REVISION: 0

REQ. CODE	DESCRIPTION
A	Examine each refueling outage.
B	Examine each inspection period.
C	Can be deferred to end of inspection interval.
D	Examine during first 80 months (IGSCC).
E	Examine 25% - 50% first inspection period, 100% third inspection
F	Examine 16% first inspection period, 50% second inspection period 100% third inspection period.
G	Examine first refueling outage and every three years thereafter.
H	Examine when disassembled.
I	Augmented Feedwater exam - one FFW nozzle each refueling outage.
J	Examine next ISI outage (indication).
K	Augmented high energy line penetrating containment.
L	
M	Partial deferral - if examination done from flange face, rest of
-	examination can be deferred to end of inspection interval.
N	Not ISI examination.
O	Does not require examination.
P	Perform toward or at the end of inspection interval.
Q	Additional examinations due to indication.
R	Examination only when removed.
S	Stainless Steel - identifies all SS welds in program.
T	Steam condensing mode de-energized.
U	Technical specification 3/4.7.4 snubber.

REQ. CODE	DESCRIPTION
V	ASME Section XI Component Support.
V	Type 1 - PSA 1/4 and PSA 1/2.
V	Type 2 - PSA 1, 3 and 10.
V	Type 3 - PSA 35 and 100.
7	Multicomponent component support.
1	Inaccessible component support.
2	Inaccessible during reactor operation.
3	Accessible during reactor operation.
4	Special exam - not Section XI.
5	20% of these welds will be examined at first refueling outage for IGSCC.
6	Weld stress exceeds limits in table 2500-1 Category B-J note (1)(b)
7	Weld stress below limits in table 2500-1 Category B-J note (1)(b)
8	Examine 7.5% of these welds each interval
9	Examine with intersecting circumferential weld



WNP-2 BUILDINGS

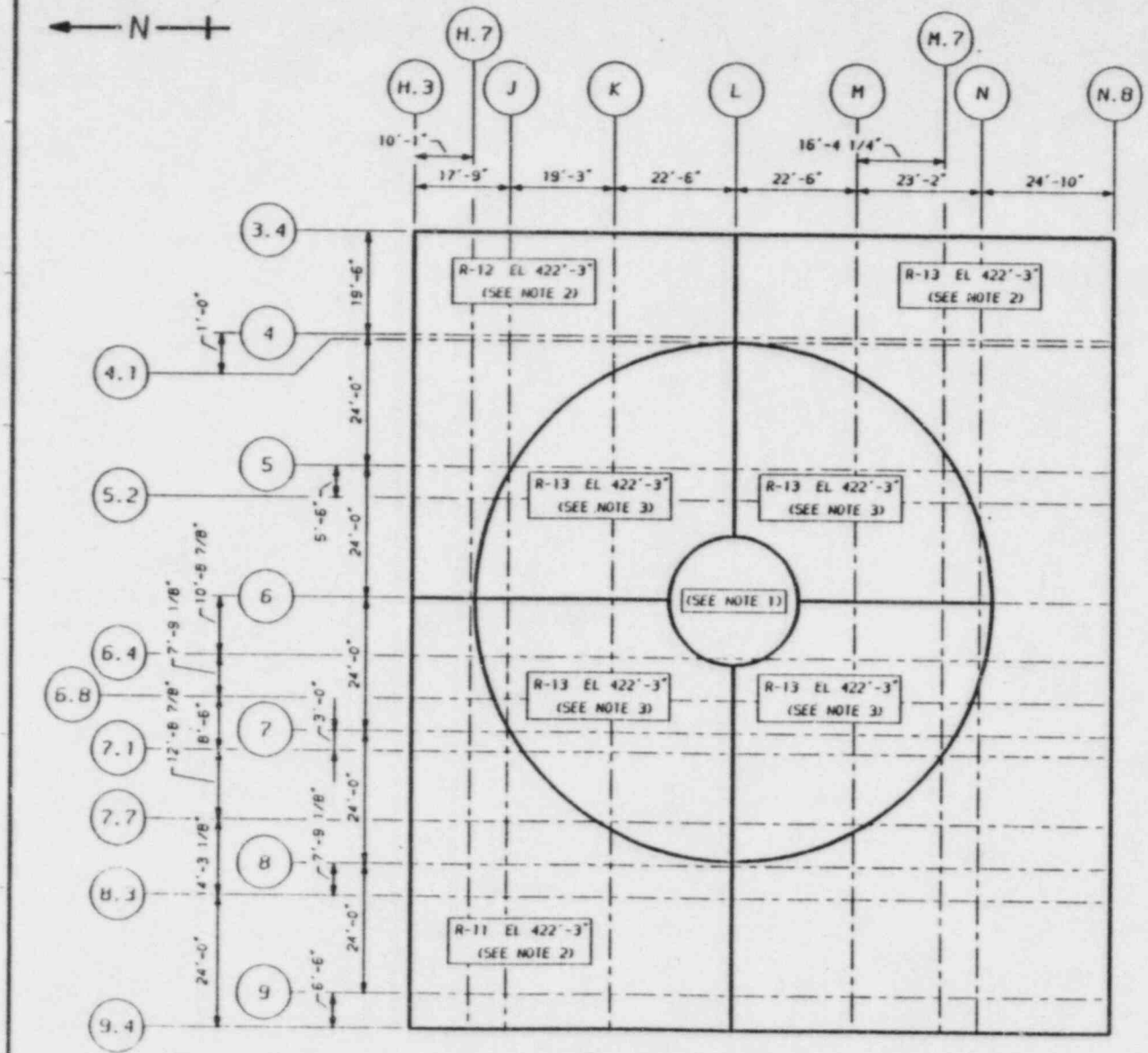
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE: WNP-2
MAJOR COLUMN LINE ORIENTATION
BUILDINGS & PUMP HOUSES

DWG NO. ZN-201



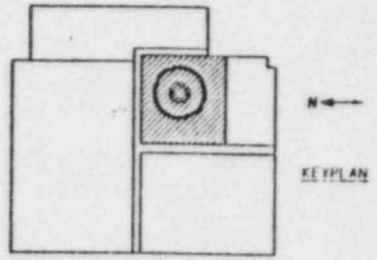
REACTOR BUILDING PLAN

NOTES

1. R-18 EL 422'-3"
   R-28 EL 441'-0"
   R-38 EL 471'-0"
   R-48 EL 501'-0"
   R-58 EL 522'-0"
   R-68 EL 548'-0"
   R-74 EL 572'-0"
   R-81 EL 606'-10 1/2"

2. R-11 R-12 R-13 EL 422'-3"
   R-21 R-22 R-23 EL 441'-0"
   R-31 R-32 R-33 EL 471'-0"
   R-41 R-42 R-43 EL 501'-0"
   R-51 R-52 R-53 EL 522'-0"
   R-61 R-62 R-63 EL 548'-0"
   R-71 R-72 R-73 EL 572'-0"
   R-81 EL 606'-10 1/2"

3. R-14 R-15 R-16 R-17 EL 422'-3"
   R-24 R-25 R-26 R-27 EL 441'-0"
   R-34 R-35 R-36 R-37 EL 471'-0"
   R-44 R-45 R-46 R-47 EL 501'-0"
   R-54 R-55 R-56 R-57 EL 522'-0"
   R-64 R-65 R-66 R-67 EL 548'-0"
   R-74 R-75 R-76 R-77 EL 572'-0"
   R-81 EL 606'-10 1/2"



KEYPLAN

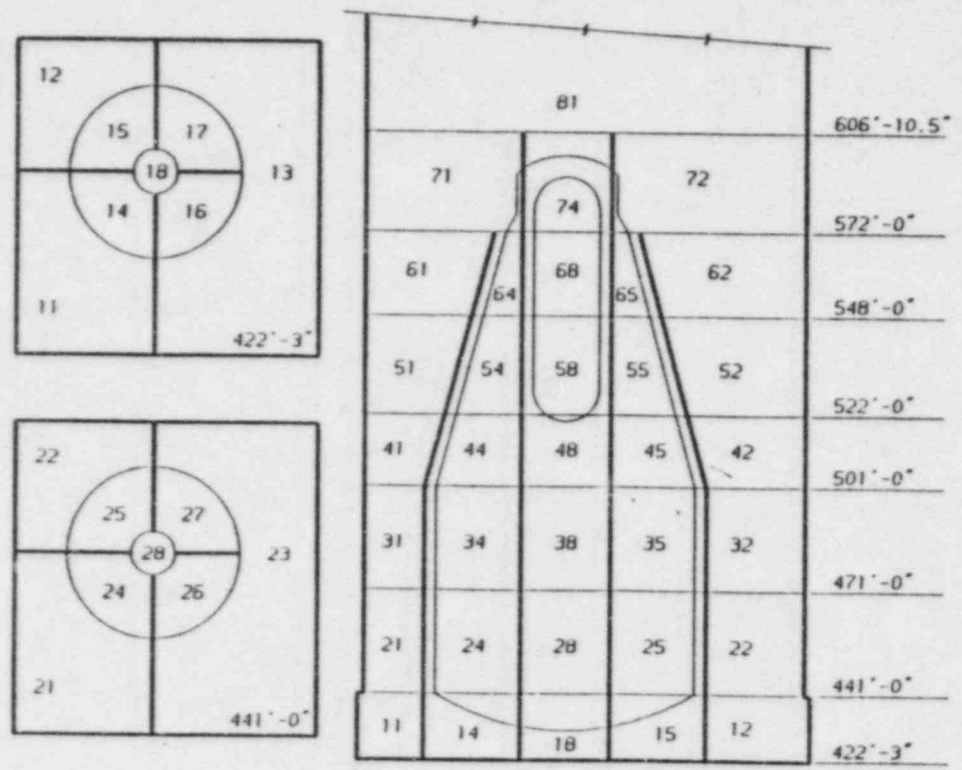
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

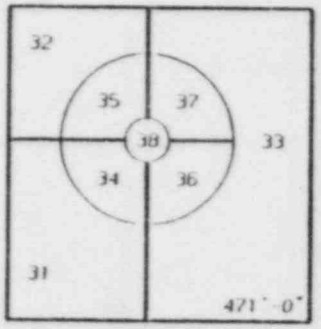
ENGR. K-McANDREW	DRAWN, K-McA	DATE, 1-25-85

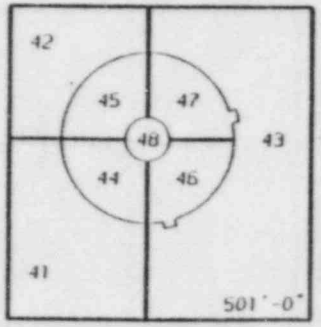
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

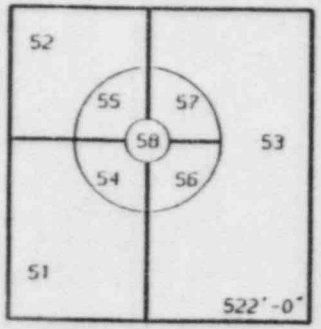
TITLE: WNP-2
ZONE AREAS & ELEVATIONS
REACTOR BUILDING PLAN

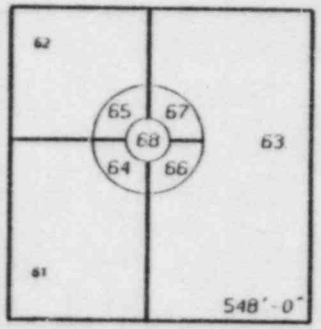
DWG NO: ZN-202

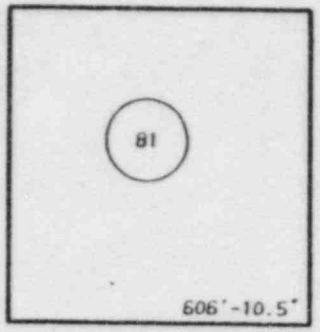


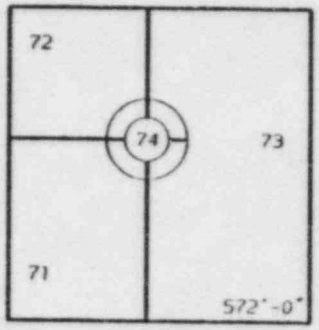


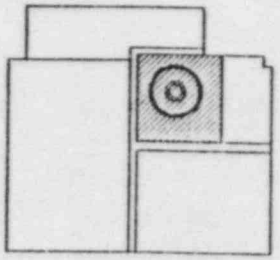












REACTOR BUILDING PLANS & ELEVATIONS

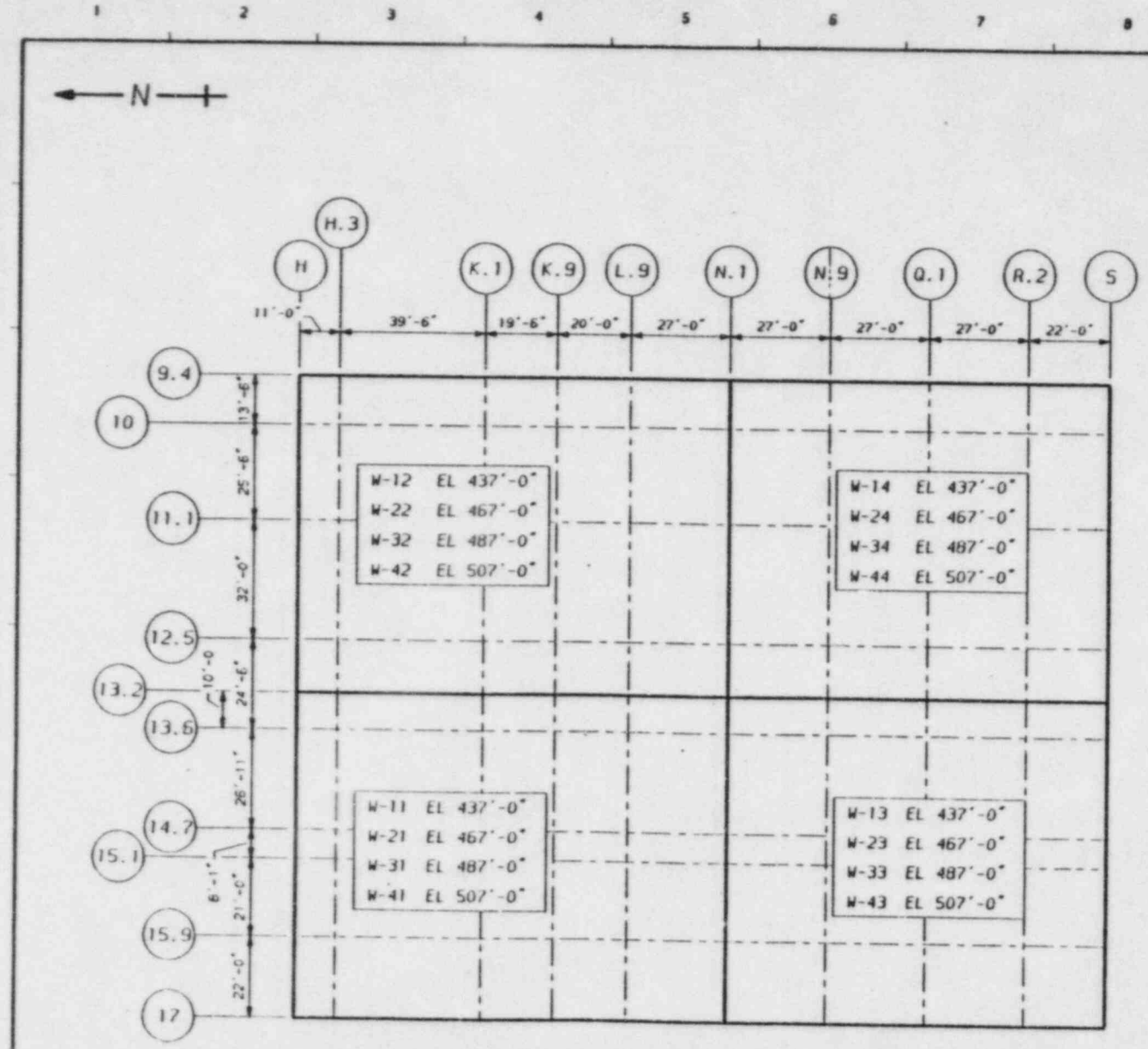
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN: K-McA	DATE: 1-25-85

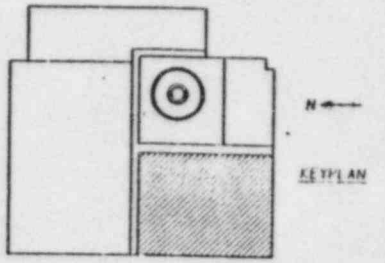
WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE: WNP-2
ZONE AREAS & ELEVATIONS
REACTOR BUILDING PLANS & ELEVATIONS

DWG NO: ZN-203



RADWASTE BUILDING



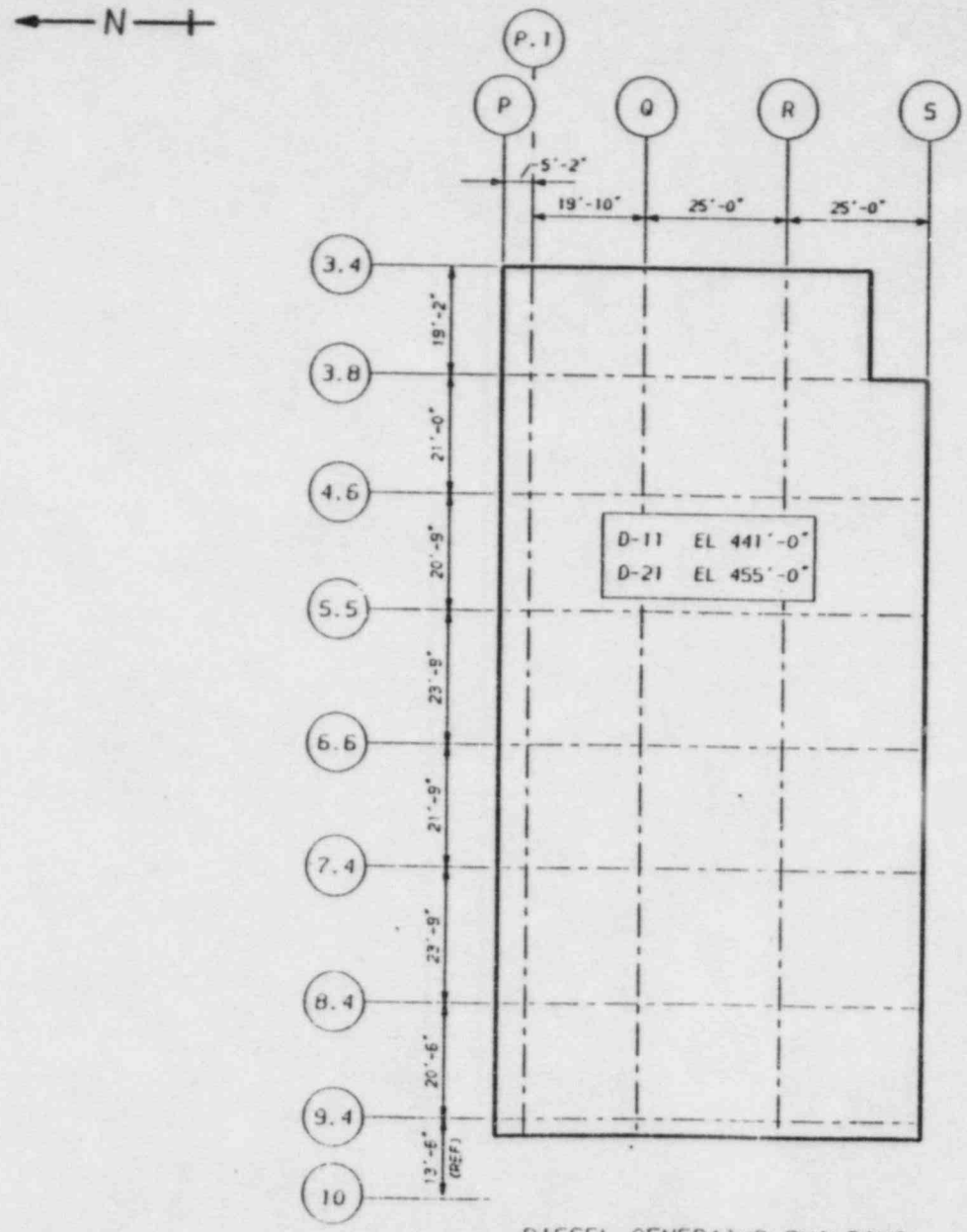
ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

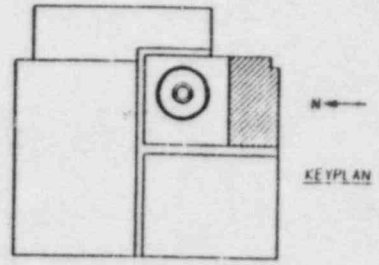
TITLE. WNP-2
ZONE AREAS & ELEVATIONS
RADWASTE BUILDING

DWG NO. ZN-204

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY



DIESEL GENERATOR BUILDING



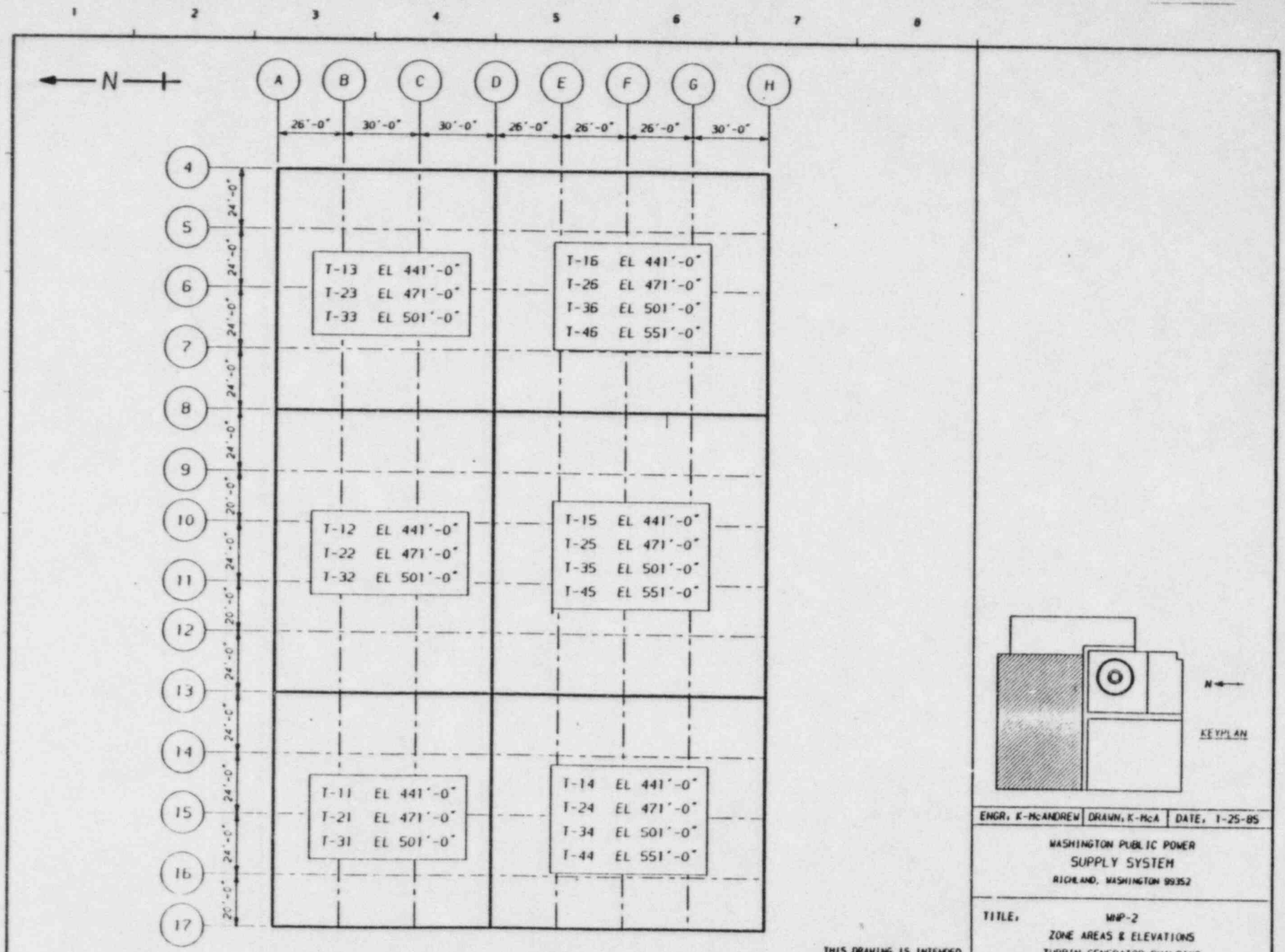
ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE. WNP-2
ZONE AREAS & ELEVATIONS
DIESEL GENERATOR BUILDING

DWG NO. ZN-205

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY



TURBINE GENERATOR BUILDING

KEYPLAN

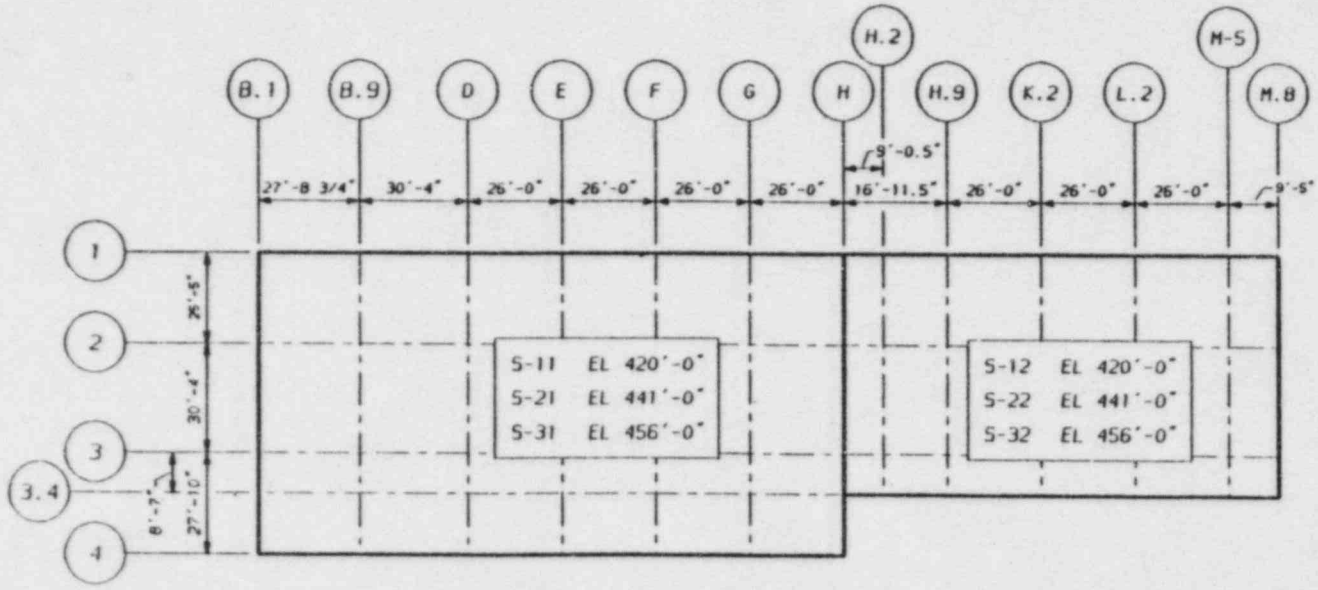
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

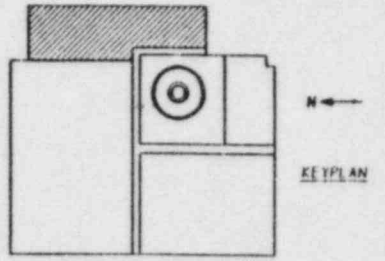
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE: WNP-2
ZONE AREAS & ELEVATIONS
TURBIN GENERATOR BUILDING

DWG NO. ZN-206



SERVICE BUILDING



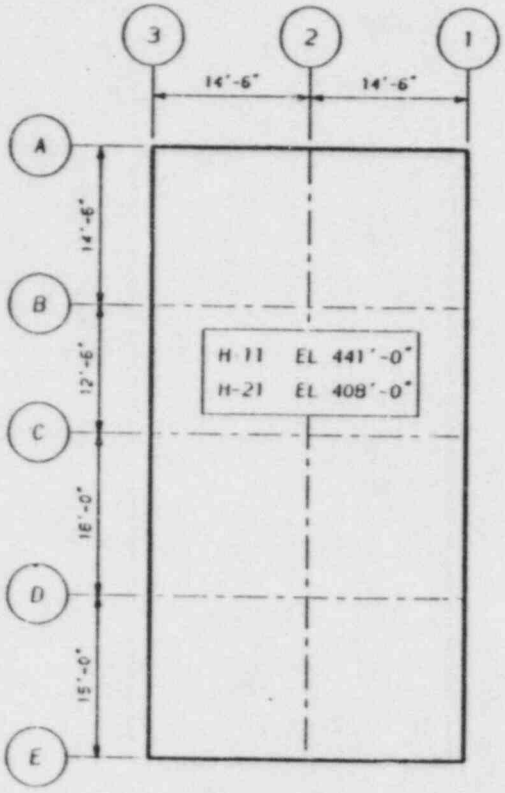
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

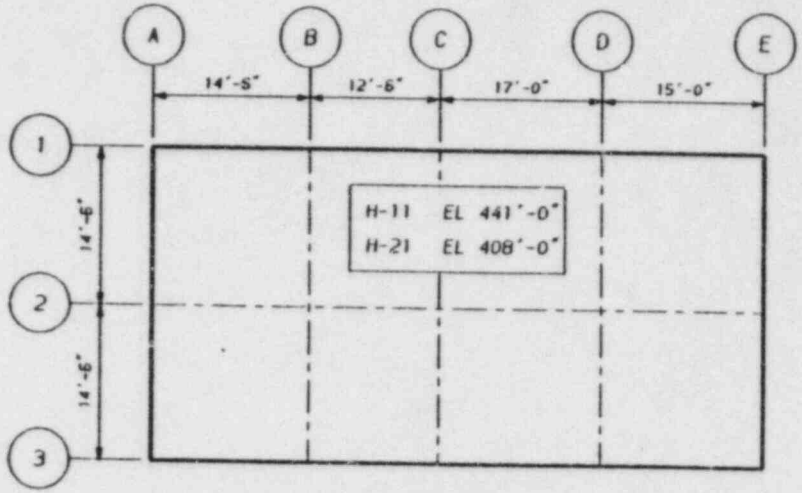
WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE. WNP-2
ZONE AREAS & ELEVATIONS
SERVICE BUILDING

DWG NO. ZN-207



SERVICE WATER PUMP HOUSE 1B



SERVICE WATER PUMP HOUSE 1A

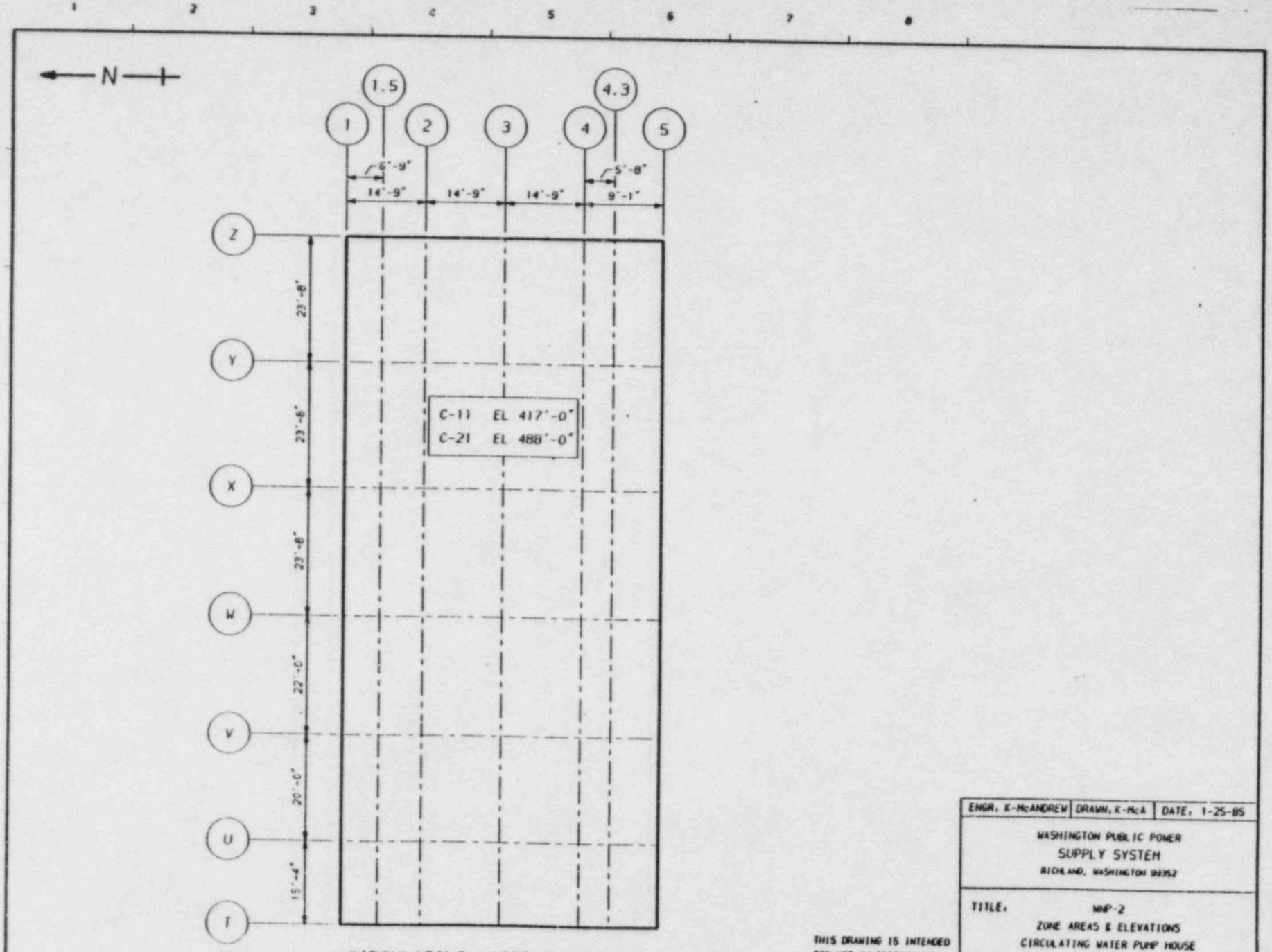
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE: WNP-2
ZONE AREAS & ELEVATIONS
SERVICE WATER PUMP HOUSE 1A & 1B

DWG NO. ZN-208



CIRCULATING WATER PUMP HOUSE

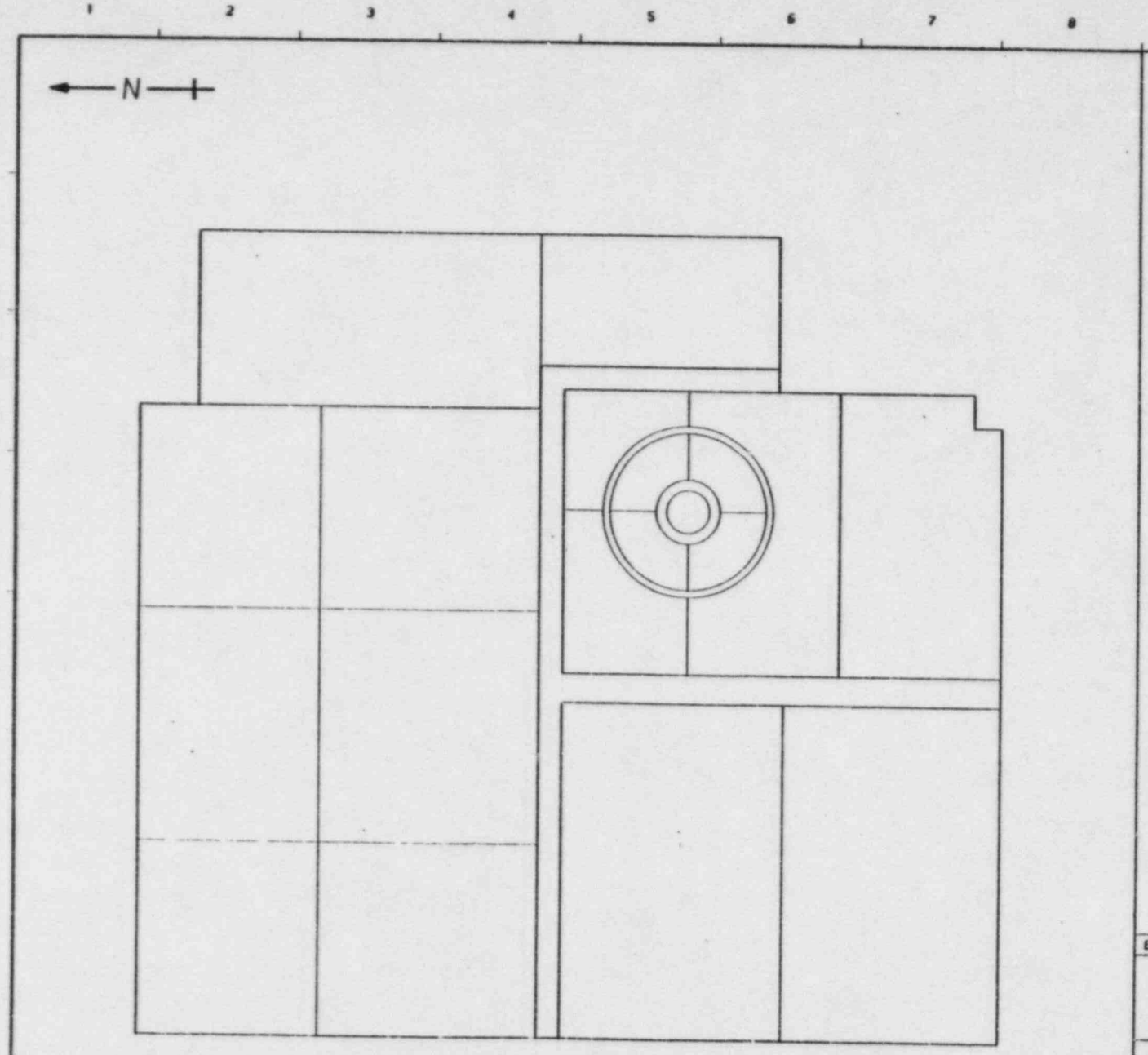
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY

ENGR. K-McANDREW	DRAWN. K-McA	DATE. 1-25-85

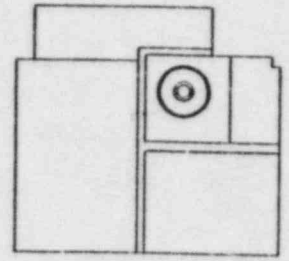
WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE. WNP-2
ZONE AREAS & ELEVATIONS
CIRCULATING WATER PUMP HOUSE

DWG NO. ZN-209



GENERAL ARRANGEMENT



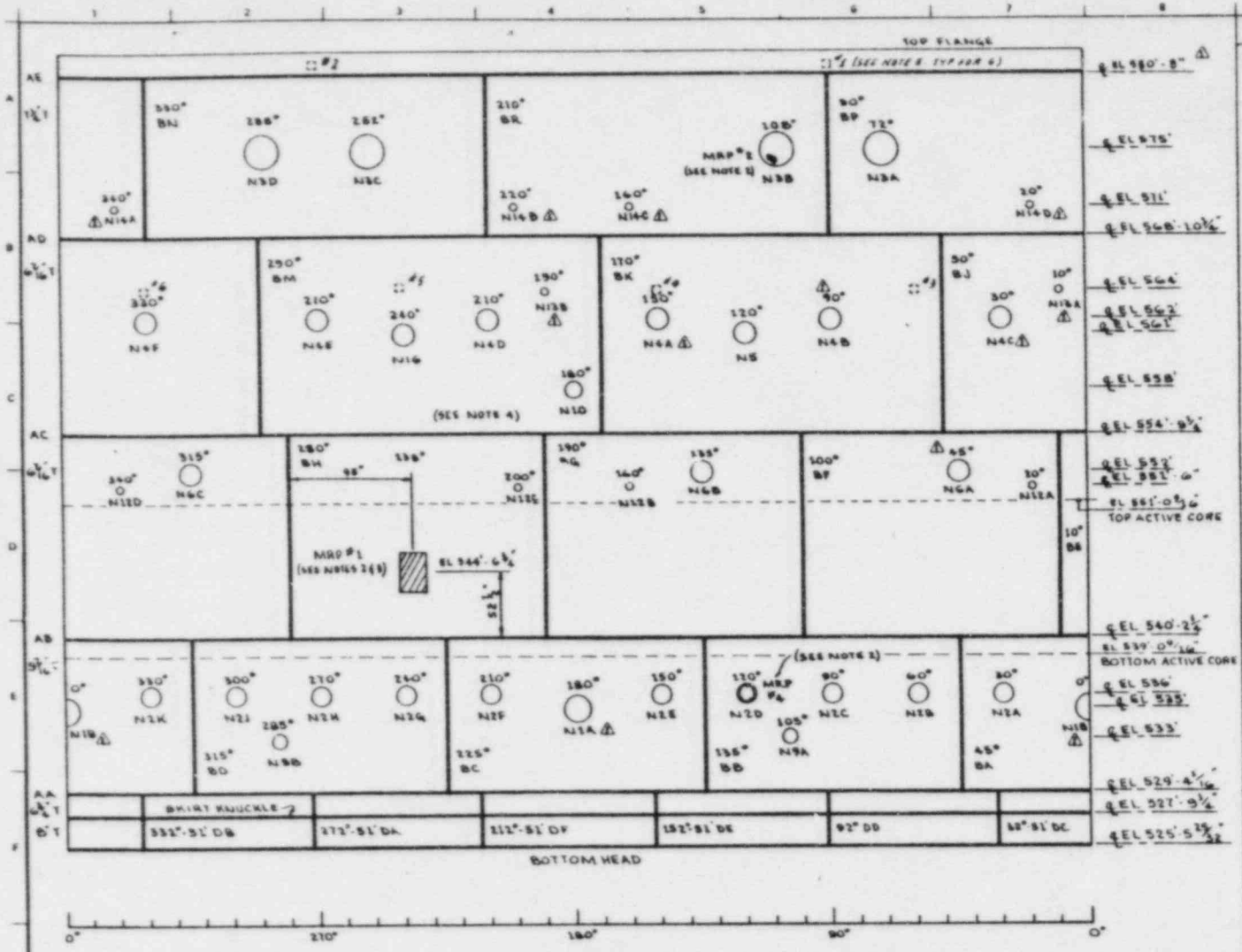
KEYPLAN

ENGR. K. McANDREW	DRAWN. K-HCA	DATE. 1-25-85

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

TITLE. WNP-2
ZONE AREAS & ELEVATIONS
GENERAL ARRANGEMENT

DWG NO. ZN-210



NOTES

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION & CALIBRATION BLOCK REQUIREMENTS.
2. "MRP" INDICATES MAJOR REPAIR AREA. MRP #3 AT N2B NOZZLE TO SAFE END WELD PREP IS NOT SHOWN.
3. MRP #1 IS 2⅜" TO 3⅜" IN DEPTH & IS 15" WIDE BY 30" HIGH. NOTE THAT MRP #1 AREA CENTER IS DIMENSIONALLY REFERENCED.
4. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-115.
5. CLADDING PATCH LOCATIONS:
   #1 @ 90° AZ, #2 @ 270° AZ ARE 21" BELOW FLANGE LIP.
   #3 @ 60° AZ, #4 @ 150° AZ, #5 @ 240° AZ, #6 @ 330° AZ ARE 26" ABOVE THE N4 NOZZLES.

REFERENCES

BURNS & ROE DRAWING
M886 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
REACTOR PRESSURE VESSEL	251	N.A.	7 1/16, 6 1/16, 9 5/16	SA 533 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
9	12-2-81	EL 551'-6" WAS 551' LOWERED ACTIVE CORE LINE TO COINCIDE	K.M.A.	DMR	RJS
7	11-5-80	ADDED ELEVATIONS - ACTIVE CORE	K.M.A.	RJS	RJS
1	3-13-79	REVISED NOZZLE LETTERS, PER AS BUILT. ADDED NOTES 4 & 5	K.M.A.	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	3-13-78	ISSUED FOR INFORMATION ONLY	K.M.A.	DMR	RJS

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: K. HANNAH	DRAWN: K. M. A. DATE: 2-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL ROLL-OUT

DWG NO. RPV-101 REV 9

WIP-02
INTERVAL: C1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: SHL CRS & SKRT KNKL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
AA	BTM HD-SC#1 WD	B-A	B1.11	VOL	UT-118			C	
AB	#1-#2 SC CRC WD	B-A	B1.11	VOL	UT-120			C	
AC	#2-#3 SC CRC WD	B-A	B1.11	VOL	UT-120			C	
AD	#3-#4 SC CRC WD	B-A	B1.11	VOL	UT-120			C	
AE	#4 SC-FL CRC WD	B-A	B1.30	VOL	UT-123			M	
CC	SKIRT KNUCKLE	B-H	B8.10	VOL	UT-119			F	
BA	#1 SC VRT WD84E	B-A	B1.12	VOL	UT-119			C	
BB	#1 SC VRT WB135	B-A	B1.12	VOL	UT-119			C	
BC	#1 SC VRT WB22E	B-A	B1.12	VOL	UT-119			C	

WNP-02
INTERVAL: 1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: SHELL COURSES

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RD	#1 SC VRT W@315	B-A	B1.12	VOL	UT-119			C	
RE	#2 SC VRT W@ 10	B-A	B1.12	VOL	UT-120			C	
RF	#2 SC VRT W@100	B-A	B1.12	VOL	UT-120			C	
RG	#2 SC VRT W@190	B-A	B1.12	VOL	UT-120			C	
RH	#2 SC VRT W@280	B-A	B1.12	VOL	UT-120			C	
RJ	#3 SC VRT W@ 50	B-A	B1.12	VOL	UT-120			C	
RK	#3 SC VRT W@170	B-A	B1.12	VOL	UT-120			C	
RL	#3 SC VRT W@290	B-A	B1.12	VOL	UT-120			C	
RP	#4 SC VRT W@330	B-A	B1.12	VOL	UT-121			C	
RR	#4 SC VRT W@ 90	B-A	B1.12	VOL	UT-121			C	
	#4 SC VRT W@210	B-A	B1.12	VOL	UT-121			C	

WNP-02
INTERVAL: 01
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N1-0	RRC N2-V @ 0	B-D	B3.90	VOL	UT-119			E	
N1-0-IR	RRC N2-IR @ 0	B-D	B3.100	VOL				E	INNER RADIUS
N1-180	RRC N2-V @ 180	B-D	B3.90	VOL	UT-119			E	
N1-180-IR	RRC N2-IR @ 180	B-D	B3.100	VOL				E	INNER RADIUS
N2-30	RRC N2-V @ 30	B-D	B3.90	VOL	UT-119			E	
N2-30-IR	RRC N2-IR @ 30	B-D	B3.100	VOL				E	INNER RADIUS
N2-60	RRC N2-V @ 60	B-D	B3.90	VOL	UT-119			E	
N2-60-IR	RRC N2-IR @ 60	B-D	B3.100	VOL				E	INNER RADIUS
N2-90	RRC N2-V @ 90	B-D	B3.90	VOL	UT-119			E	
N2-90-IR	RRC N2-IR @ 90	B-D	B3.100	VOL				E	INNER RADIUS
N2-120	RRC N2-V @ 120	B-D	B3.90	VOL	UT-119			E	SEE MRP-4
N2-120-IR	RRC N2-IR @ 120	B-D	B3.100	VOL				E	INNER RADIUS
N2-150	RRC N2-V @ 150	B-D	B3.90	VOL	UT-119			E	
N2-150-IR	RRC N2-IR @ 150	B-D	B3.100	VOL				E	INNER RADIUS
N2-210	RRC N2-V @ 210	B-D	B3.90	VOL	UT-119			E	

WNP-2
INTERVAL: 1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N2-210-IR									
	RPC N7-IR @ 210	B-D	B3.100	VOL				E	INNER RADIUS
N2-240									
	RPC N7-V @ 240	B-D	B3.90	VOL	UT-119			E	
N2-240-IR									
	RPC N7-IR @ 240	B-D	B3.100	VOL				E	INNER RADIUS
N2-270									
	RPC N7-V @ 270	B-D	B3.90	VOL	UT-119			E	
N2-270-IR									
	RPC N7-IR @ 270	B-D	B3.100	VOL				E	INNER RADIUS
N2-300									
	RPC N7-V @ 300	B-D	B3.90	VOL	UT-119			E	
N2-300-IR									
	RPC N7-IR @ 300	B-D	B3.100	VOL				E	INNER RADIUS
N2-330									
	RPC N7-V @ 330	B-D	B3.90	VOL	UT-119			E	
N2-330-IR									
	RPC N7-IR @ 330	B-D	B3.100	VOL				E	INNER RADIUS
N3-72									
	MS N7-V @ 72	B-D	B3.90	VOL	UT-121			E	
N3-72-IR									
	MS N7-IR @ 72	B-D	B3.100	VOL				E	INNER RADIUS
N3-108									
	MS N7-V @ 108	B-D	B3.90	VOL	UT-121			E	SEE MRP-2
N3-108-IR									
	MS N7-IR @ 108	B-D	B3.100	VOL				E	INNER RADIUS
N3-252									
	MS N7-V @ 252	B-D	B3.90	VOL	UT-121			E	
N3-252-IR									
	MS N7-IR @ 252	B-D	B3.100	VOL				E	INNER RADIUS
N3-298									
	MS N7-V @ 298	B-D	B3.90	VOL	UT-121			E	

WNP-02
INTERVAL: 01
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N3-288-IR									
	MS NZ-IR @ 288	B-D	B3.100	VOL				E	INNER RADIUS
N4-30									
	FW NZ-V @ 30	B-D	B3.90	VOL	UT-120			EI	
N4-30-IR									
	FW NZ-IR @ 30	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-30-NB									
	FW NZ BORE @ 30	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N4-90									
	FW NZ-V @ 90	B-D	B3.90	VOL	UT-120			EI	
N4-90-IR									
	FW NZ-IR @ 90	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-90-NB									
	FW NZ BORE @ 90	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N4-150									
	FW NZ-V @ 150	B-D	B3.90	VOL	UT-120			EI	
N4-150-IR									
	FW NZ-IR @ 150	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-150-NB									
	FW NZ BORE @150	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N4-210									
	FW NZ-V @ 210	B-D	B3.90	VOL	UT-120			EI	

WNP-02
INTERVAL: 01
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N4-210-IR	FW NZ-IR @ 210	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-210-NB	FW NZ BORE @210	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N4-270	FW NZ-V @ 270	B-D	B3.90	VOL	UT-120			EI	
N4-270-IR	FW NZ-IR @ 270	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-270-NB	FW NZ BORE @270	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N4-330	FW NZ-V @ 330	B-D	B3.90	VOL	UT-120			EI	
N4-330-IR	FW NZ-IR @ 330	B-D	B3.100	VOL	UT-120			EI	INNER RADIUS. PT REQ'D ONLY IF UT
			B3.100	SUR				EI	REVEALS IND.
N4-330-NB	FW NZ BORE @330	B-D	B3.100	VOL	UT-120			EI	NOZZLE BORE
N5-120	LPCS NZ-V @ 120	B-D	B3.90	VOL	UT-120			E	
N5-120-IR	LPCS NZ-IR @120	B-D	B3.100	VOL	UT-120			E	INNER RADIUS
N6-45	LPCS NZ-V @ 45	B-D	B3.90	VOL	UT-120			E	
N6-45-IR	LPCS NZ-IR @ 45	B-D	B3.100	VOL	UT-120			E	INNER RADIUS
N6-135	LPCS NZ-V @ 135	B-D	B3.90	VOL	UT-120			E	

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INTERVAL: 01
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N6-135-IR									
	LPCS NZ-IR @135	B-D	B3.100	VOL	UT-120			E	INNER RADIUS
N6-315									
	LPCS NZ-V @ 315	B-D	B3.90	VOL	UT-120			E	
N6-315-IR									
	LPCS NZ-IR @315	B-D	B3.100	VOL	UT-120			E	INNER RADIUS
N9-105									
	JP IN-NZ-V @105	B-D	B3.90	VOL	UT-119			E	
N9-105-IR									
	JP IN-NZ-IR@105	B-D	B3.100	VOL	UT-119			E	INNER RADIUS
N9-285									
	JP IN-NZ-V @285	B-D	B3.90	VOL	UT-119			E	
N9-285-IR									
	JP IN-NZ-IR@285	B-D	B3.100	VOL	UT-119			E	INNER RADIUS
4JP(NZ)A-1									
	N-9 NZ-SE @ 105	B-F	B5.10	VOL	UT-109			DS5	SHOWN ON RPV-115
			B5.10	SUR				DS5	DISSIMILAR WELD SS TO INCO.
4JP(NZ)A-2									
	N9 SE-PN SL@105	B-F	B5.50	VOL	UT-29			DS5	SHOWN ON RPV-115
			B5.50	SUR				DS5	DISSIMILAR WELD CS TO SS.
4JP(NZ)B-1									
	N9 NZ-SE @ 285	B-F	B5.10	VOL	UT-109			DS5	SHOWN ON RPV-115
			B5.10	SUR				DS5	DISSIMILAR WELD SS TO INCO.
4JP(NZ)B-2									
	N9 SE PN SL@285	B-F	B5.50	VOL	UT-29			DS5	SHOWN ON RPV-115
			B5.50	SUR				DS5	DISSIMILAR WELD CS TO SS.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N10-180	CRD NZ-V @180	B-D	B3.90	VOL	UT-120			E	(CAPPED)
N10-180-IR	CRD NZ-IR@180	B-D	B3.100	VOL	UT-120			E	INNER RADIUS
5CRD(NZ)-1	CRD NZ-SE @180	B-J	B9.11	VOL	UT-110			F	SHOWN ON RPV-113
			B9.11	SUR				F	
3CRD(NZ)-1	CRD SE-CAP @180	B-J	B9.21	SUR				F	SHOWN ON RPV-113
N16-240	HPCS NZ-V @ 240	B-D	B3.90	VOL	UT-120			E	
N16-240-IR	HPCS NZ-IR @240	B-D	B3.100	VOL				E	INNER RADIUS
N12	VESS INST PENT	B-E	B4.13	VT-2				C	N12A @20, N12B @160 N12C @200, N12D @340
N13	VESS INST PENT	B-E	B4.13	VT-2				C	N13A @10, N13B @190
N14	VESS INST PENT	B-E	B4.13	VT-2				C	N14A @340, N14B @220 N14C @160, N14D @20
N17	FLG SEAL LK PEN	P-E	B4.13	VT-2				C	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: MAJOR REPAIR AREAS

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
MRP-1	REPAIR AREA	B-A	B1.51	VOL	UT-120			C	
MRP-2	REPAIR AREA	N/A	N/A	N/A				O	NO EXAM REQ'D. NOT IN BELTLINE REGION; BUT WILL BE EXAM'D DURING N3-108 SHELL WELD EXAM.
MRP-3	REPAIR AREA	N/A	N/A	N/A				O	NO EXAM REQ'D NOT IN BELTLINE REGION. N2-150 (RRC) REPAIR ADJACENT TO NZ-SE WELD 3X3/4X11/16 ID
MRP-4	REPAIR AREA	N/A	N/A	N/A				O	NO EXAM REQ'D NOT IN BELTLINE REGION; BUT WILL BE EXAM'D DURING N2-120 NZ TO SHELL WELD EXAM.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-1A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-2A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-3A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-4A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-5A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-6A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-7A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-8A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-9A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-10A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-11A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-12A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-13A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-14A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-15A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

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SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-16A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-17A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-18A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-19A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-20A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-21A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-22A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-23A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-24A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-25A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-26A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-27A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-28A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-29A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-30A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-31A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-32A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-33A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-34A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-35A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	BUSHING INSTALLED
			B6.30	SUR				R	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-36A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-37A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-38A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-39A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-40A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	

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ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-41A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-42A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-43A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-44A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-45A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-46A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-47A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-48A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-49A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-50A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-51A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-52A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-53A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-54A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-55A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-56A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-57A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-58A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-59A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-60A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	

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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-61A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-62A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-63A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-64A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-65A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STUD 35-1-66A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-67A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-68A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-69A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV STUD 35-1-70A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	

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RPV STUD 35-1-71A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-72A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-73A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-74A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
RPV STUD 35-1-75A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ
			B6.30	SUR				R	NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.

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RPV STUD 35-1-76A									
	RPV STUD	B-G-1	B6.20	VOL	UT-130			C	STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			B6.30	SUR				R	
RPV NUT 36-1-1A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-2A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-3A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-4A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-5A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-6A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-7A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-8A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-9A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-10A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-11A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-12A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-13A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-14A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-15A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-16A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-17A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-18A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-19A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-20A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-21A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-22A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-23A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-24A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-25A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-26A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-27A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-28A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-29A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-30A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-31A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-32A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-33A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-34A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-35A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-36A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-37A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-38A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-39A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-40A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-41A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-42A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-43A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-44A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-45A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-46A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-47A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-48A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-49A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-50A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-51A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-52A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-53A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV NUT 36-1-54A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-55A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-56A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-57A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-58A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-59A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-60A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-61A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-62A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-63A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-64A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-65A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-66A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-67A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-68A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-69A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-70A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-71A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-72A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-73A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-74A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV NUT 36-1-75A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	

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RPV NUT 36-1-76A									
	RPV NUT	B-G-1	B6.10	VOL	UT-132			C	
			B6.10	SUR				C	
RPV WASHERS									
	RPV WASHER-76EA	B-G-1	B6.50	VT-1				C	
RPV BUSHING									
	RPV BUSHING	B-G-1	B6.50	VT-1				C	RPV BUSHING IS LOCATED AT FLANGE HOLE #35
RPV THREADS									
	THREADS-RPV FLG	B-G-1	B6.40	VOL	UT-123			C	
RPV LIGAMENTS									
	RPV FLG LIGMTS	B-G-1	B6.40	VOL	UT-123			C	
JET PUMP BEAMS									
	JP HLD DWN BMS	N/A	N/A/	VT-1			R5	N	FIRST EXAM 5 YEARS AFTER C.O. THAN EXAM EVERY 2 YR
CORE SPRAY SPARGERS									
	CORE SPRAY SPG	N/A	N/A	VT-1				AN	EXAM REQ'D EVERY REFUELING OUTAGE
RPV INTERIOR									
	RPV INTERIOR	B-N-1	B13.10	VT-3				G	
RPV CORE SUPPORTS									
	CORE SUPPORTS	B-N-2	B13.20	VT-1				C	INTEGRALLY WELDED CORE SUP STRUCTURES.
RPV STAB 45									
	STABLIZER	IWF	F-X	VT3H				F	
RPV STAB 135									
	STABLIZER	IWF	F-X	VT3H				F	
RPV STAB 225									
	STABLIZER	IWF	F-X	VT3H				F	

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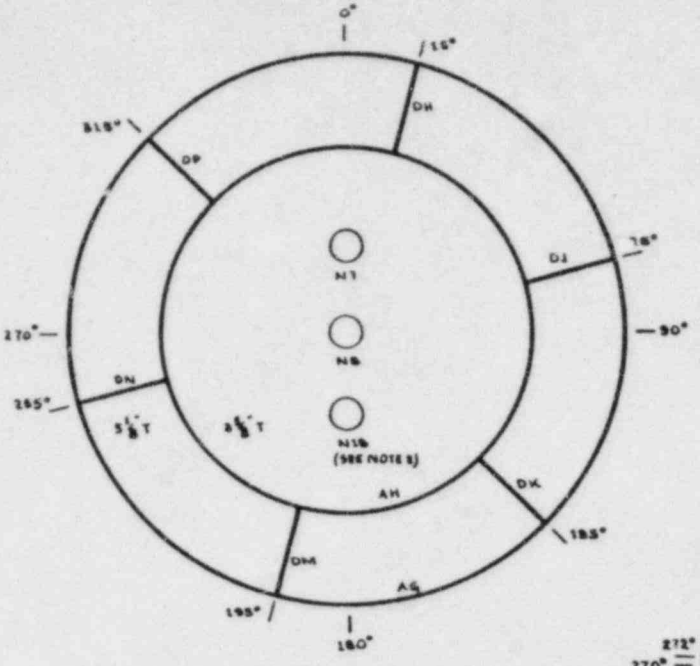
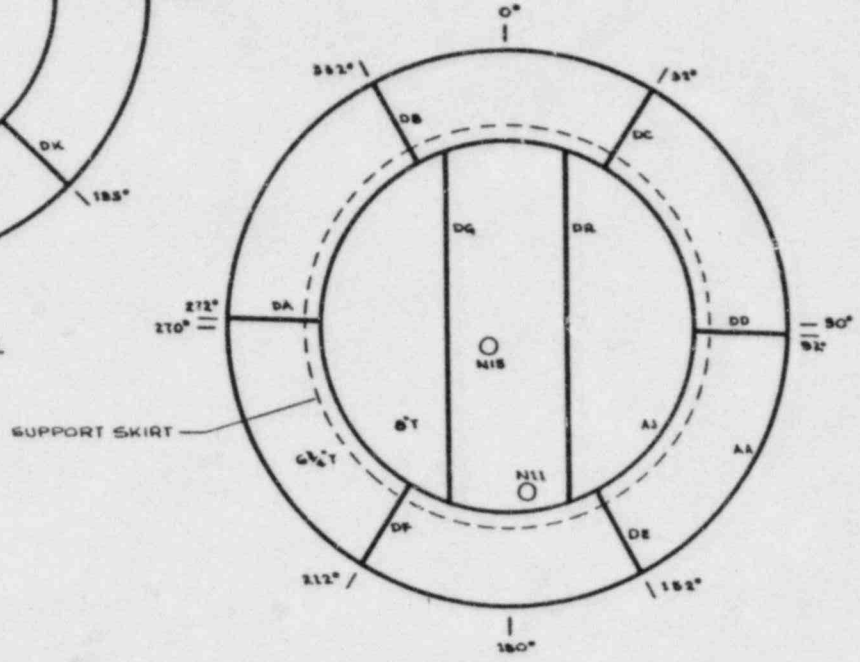
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RPV STAB 315	STABLIZER	IWF	F-X	VT3H				F	
RPV INTERIOR ATTACH	INTERIOR ATTACH	B-N-2	B13.20	VT-1				C	INTEGRALLY WELDED INTERIOR ATTACHMENTS
RPV(CS)	SKIRT & BAS PLT	IWF	F-X	VT3H				F	
RPV-PR-101(H)	HYDRO PRES BNDR	B-P	B15.11	VT-2				P	
RPV-PR-101(L)	LK PRES BNDR	B-P	B15.10	VT-2				A	



TOP HEAD ASSEMBLY (RPV)

PLAN VIEW



BOTTOM HEAD ASSEMBLY (RPV)

INSIDE PLAN VIEW

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION CALIBRATION BLOCK REQUIREMENTS.
2. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-111

REFERENCES

QUALITY CLASS:	ASME CODE CLASS:	
ENGR: G. A.K.R.E	DRAWN: K.M.J. A.	DATE: 3-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
TOP HEAD	251	NA	$3\frac{5}{8}$, $5\frac{1}{8}$	SA 508 GR B	CS	NOTE 1
BOTTOM HEAD	251	NA	$6\frac{1}{2}$, 8	SA 508 GR B	CS	NOTE 1

WNP 1
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR PRESSURE VESSEL TOP & BOTTOM HEAD WELDS

DWG NO: RPV-102 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	4-2-81	INDICATED VESSEL SKIRT (DASHED)	[illegible]	[illegible]	[illegible]
1	8-30-79	ADDED NOTE 2.	[illegible]	[illegible]	[illegible]
0	11-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	6-27-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WNP-02
INTERVAL: 01
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: TOP & BOTTOM HEAD

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
DA	BOT HD MRD @272	B-A	B1.22	VOL	UT-118			C	
DB	BOT HD MRD @332	B-A	B1.22	VOL	UT-118			C	
DC	BOT HD MRD @ 32	B-A	B1.22	VOL	UT-118			C	
DD	BOT HD MRD @ 92	B-A	B1.22	VOL	UT-118			C	
DE	BOT HD MRD @152	B-A	B1.22	VOL	UT-118			C	
DF	BOT HD MRD @212	B-A	B1.22	VOL	UT-118			C	
AJ	BOT HD DOL WELD	B-A	B1.21	VOL	UT-117 UT-118			C	8"THK. TO 6 3/4 THK.
DG	BOT HD DOL /270	B-A	B1.21	VOL	UT-117			C	
DR	BOT HD DOL / 90	B-A	B1.21	VOL	UT-117			C	
AG	TOP HD-FLG WELD	B-A	B1.40	VOL	UT-116			M	
AH	TOP HD DOL PLT	B-A	B1.21	VOL	UT-115 UT-116			C	5 1/8" TO 3 5/8" THK
DH	TOP HD MRD @15	B-A	B1.22	VOL	UT-116			C	
DJ	TOP HD MRD @75	B-A	B1.22	VOL	UT-116			C	
DK	TOP HD MRD @135	B-A	B1.22	VOL	UT-116			C	
DM	TOP HD MRD @195	B-A	B1.22	VOL	UT-116			C	

WNP-02
INTERVAL: 01
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: TOP & BOTTOM HEAD

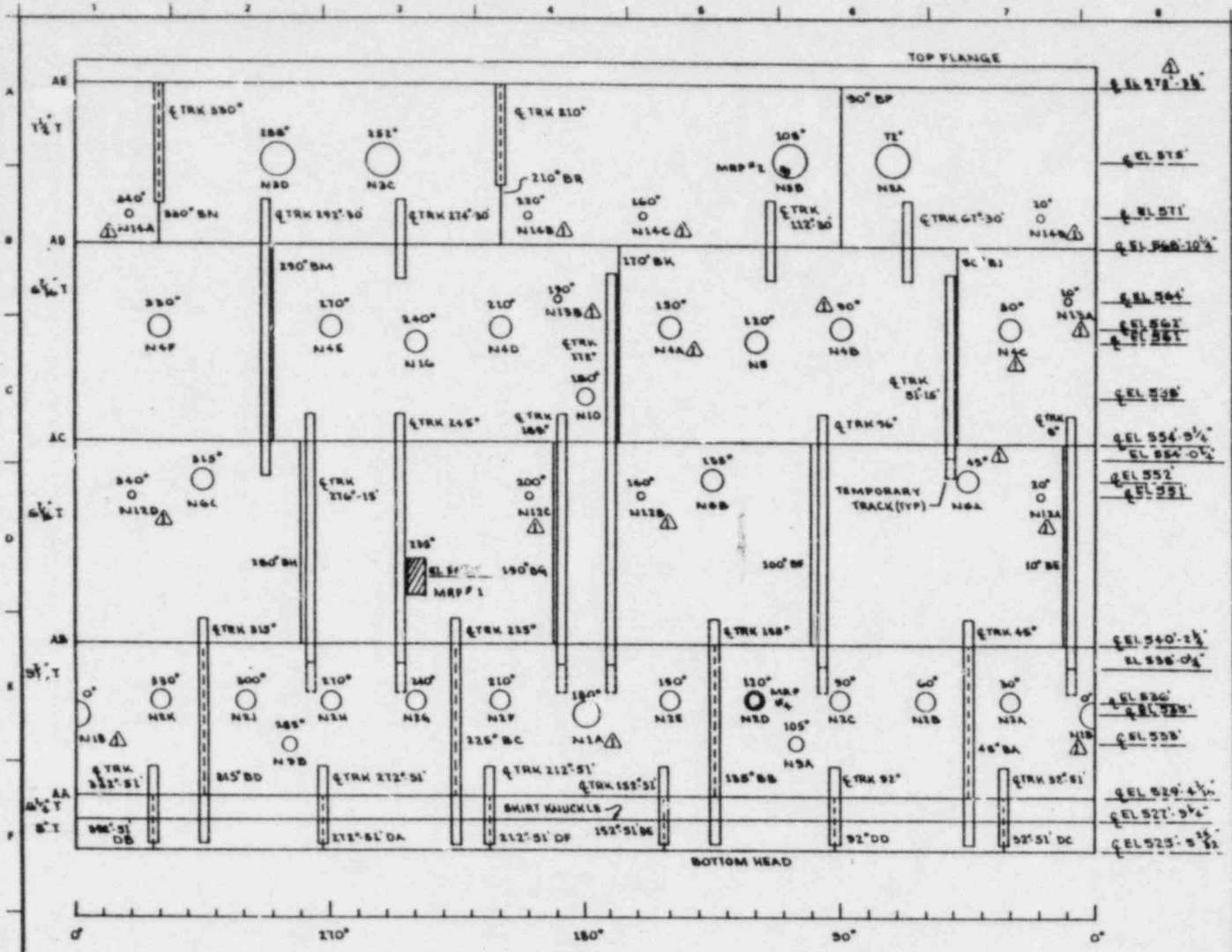
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
DN									
	TOP HD MRD @255	B-A	B1.22	VOL	UT-116			C	
DP									
	TOP HD MRD @315	B-A	B1.22	VOL	UT-116			C	

WNP-02
INTERVAL: 01
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: TOP & BTM HD NOZZLES

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
N7	HD SP NZ-HD TOP	B-D	B3.90	VOL	UT-115			E	
N7-IR	HD SP NZ-HD IR	B-D	B3.100	VOL	UT-122			E	INNER RADIUS
N8	HD VN NZ-HD TOP	B-D	B3.90	VOL	UT-115			E	
N8-IR	HD VN NZ-HD IR	B-D	B3.100	VOL	UT-122			E	INNER RADIUS
N18	SPARE NZ-TOP HD	B-D	B3.90	VOL	UT-115			E	
N18-IR	SPARE NZ-TOP IR	B-D	B3.100	VOL	UT-122			E	INNER RADIUS
6SPARE-1	SPARE NZ-FLANGE	B-J	B9.11 B9.11	VOL SUR	UT-107			F F	SHOWN ON RPV-111
6SPARE-1BU	FLANGE BOLTING	B-G-2	B7.10	VT-1				F	SHOWN ON RPV-111
N11	SLC BTM HD PEN	B-E	B4.11	VT-2				C	
N15	BTM HD DRAIN	B-E	B4.11	VT-2				C	
CRD	CRD PEN (185EA)	B-E	B4.12	VT-2				C	
CRD HOUSING BLT	CRD HOUSING BLT	B-G-2	B7.80	VT-1				H	
INCORE	INCOR PEN(55EA)	B-E	B4.11	VT-2				C	
RPV-PB-102(L)	LK PRES BNDRY	B-P	B15.11	VT-2				P	
RPV-PB-102(H)	HYDRO PRES BNDR	B-P	B15.10	VT-2				A	



NOTES:

REFERENCES:

BURNS & ROE DRAWING
M 886 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO

NO	DATE	REVISION	BY	CHKD	APPVD
1	2-12-79	REVISED NOZZLE LETTERING, PER AS BUILT	K.M.A.		
0	12-13-78	ISSUED FOR USE	K.M.A.		
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.M.A.	D.A.P.	D.A.P.

QUALITY CLASS: 1	ASME CODE CLASS: N.A.	
ENGR: D. PORTER	DRAWN: K. M. L. A.	DATE: 2-24-78

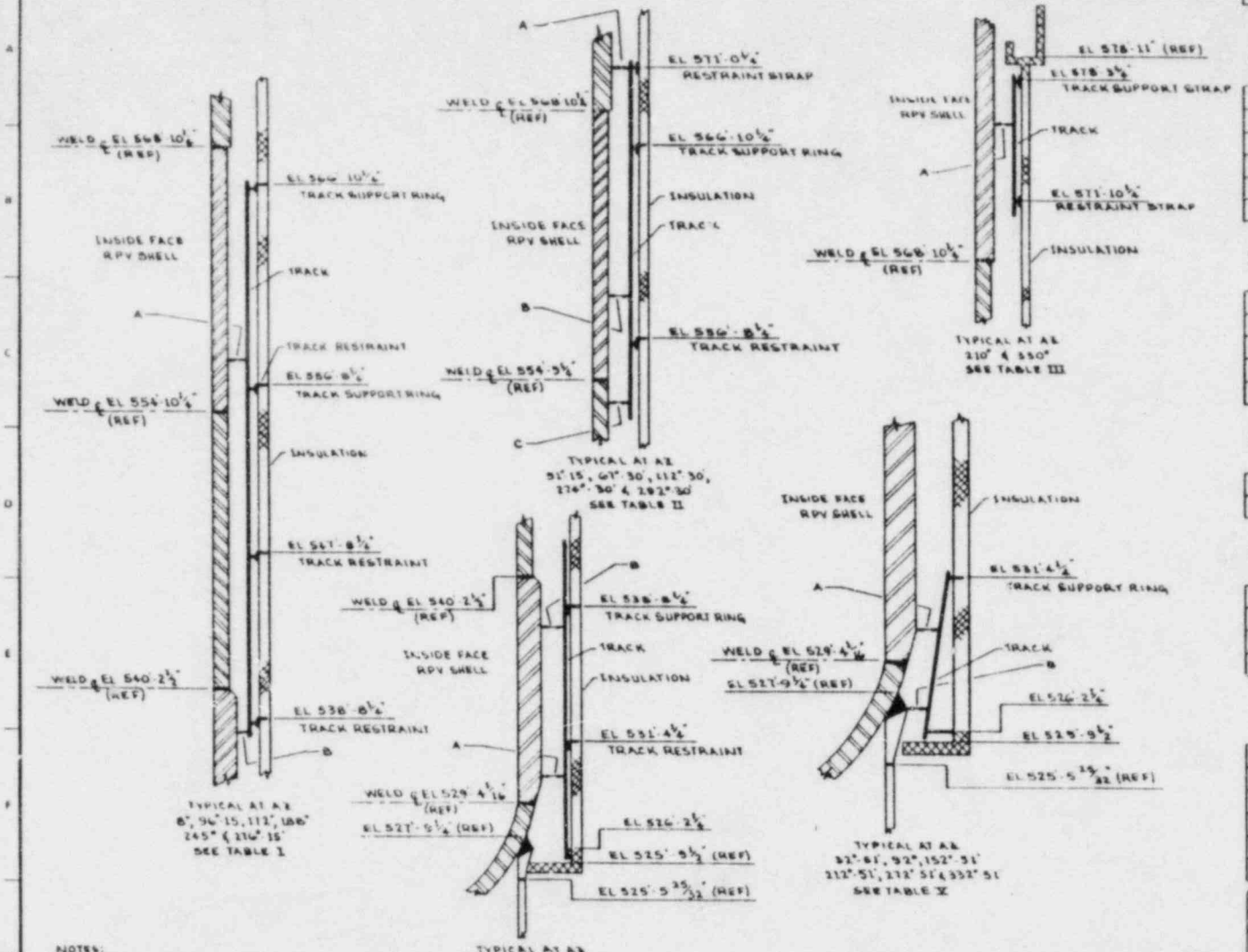
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL
POLE TRACK LOCATION

DWG NO: RPV-103 REV 1



NOTES:
1. "AS BUILT" MIN DIM TO ESTABLISH MIN CLEARANCE FOR MECHANIZED CRAWLER - TO GEAR RACK OR POLE.
2. "*" INDICATES, FACING VESSEL

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

TABLE I	A	B	* LEFT POLE AT B	* RIGHT POLE AT B	LEFT POLE AT A	RIGHT POLE AT A
8°		1½	6			
96° 15		6⅛	6	6		
172°	10	7	6½	6⅜	9¼	9½
188°		6½	6½	5½		
245°		7¼	6½	6⅜		
276° 15'		IN ACCESSIBLE				

TABLE II	A	B	C	LEFT POLE AT A	RIGHT POLE AT A
51° 15'			10	9⅛	
67° 30'					
112° 30					
274° 30					
292° 30	9⅛		10¼	9¼	

TABLE III	A	B
210°		
330°		

TABLE IV	A	B	* LEFT POLE AT B	* RIGHT POLE AT B
45°	6⅜	7⅛	6½	6⅜
135°	6⅜	7⅛	6½	6⅜
225°	6¼	7	6½	6½
315°	6¼	7	6⅜	6⅜

TABLE V	A	B
82° 61'	6¼	6¼
92°	6¼	6¼
152° 31'	6½	6⅜
212° 31'	6¼	7⅛
272° 31'	6½	7⅛
332° 31'	6	7⅛

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO

NO	DATE	REVISION	BY	CHKD	APPVD
A	5-17-78	ISSUED FOR INFORMATION ONLY	KMA		

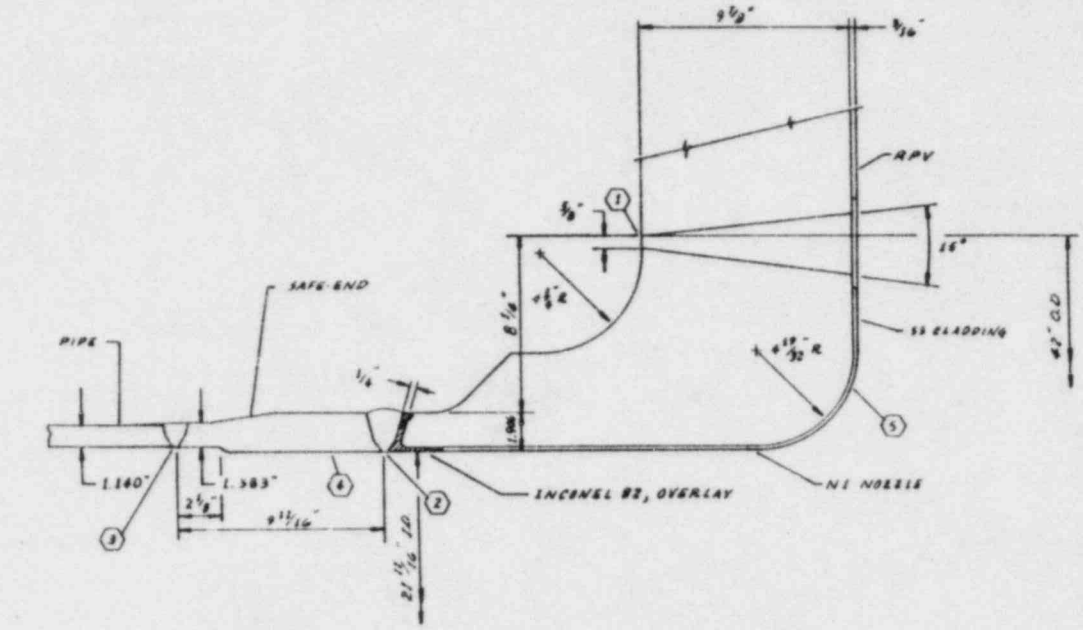
QUALITY CLASS 1	ASME CODE CLASS 1	
ENGR D PORTER	DRAWN K M. S A.	DATE 2-24-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE
RPV POLE TRACKS
SECTION VIEWS & AS-BUILT CLEARANCES

DWG NO RPV-104 REV A



WELDS

1. N1A 180° LOOP A
   N1B 0° LOOP B
2. 24 RRC(2)A-1 180° LOOP A
   24 RRC(2)B-1 0° LOOP B
3. 24 RRC(2)A-2 180° LOOP A
   24 RRC(2)B-2 0° LOOP B

NOTES:

	CAL BLOCK	EXAMINATION
1	UT-119	NOZZLE TO SHELL WELD
2	UT-101	NOZZLE TO SAFE-END WELD
3	UT-1	SAFE-END TO PIPE WELD
4	UT-101	SAFE END FORGING (IF EXAMINED)
5	UT-122	NOZZLE INNER RADIUS

REFERENCES:

- CBI NUCLEAR CO. 208 AE 923
  SHT 46, REV 4, N1 NOZZLE FORGING
  SHT 47, REV 3, N1 SAFE-END FORGING
  SHT. 48, REV 4, N1 NOZZLE ASSEMBLY
- ISI ISOMETRICS
  RRC-101-1 REV 0
  RRC-102-1 REV 0

0 1 2 3 4 5 6 IN

SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(2)-45	24	XXX	1.140	SA 358 GR 304 CL 1	SS	SEE NOTE
SAFE-END	——	——	——	SA 336 F8	SS	SEE NOTES
N1 NOZZLE	——	——	——	SA 508 CL II	CS	SEE NOTES
RPV	——	——	9 7/8	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	3.27.79	ISSUED FOR USE			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: T HOYLE | DRAWN: [illegible] | DATE: 5-10-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

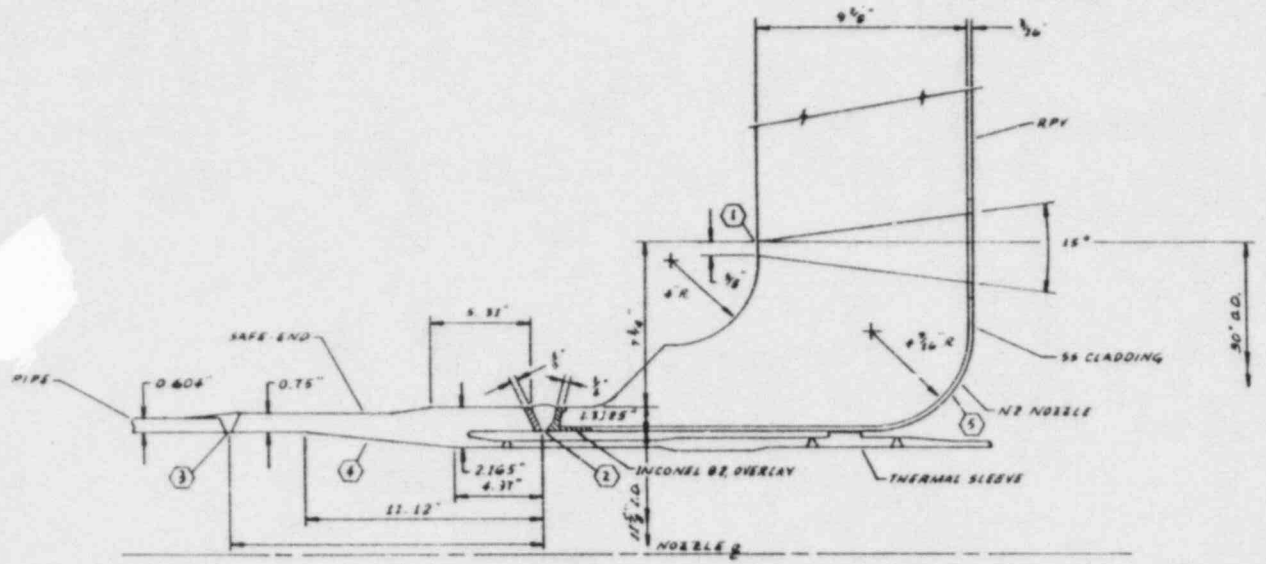
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RECIRC SUCTION
N1 NOZZLE AT 0° & 180°

DWG NO: RPV-105 REV 0

NOTES

CAL BLOCK		EXAMINATION
(1)	UT-117	NOZZLE TO SHELL WELD
(2)	UT-111	NOZZLE TO SAFE-END WELD
(3)	UT-19	SAFE-END TO PIPE WELD
(4)	UT-111	SAFE-END FORGING (IF EXAMINED)
(5)	UT-122	NOZZLE INNER RADIUS



WELDS

(1)	N2A	30°	LOOP A
	N2B	60°	LOOP A
	N2C	90°	LOOP A
	N2D	120°	LOOP A
	N2E	150°	LOOP A
	N2F	210°	LOOP B
	N2G	240°	LOOP B
	N2H	270°	LOOP B
	N2J	300°	LOOP B
	N2K	330°	LOOP B
(2)	12 RRC (1)-N2A-6		LOOP A
	12 RRC (1)-N2B-6		LOOP A
	12 RRC (1)-N2C-6		LOOP A
	12 RRC (1)-N2D-6		LOOP A
	12 RRC (1)-N2E-6		LOOP A
	12 RRC (1)-N2F-6		LOOP B
	12 RRC (1)-N2G-6		LOOP B
	12 RRC (1)-N2H-6		LOOP B
	12 RRC (1)-N2J-6		LOOP B
	12 RRC (1)-N2K-6		LOOP B
(3)	12 RRC (1)-N2A-4		LOOP A
	12 RRC (1)-N2B-4		LOOP A
	12 RRC (1)-N2C-4		LOOP A
	12 RRC (1)-N2D-4		LOOP A
	12 RRC (1)-N2E-4		LOOP A
	12 RRC (1)-N2F-4		LOOP B
	12 RRC (1)-N2G-4		LOOP B
	12 RRC (1)-N2H-4		LOOP B
	12 RRC (1)-N2J-4		LOOP B
	12 RRC (1)-N2K-4		LOOP B

REFERENCES:

- CBI NUCLEAR CO. 805 AE 029
  SHT. 49, REV 5, N2 NOZZLE FORGING
  SHT. 52, REV 10, N2 NOZZLE ASSEMBLY
- GE/NED
  - 112 D 2704 REV 1 SAFE-END RECIRC INLET NOZZLE
  - 112 D 2593 REV 0 THERMAL SLEEVE EXTENSION
- ISI ISOMETRICS
  - RRC-101-4 REV 0
  - RRC-101-5 REV 0
  - RRC-101-6 REV 0
  - RRC-101-7 REV 0
  - RRC-101-8 REV 0
  - RRC-102-4 REV 0
  - RRC-102-5 REV 0
  - RRC-102-6 REV 0
  - RRC-102-7 REV 0
  - RRC-102-8 REV 0

SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC (1)-45	12	XXX	0.604	SA 358 GR 304 CL 1	SS	SEE NOTE 1
SAFE-END	———	———	———	SA 316 L	SS	SEE NOTE 1
N2 NOZZLE	———	———	———	SA 508 CL II	CS	SEE NOTES
RPV	———	———	9 7/8	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	5.11.79	ISSUED FOR USE			

QUALITY CLASS: 1 | ASME CODE CLASS 1

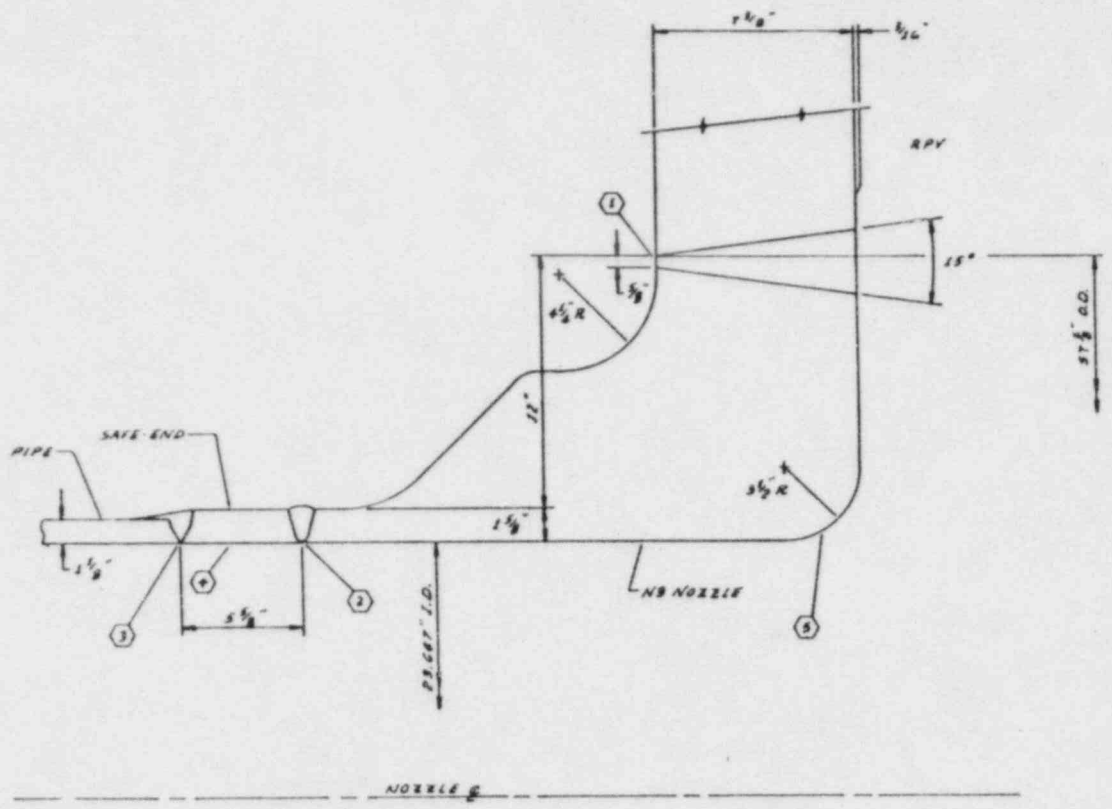
ENGR T. HOYLE | DRAWN | DATE 5-11-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RECIRC RETURN N2 NOZZLE AT 30° 60° 90° 120° 150° 210° 240° 270° 300° & 330°

DWG NO. RPV-106 | REV 0



WELDS

(1)	N3A 72°	LINE A
	N3B 108°	LINE B
	N3C 252°	LINE C
	N3D 288°	LINE D
(2)	26 MS (1) A-1	LINE A
	26 MS (1) B-1	LINE B
	26 MS (1) C-1	LINE C
	26 MS (1) D-1	LINE D
(3)	26 MS (1) A-2	LINE A
	26 MS (1) B-2	LINE B
	26 MS (1) C-2	LINE C
	26 MS (1) D-2	LINE D

NOTES

CAL BLOCK	EXAMINATION
(1) UT-121	NOZZLE TO SHELL WELD
(2) UT-104	NOZZLE TO SAFE-END WELD
(3) UT-4	SAFE-END TO PIPE (IF EXAMINED)
(4) UT-104	SAFE-END FORGING
(5) UT-123	NOZZLE INNER RADIUS

REFERENCES:

- CBI NUCLEAR CO. 206 AE 008
  - SHT 53, REV 3, N3 NOZZLE FORGING
  - SHT 54, REV 4, N3 SAFE-END FORGING
  - SHT 55, REV 3, N3 NOZZLE ASSEMBLY
- 191 ISOMETRICS
  - MS-101-1 REV 1
  - MS-102-1 REV 1
  - MS-103-1 REV 1
  - MS-104-1 REV 1

SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	SEE NOTES
SAFE-END	—	—	—	SA 508 CL I	CS	SEE NOTES
N3 NOZZLE	—	—	—	SA 508 CL II	CS	SEE NOTES
RPV	—	—	7 3/8	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/31/79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS 1

ENGR T HOYLE | DRAWN [illegible] | DATE 5-14-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

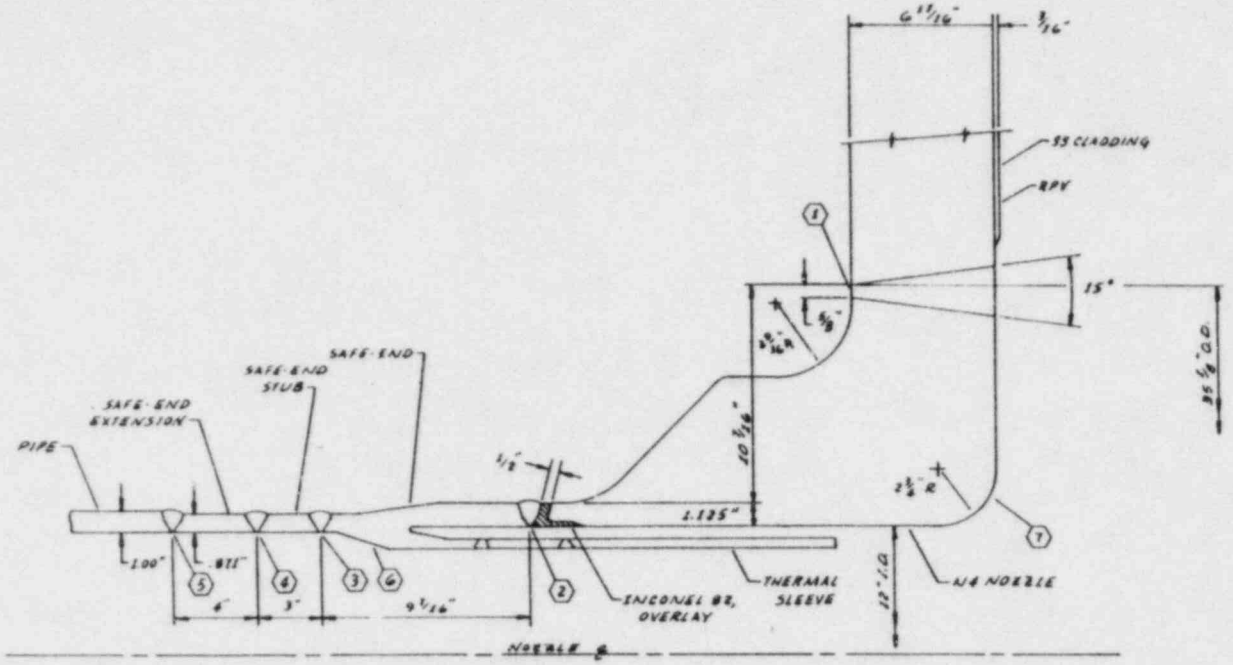
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM
N3 NOZZLE AT 72°, 108°, 252° & 288°

DWG NO: RPV-107 | REV 0

NOTES

CAL BLOCKS		EXAMINATION
(1)	UT-120	NOZZLE TO SHELL WELD
(2)	UT-102	NOZZLE TO SAFE-END WELD
(3)	UT-105	SAFE-END TO SAFE-END STUB WELD
(4)	UT-106	SAFE-END STUB TO SAFE-END EXTENSION WELD
(5)	UT-15	SAFE-END EXTENSION TO PIPE WELD
(6)	UT-106	SAFE END FORGING (IF EXAMINED)
(7)	UT-122	NOZZLE INNER RADIUS



WELDS

(1)	N4A	150°	LINE AA
	N4B	90°	LINE AB
	N4C	30°	LINE AC
	N4D	210°	LINE BD
	N4E	270°	LINE BE
	N4F	330°	LINE BF
(2)	12 RFW (1)AA-11		LINE AA
	12 RFW (1)AB-11		LINE AB
	12 RFW (1)AC-12		LINE AC
	12 RFW (1)BD-11		LINE BD
	12 RFW (1)BE-11		LINE BE
	12 RFW (1)BF-14		LINE BF
(3)	12 RFW (1)AA-10		LINE AA
	12 RFW (1)AB-10		LINE AB
	12 RFW (1)AC-12		LINE AC
	12 RFW (1)BD-10		LINE BD
	12 RFW (1)BE-10		LINE BE
	12 RFW (1)BF-13		LINE BF
(4)	12 RFW (1)AA-9		LINE AA
	12 RFW (1)AB-9		LINE AB
	12 RFW (1)AC-11		LINE AC
	12 RFW (1)BD-9		LINE BD
	12 RFW (1)BE-9		LINE BE
	12 RFW (1)BF-12		LINE BF
(5)	12 RFW (1)AA-8		LINE AA
	12 RFW (1)AB-8		LINE AB
	12 RFW (1)AC-10		LINE AC
	12 RFW (1)BD-8		LINE BD
	12 RFW (1)BE-8		LINE BE
	12 RFW (1)BF-11		LINE BF

REFERENCES:

- CBI NUCLEAR CO. 205 AE 079
  - SHT. 56, REV — N4 NOZZLE FORGING
  - SHT. 57, REV 4 — N4 SAFE-END & SAFE-END FORGING
  - SHT. 58, REV 2 — N4 THERMAL SLEEVE FORGING
  - SHT. 59, REV 9 — N4 NOZZLE ASSEMBLY
- ISI ISOMETRICS
  - RFW-101-3 REV 1
  - RFW-101-4 REV 1
  - RFW-101-5 REV 1
  - RFW-102-3 REV 1
  - RFW-102-4 REV 1
  - RFW-102-5 REV 1

0 1 2 3 4 5 6 IN
SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW (1)-4	12	120	1.000	SA 106 GR B	CS	SEE NOTES
SAFE-END EXTENSION	12	———	0.871	SA 508 CL 1	CS	SEE NOTES
SAFE-END STUB	12	———	0.871	SB 166	INCONEL	SEE NOTES
SAFE-END	12	———	1.125	SB 166	INCONEL	SEE NOTES
N4 NOZZLE	12	———	———	SA 508 CL II	CS	SEE NOTES
RPV	———	———	6 15/16	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-31-79	ISSUED FOR USE			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

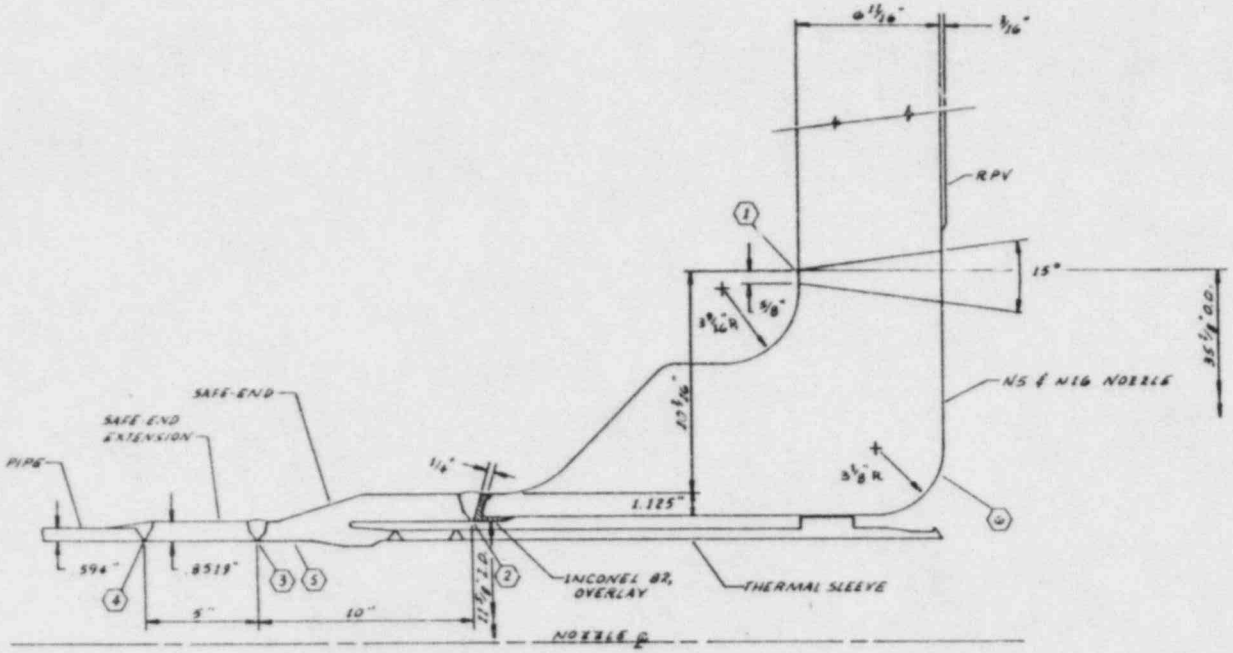
ENGR T HOYLE | DRAWN: [illegible] | DATE 5-16-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: FEEDWATER N4 NOZZLE AT 30°, 90°, 150°, 210°, 270° & 330°

DWG NO: RPV-108 | REV 0



SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WELDS

1. NS 120° LPCS, N1G 240° HPCS
2. 10 LPCS (1)-4, 10 HPCS (1)-4
3. 10 LPCS (1)-4, 10 HPCS (1)-4
4. 10 LPCS (1)-4, 10 HPCS (1)-4

NOTES

CAL BLOCKS		EXAMINATION
1	UT-120	NOZZLE TO SHELL WELD
2	UT-102	NOZZLE TO SAFE-END WELD
3	UT-106	SAFE-END TO SAFE-END EXTENSION WELD
4	UT-82	SAFE-END EXTENSION TO PIPE WELD
5	UT-106	SAFE-END FORGING (IF EXAMINED)
6	UT-122	NOZZLE INNER RADIUS

REFERENCES:

- GBI NUCLEAR CO. 205 AE 0P8
  - SHT. 60, REV 3, NS NOZZLE FORGING
  - SHT. 61, REV 2, NS SAFE-END & SAFE-END EXTENSION
  - SHT. 63, REV 5, NS NOZZLE ASSEMBLY
  - SHT. 88, REV 4, N1G NOZZLE FORGING
  - SHT. 89, REV 2, N1G SAFE-END & SAFE-END EXTENSION
  - SHT. 91, REV 5, N1G NOZZLE ASSEMBLY
- ISI ISOMETRICS
  - LPCS-101-2 REV 1
  - HPCS-101-2 REV 1

PIPING SYSTEM	NOM DIA (IN.)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" LPCS (1)-4 & 10" HPCS (1)-4	10	80	0.594	SA 106 GR B	CS	SEE NOTES
SAFE-END EXTENSION				SA 508 CL I	CS	SEE NOTES
SAFE-END				SB 166	INCONEL	SEE NOTES
NS NOZZLE				SA 508 CL II	CS	SEE NOTES
RPV			6 11/16	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7.31.79	ISSUED FOR USE			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

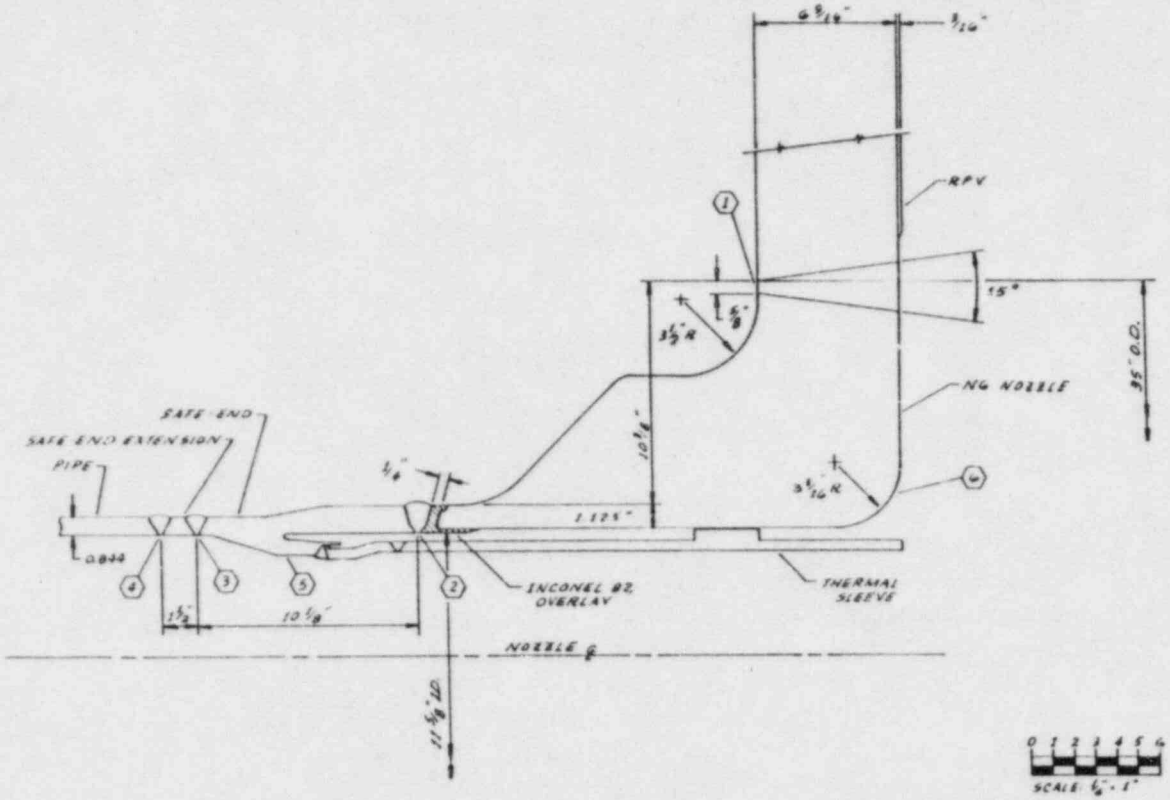
ENGR: T. HOVLE | DRAWN: A. A. | DATE: 5.15.79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: LPCS/HPCS DISCHARGE
NS NOZZLE AT 120° N1G NOZZLE AT 240°

DWG NO. RPV-109 | REV 0



WELDS

(1)	NGA 45°	LOOP A
	NGB 135°	LOOP B
	NGC 315°	LOOP C
(2)	12 LPCI (1) A-6	LOOP A
	12 LPCI (1) B-6	LOOP B
	12 LPCI (1) C-6	LOOP C
(3)	12 LPCI (1) A-5	LOOP A
	12 LPCI (1) B-5	LOOP B
	12 LPCI (1) C-5	LOOP C
(4)	12 LPCI (1) A-4	LOOP A
	12 LPCI (1) B-4	LOOP B
	12 LPCI (1) C-4	LOOP C

NOTES

CAL BLOCK		EXAMINATION
(1)	UT-120	NOZZLE TO SHELL WELD
(2)	UT-102	NOZZLE TO SAFE-END WELD
(3)	UT-106	SAFE-END TO SAFE-END EXTENSION WELD
(4)	UT-16	SAFE-END EXTENSION TO PIPE WELD
(5)	UT-102	SAFE-END FORGING (IF EXAMINED)
(6)	UT-122	NOZZLE INNER RADIUS

REFERENCES

- CBI NUCLEAR CO. 205AE OP8
  - SHT. 64, REV 3, NG NOZZLE FORGING
  - SHT. 65, REV 3, NG SAFE-END TO SAFE-END EXTENSION FORGING
  - SHT. 66
  - SHT. 66, REV 2, NG THERMAL SLEEVE FORGING
  - SHT. 67, REV 6, NG NOZZLE ASSEMBLY
- ISI ISOMETRICS
  - RHR-101 REV 1
  - RHR-102 REV 2
  - RHR-103 REV 2

SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR (1) - 4	12	100	0.844	SA 106 GR B	CS	SEE NOTES
SAFE-END EXTENSION				SA 508 CL 1	CS	SEE NOTES
SAFE-END				SB 166	INCONEL	SEE NOTES
NG NOZZLE				SA 508 CL II	CS	SEE NOTES
RPV			6 9/16	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/1/79	ISSUED FOR USE			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: T. HOVLE | DRAWN: [illegible] | DATE: 5-17-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

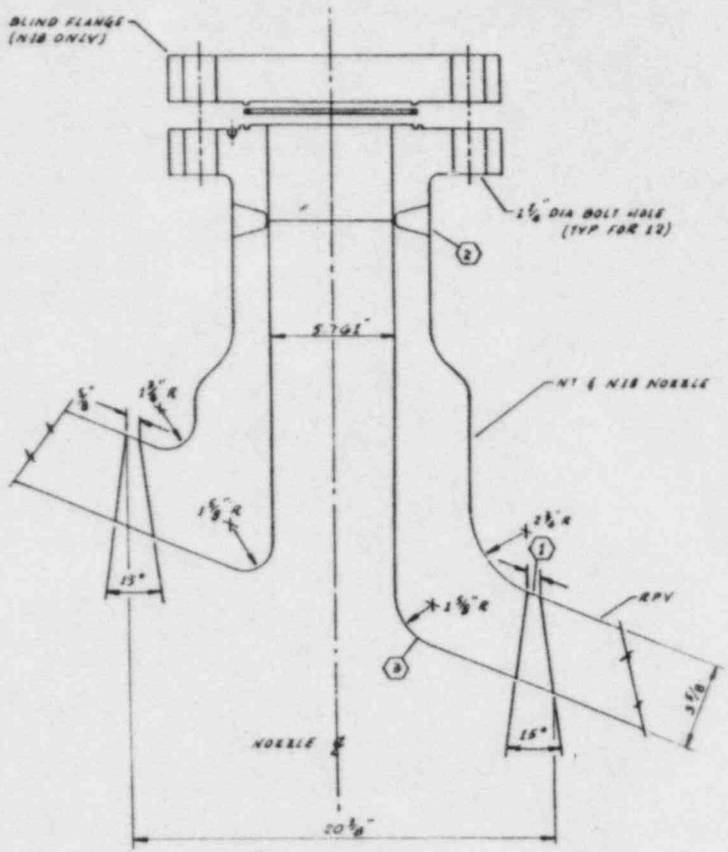
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR/LPCI

NG NOZZLE AT 45°, 135° & 315°

DWG NO: RPV-110 | REV 0



SCALE: 1/4" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WELDS

1. N1 0° RCIC
   N18 180° SPARE
2. 6" RCIC (1): 4.5
   6" SPARE - 1

NOTES

CAL BLOCKS	EXAMINATION
1 UT-115	NOZZLE TO VESSEL HEAD WELD
2 UT-101	NOZZLE TO FLANGE WELD
3 UT-122	NOZZLE INNER RADIUS

REFERENCES

- CBI NUCLEAR CO. 208 AE 079
  - SHT. 68, REV 2, N1 NOZZLE & WELD NECK FLANGE
  - SHT. 69, REV 4, N1 NOZZLE ASSEMBLY
  - SHT. 92, REV 6, N18 NOZZLE & WELD NECK FLANGE
  - SHT. 93, REV 6, N18 NOZZLE ASSEMBLY
- ISI ISOMETRICS
  - RCIC-102-3 REV. 1
  - RPV-102 REV. 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (1) &	6	80	0.432	SA 106 GR B	CS	SEE NOTES
WELD NECK FLANGE	6	900#	———	SA 508 CL I	CS	SEE NOTES
N1 & N18 NOZZLE	———	———	———	SA 508 CL II	CS	SEE NOTES
RPV	———	———	3 5/8"	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/1/79	ISSUED FOR USE			

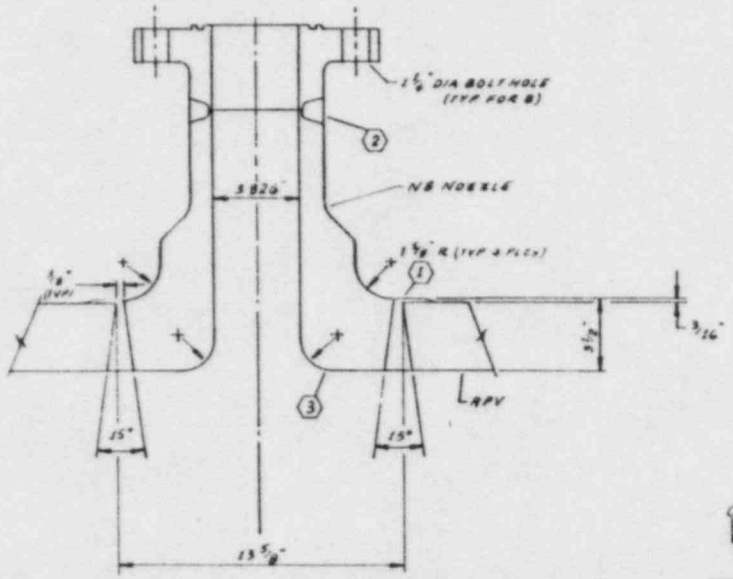
QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR T HOYLE	DRAWN	DATE: 5-17-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RCIC / SPARE
N1 NOZZLE 0° N18 NOZZLE 180°

DWG NO: RPV-111 REV 0



0 1 2 3 4 5 6 IN

SCALE: 1/2" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WELDS

1. NB HEAD VENT
2. 4" MS(12)-1

NOTES

CAL BLOCKS		EXAMINATION
1	UT-115	NOZZLE TO VESSEL WELD
2	UT-108	NOZZLE TO FLANGE WELD
3	UT-122	NOZZLE INNER RADIUS

REFERENCES

- CBI NUCLEAR CO. 205 AE 023
  - SHT 10, REV 4, NB NOZZLE FORGING
  - SHT 11, REV 9, NB NOZZLE ASSEMBLY
- ESI ISOMETRICS
  - MS-106 1 REV 0
  - RPV-102 REV 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" 900# WN FLG	———	———	———	SA 508 CL 1	CS	SEE NOTES
NB NOZZLE	———	———	———	SA 508 CL II	CS	SEE NOTES
RPV	———	———	3 1/2"	SA 533 GR B	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/2/79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS 1

ENGR T HOYLE | DRAWN [illegible] | DATE 5-21-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

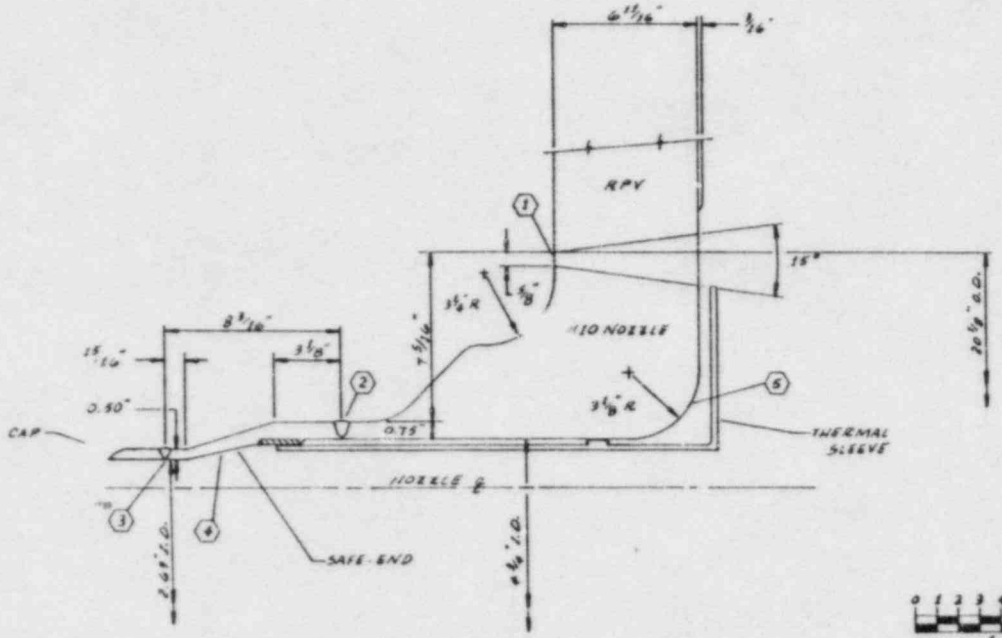
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: NB NOZZLE HEAD VENT

DWG NO: RPV-112 | REV 0



SCALE: 1/8" = 1"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WELDS

1. N10 180° (CAPPED)
2. S CRD(N2)-1
3. B CRD(N2)-1

NOTES

CAL BLOCKS	EXAMINATION
1 UT-120	NOZZLE TO VESSEL WELD
2 UT-110	NOZZLE TO SAFE-END WELD
3 NA	SAFE-END TO CAP WELD (SURFACE EXAM)
4 UT-110	SAFE-END FORGING (IF EXAMINED)
5 UT-122	NOZZLE INNER RADIUS

REFERENCES:

- CBI NUCLEAR CO. 203 AE 028
  SHT 5, REV 4, N10 NOZZLE FORGING
  SHT 6, REV 2, N10 SAFE-END FORGING
  SHT 7, REV 1, N10 THERMAL SLEEVE FORGING
  SHT 8, REV 6, N10 NOZZLE ASSEMBLY
- GE DWG NO 112 D1044, REV 0, N10 CAP
- ISI DRAWING
  RPV-101 REV 1

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
RPV			6 15/16"	SA 533 GR B	CS	SEE NOTES
N10 NOZZLE				SA 508 CL II	CS	SEE NOTES
SAFE END				SA 508 CL I	CS	SEE NOTES
CAP	3	SPECIAL	SPECIAL	SA 508 CL I	CS	SEE NOTES

NO	DATE	REVISION	BY	CHKD	APPVD
0	5/31/79	ISSUED FOR USE			

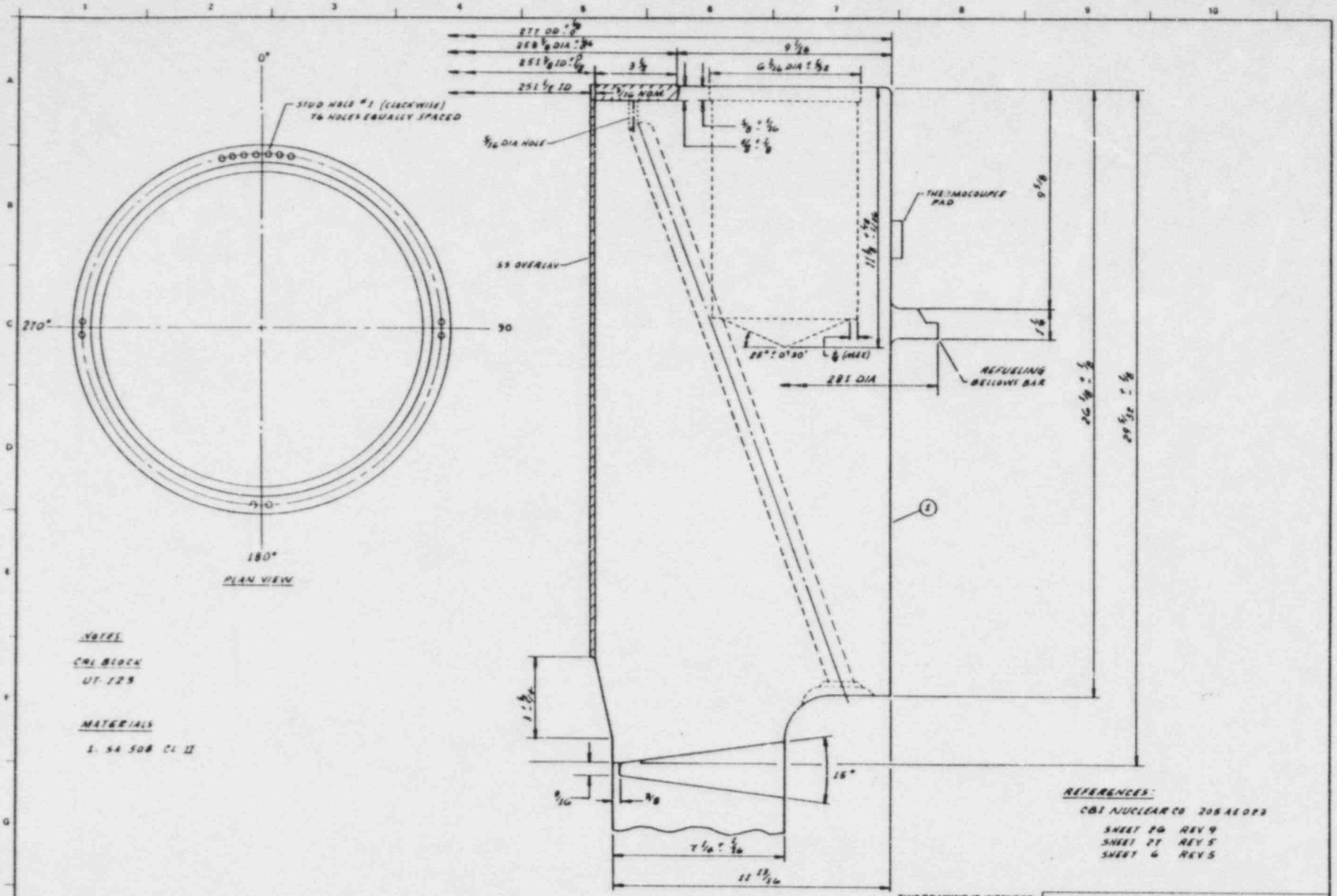
QUALITY CLASS 1 | ASME CODE CLASS 1
ENGR T NOYLE | DRAWN | DATE 5-23-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: CONTROL ROD DRIVE N10 NOZZLE 180°

DWG NO RPV-113 | REV 0



NOTES

CAL BLOCK
UT-129

MATERIALS

1. SA 508 CL II

REFERENCES:

CBI NUCLEAR CO 208 AE 0P3
SHEET 19 REV 9
SHEET 21 REV 5
SHEET 6 REV 5

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

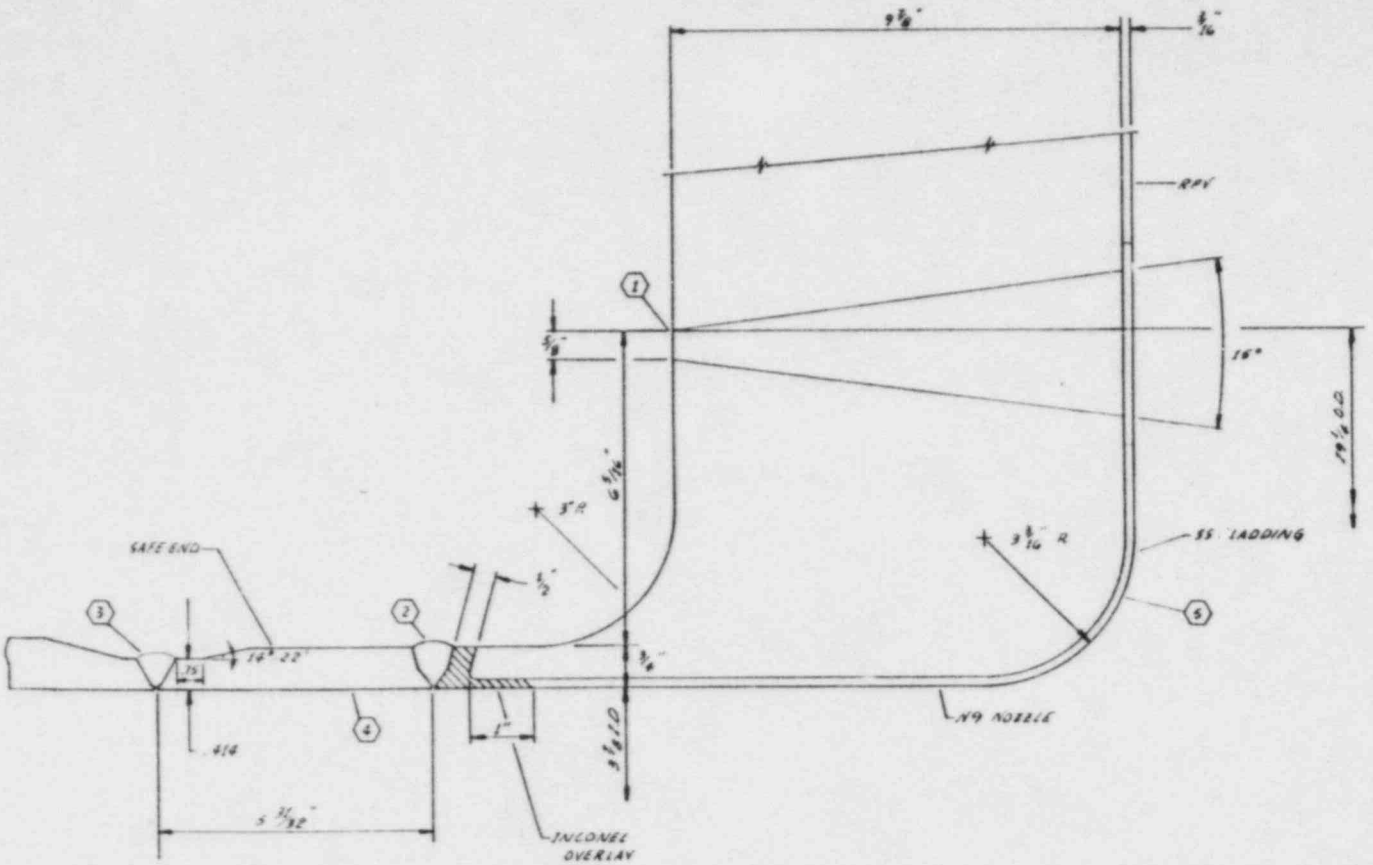
ENGINEER T. HOYLE
DRAWN K. McANDREW
DATE 9-5-79

WNP-2

RPV FLANGE DETAIL

DWG NO RPV-114 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	12/881	IDENTIFIED CAL BLOCK NUMBER IN F.1			
0	9.13.79	ISSUED FOR USE			



WELDS

1. N9A 105°
   N9B 285°
2. 4JP(N2)A-1
   4JP(N2)B-1
3. 4JP(N2)A-2
   4JP(N2)B-2

NOTES:

CAL BLOCK		EXAMINATION
1	UT-119	NOZZLE TO SHELL WELD
2	UT-109	NOZZLE TO SAFE-END WELD
3	UT-29	SAFE-END TO FITTING WELD
4	UT-109	SAFE-END FORGING (IF EXAMINED)
5	UT-	NOZZLE INNER RADIUS

REFERENCES:

GE NUCLEAR CO. 205 AE 023
SHT 72, REV 2 N9 NOZZLE FORGING
SHT 73, REV 2 N9 SAFE-END FORGING
SHT 74, REV 2 N9 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR T HOVLE	DRAWN A McA	DATE 10-8-79

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
SAFE-END	4	—	3/4	SA 336 F8	SS	SEE NOTES
N9 NOZZLE	—	—	—	SA 508 CL II	CS	SEE NOTES
RPV	—	—	9 7/16	SA 533 GR B	CS	SEE NOTES

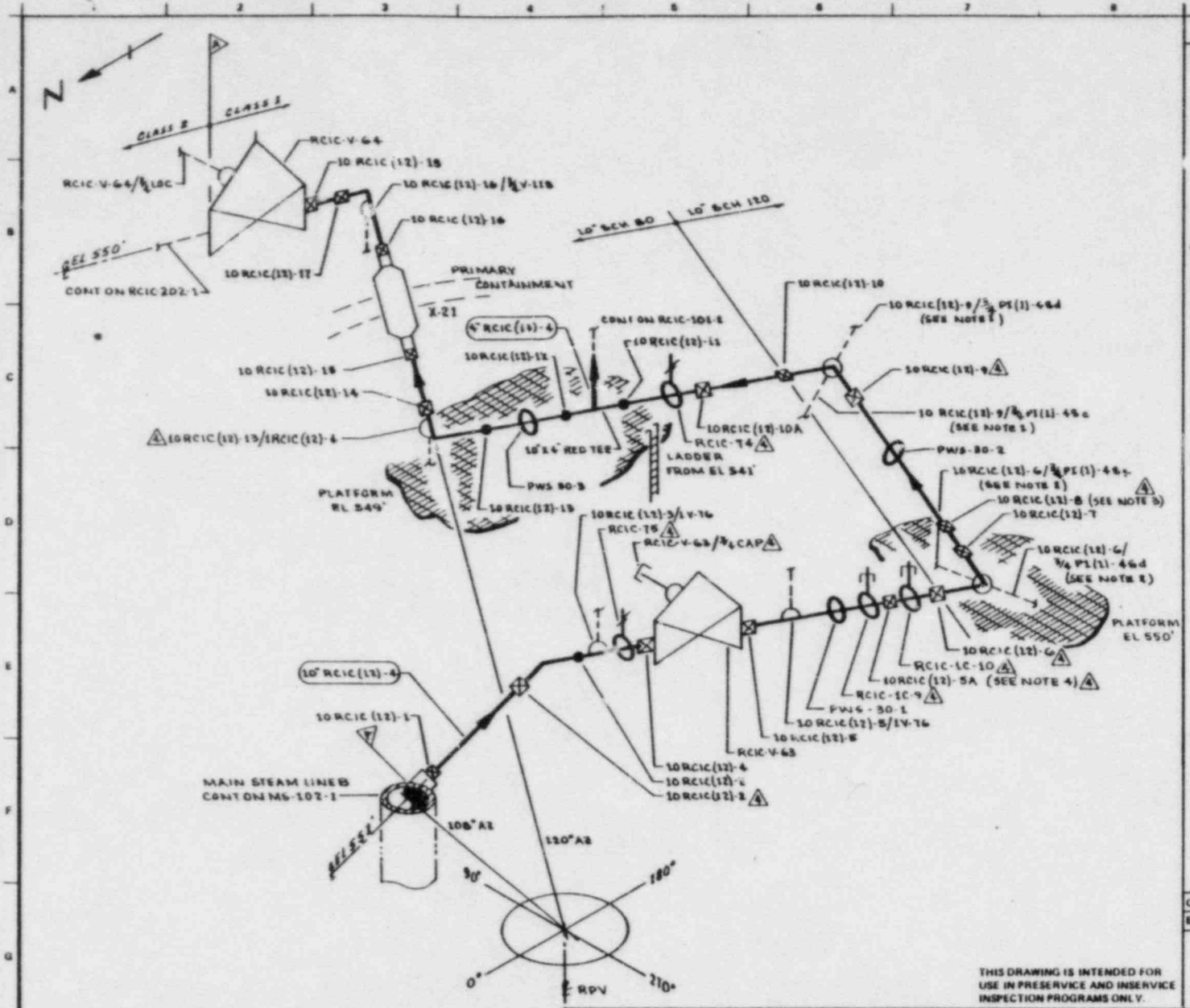
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-5-80	ISSUED FOR USE	EMA	JSH	LGD

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
JET PUMP INSTRUMENTATION
NOZZLE N9 AT 105° & 285°

DWG NO: RPV-115 REV 0



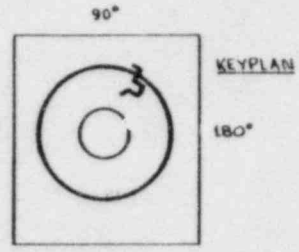
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-7 1 c & 4) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38 c & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELD 10RCIC(12)-8 REQUIRES REMOVAL OF PWS-30-2.
4. ACCESS TO WELD 10RCIC(12)-5A REQUIRES REMOVAL OF RCIC-1C-9.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-663-1.2	REV 12
RCIC-663-3.5	REV 10



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
4	9-26-83	REVISED AS NOTED ADDED KEYPLAN			
3	11-1-81	AUGMENTED I&E ADDED			
2	11-5-80	REVISED AS NOTED			
1	5-11-79	CHANGED 10 RCIC (12)-14 FROM SHOP TO FIELD WELD			
0	11-27-78	ISSUED FOR USE			
A	3-15-78	ISSUED FOR INFORMATION ONLY			

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (12)-4	10	80	0.594	SA 106 GR B	CS	UT-22
10" RCIC (12)-4	10	120	0.844	SA 106 GR B	CS	UT-23

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: W. McA | DATE: 11-4-77

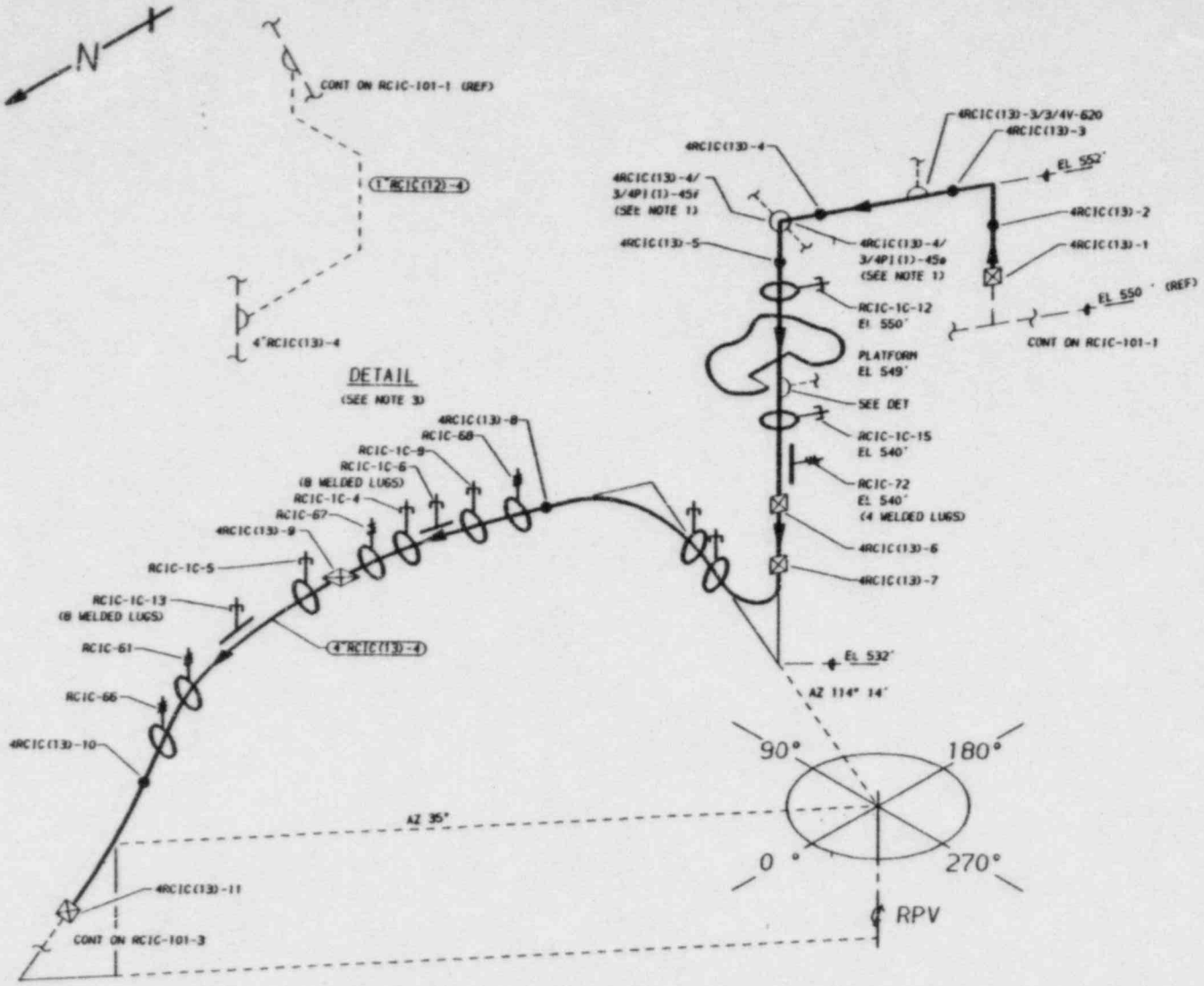
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RCIC STEAM SUPPLY

DWG NO: RCIC-101-1 | REV 4



ZONES R-67 & R-57

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

NOTES:

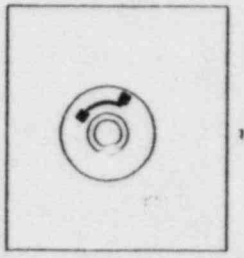
1. EXTEND LEAKAGE EXAM THROUGH COTAINMENT (X-71e, X-71f) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. ALL CIRCUMFERENTIAL BUTT WELDS GREATER THAN ONE INCH RECEIVE AUGMENTED ISI.
3. EXTEND V-2 EXAM THROUGH LINE 1"RCIC(12)-4.

REFERENCES:

ISI - 219

BOVEE CRAIL ISIMETRICS

RCIC-663-1.2	REV 12
RCIC-662-1	REV 12
RCIC-662-2.4	REV 11
RCIC-5429-1	REV 3



KEYPLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2		
ENGR: D PORTER	DRAWN: K-McA	DATE: 11-7-77	

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

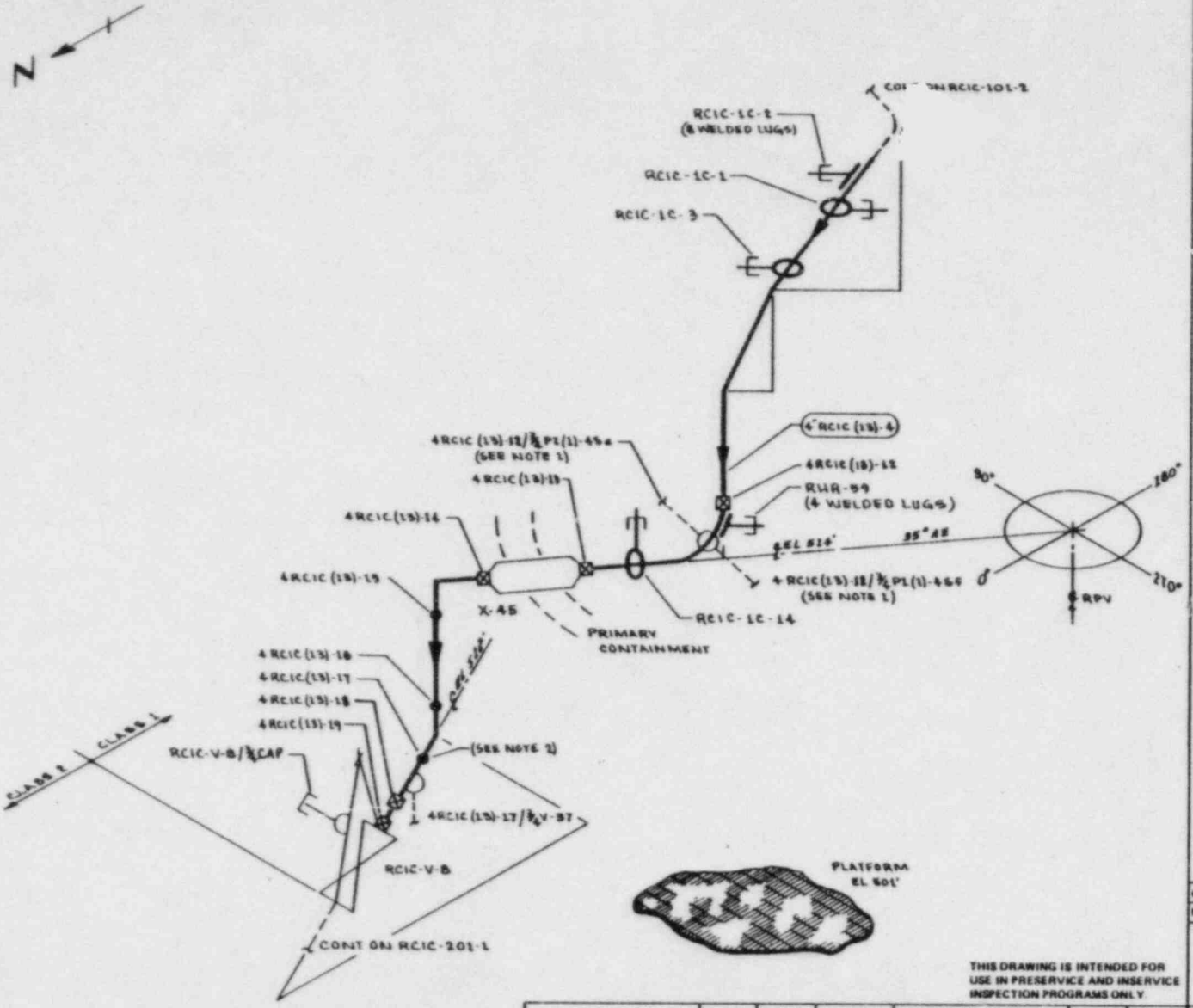
WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY

DWG NO. RCIC-101-2 REV 3

NO	DATE	REVISION	BY	CHKD	APVD
3	1-18-84	GENERAL UPDATE REDRAWN	K-McA	DPR	TFH
2	12-2-81	AUGMENTED ISI ADDED	K-McA	DPR	TFH
1	11-5-80	REVISED AS NOTED	K-McA	TFH	DMP
0	11-27-78	ISSUED FOR USE	K-McA	TFH	LFB
A	3-15-78	ISSUED FOR INFORMATION ONLY	K-McA	NCH	DMP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RCIC(13)-4	4	80	.337	SA 106 GR B	CS	UT-30



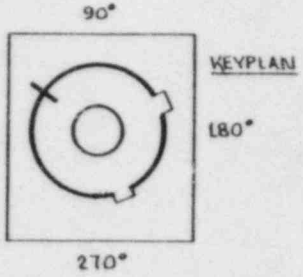
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-8B & F) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. ACCESS TO WELD 4 RCIC(13)-17 IS RESTRICTED ON ONE SIDE BY 4 RCIC(13)-17/3/4 V-37.
3. ALL CIRCUMFERENTIAL BUTT WELDS GREATER THAN 1 INCH RECEIVE AUGMENTED ISI.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-662-2.4	REV 11
RCIC-662-3	REV 8



QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D PORTER	DRAWN: K.M.A.	DATE: 11-7-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" RCIC (13)-4	4	80	0.337	SA 106 GR B	CS	UT-80
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APPVD
2	12-13-83	ADDED HANGERS, 3/4" CAP & KEYPLAN, LUGS	K.M.A.	[illegible]	[illegible]
1	12-2-81	AUGMENTED ISI ADDED	K.M.A.	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	3-15-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

WNP 2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY

DWG NO: RCIC-101-8 REV 2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WPP-02
INTERVAL: 01
DRAWING NO. RCIC-131

SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

DATE 04/25/85

ITEM. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
10RCIC(12)-1									
	SWL TO PIPE	B-J	B9.11	VOL	UT-22			K7	AUGMT
10RCIC(12)-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
10RCIC(12)-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK	
RCIC-75									
	SPRING	IWF	F-X	VT3H				F	
10RCIC(12)-4									
	PIPE TO VLV	B-J	B9.11	VOL	UT-22			K7	AUGMT
RCIC-V-63-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RCIC-V-63-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
10RCIC(12)-5									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-22			K7	AUGMT
			B9.11	SUR				FK	
PWS-30-1									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
RCIC-1C-9									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 7786
10RCIC(12)-5A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
RCIC-1C-10									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4490
10RCIC(12)-6									
	PIPE TO EL	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-2
INTERVAL: 01
DRAWING NO. RCIC-101

SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
1CRCIC(12)-7									
	EL TO PIPE	B-J	B9.11	VOL	UT-23			FK6	AUGMT
			B9.11	SUR				FK6	
1CRCIC(12)-8									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-23			K7	AUGMT
PWS-3B-2									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
1CRCIC(12)-9									
	PIPE TO EL	B-J	B9.11	VOL	UT-23			FK6	AUGMT
			B9.11	SUR				FK6	
1CRCIC(12)-10									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
1CRCIC(12)-10A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
RCIC-74									
	SPRING	IWF	F-X	VT3H				F	
1CRCIC(12)-11									
	PIPE TO TEE	B-J	B9.11	VOL	UT-22			K7	AUGMT
1CRCIC(12)-12									
	TEE TO PIPE	B-J	B9.11	VOL	UT-22			K7	AUGMT
PWS-3B-3									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
1CRCIC(12)-13									
	PIPE TO EL	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
1CRCIC(12)-14									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
10RCIC(12)-15									
	PIPE TO PEN	B-J	B9.11	VOL	UT-22			K7	AUGMT
10RCIC(12)-16									
	PEN TO EL	B-J	B9.11	VOL	UT-22			FK6	FITTING TO FITTING, AUGMT.
			B9.11	SUR				FK6	
10RCIC(12)-17									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			FK6	AUGMT
			B9.11	SUR				FK6	
10RCIC(12)-18									
	EL TO VALVE	B-J	B9.11	VOL	UT-22			K7	FITTING TO FITTING, AUGMT.
RCIC-V-64-BDY									
	VALVE BODY	B-M-2	B12.40	VT-2				C	
RCIC-V-64-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
4RCIC(13)-1									
	TEE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RVS-30-6									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
RVS-30-5									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
4RCIC(13)-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-5									
	EL TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

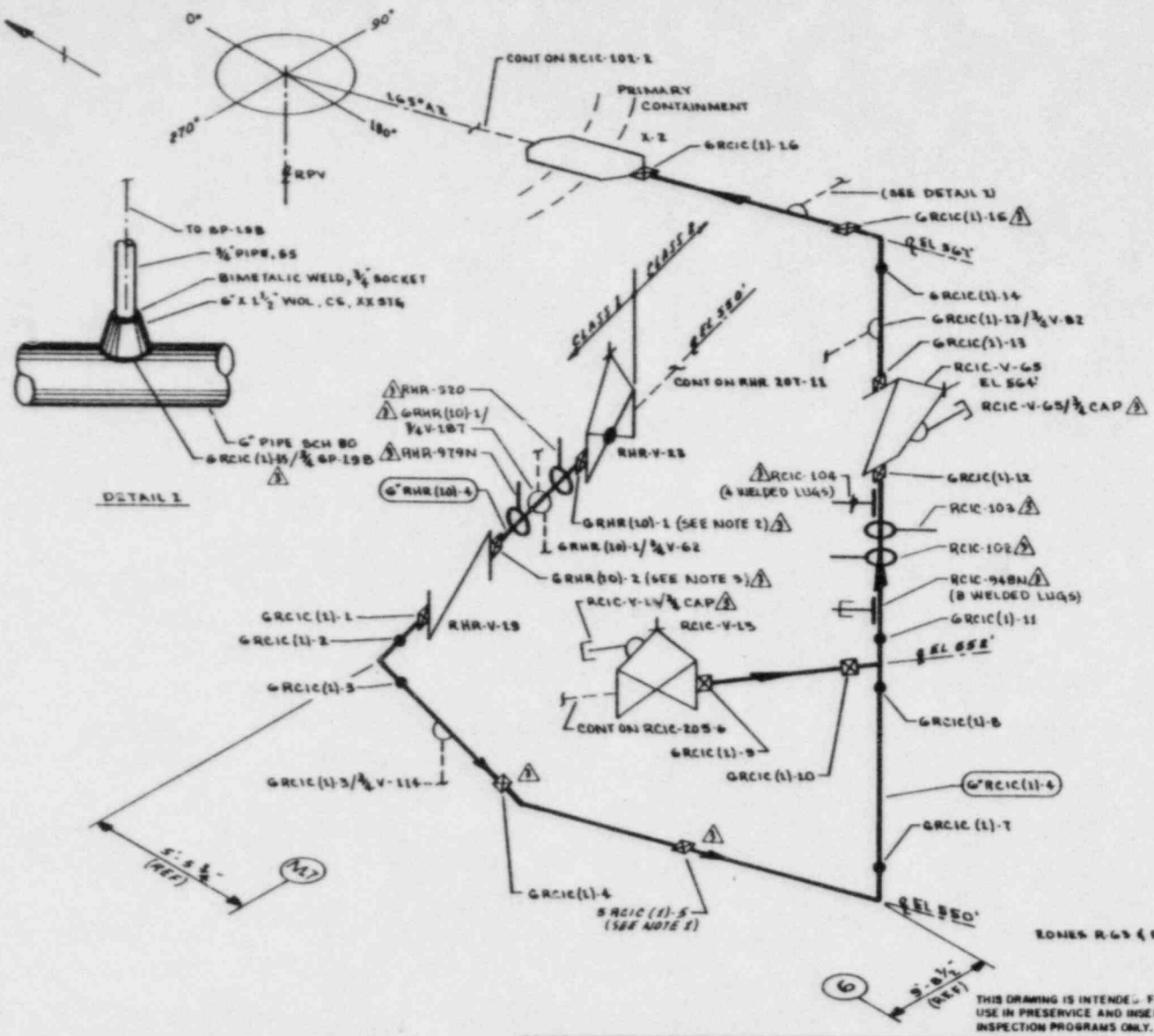
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RCIC-1C-12	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4405
PWS-30-4	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
RCIC-1C-15	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 3953
RCIC-72	SPRING	IWF	F-X	VT3H				F	
4RCIC(13)-6	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-7	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RCIC-1C-14	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 231
RCIC-1C-7	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 3917
4RCIC(13)-8	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RCIC-68	SPRING	IWF	F-X	VT3H				F	
RCIC-1C-8	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 471
RCIC-1C-8(V)	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-30			F	3/4"Wx1"Hx3"L.
RCIC-1C-4	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 4491/4424
RCIC-1C-9	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 618
RCIC-67	SPRING	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
IST PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
4RCIC(13)-9	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RCIC-1C-5	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 13029
RCIC-1C-13(W)	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-30			F	3/4"Wx1-1/16"Hx4"L.
RCIC-1C-13	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 4461/4450
RCIC-61	SPRING	IWF	F-X	VT3H				F	
RCIC-66	SPRING	IWF	F-X	VT3H				F	
4RCIC(13)-10	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-11	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RCIC-1C-2(W)	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-30			F	3/4"W x1"H x2"L.
RCIC-1C-2	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 482/631
RCIC-1C-1	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 359
RCIC-1C-3	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 346
4RCIC(13)-12	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
RCIC-59	SPRING (2)	IWF	F-X	VT3H				F	
RCIC-1C-14	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 22371

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
4RCIC(13)-13									
	PIPE TO PEN	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-14									
	PEN TO EL	B-J	B9.11	VOL	UT-30			FK6	FITTING TO FITTING, AUGMT.
			B9.11	SUR				FK6	
4RCIC(13)-15									
	EL TO PIPE	B-J	B9.11	VOL	UT-30			FK6	AUGMT
			B9.11	SUR				FK6	
4RCIC(13)-16									
	PIPE TO EL	B-J	B9.11	VOL	UT-30			FK6	AUGMT
			B9.11	SUR				FK6	
4RCIC(13)-17									
	EL TO PIPE	B-J	B9.11	VOL	UT-30			FK6	AUGMT
			B9.11	SUR				FK6	
4RCIC(13)-18									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-30			K7	AUGMT
4RCIC(13)-19									
	PIPE TO VLV	B-J	B9.11	VOL	UT-30			FK6	AUGMT
			B9.11	SUR				FK6	
RCIC-V-B-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
RCIC-PB-151(L)									
	LK PRES BNDRY	B-P	B15.10	VT-2				A	
RCIC-PB-151(H)									
	HYDRO PRES BNDR	B-P	B15.11	VT-2				P	



NOTES:

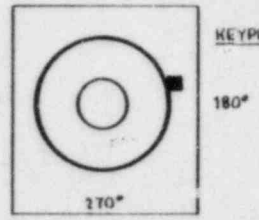
1. WELD GRCIC(1)-5 IS FITTING TO FITTING.
2. ACCESS TO WELD GRHR(10)-1 REQUIRES REMOVAL OF RHR-520.
3. ACCESS TO WELD GRHR(10)-2 REQUIRES REMOVAL OF RHR-979N.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-768-1	REV 9
RCIC-659-22.23	REV 7
RCIC-659-2A	REV 12
RCIC-659-25	REV 10

KEYPLAN



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RHR (10)-4	6	80	0.432	SA 106 GR B	CS	UT-28
6"RCIC (1)-4	6	80	0.432	SA 106 GR B	CS	UT-28
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APPVD
3	10-13-83	REVISED AS NOTED ADDED KEYPLAN, LUGS			
2	11-6-80	DELETED GRCIC(1)-6 ADDED NOTE 1			
1	1-10-79	CAL BLOCK REFERENCE CHANGED			
0	11-17-78	ISSUED FOR USE			
A	8-19-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D Poetker | DRAWN: K M c A | DATE: 4-26-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

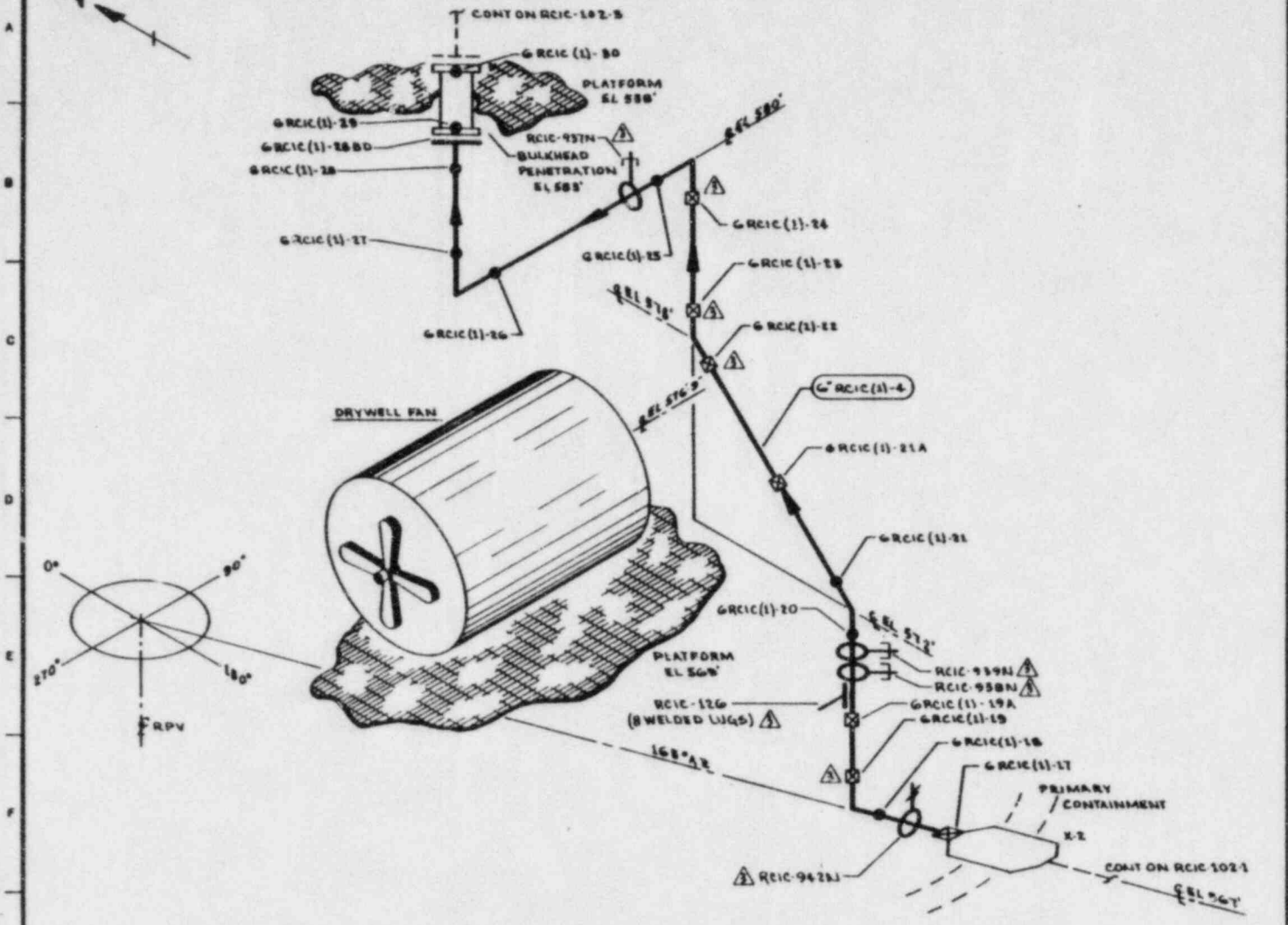
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RESIDUAL HEAT REMOVAL/ REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-1 | REV 3

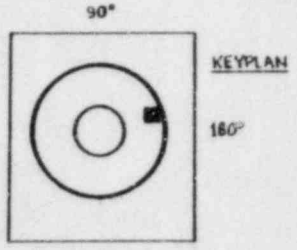


NOTES:

1. ACCESS TO WELDS 6 RCIC(1)-22 THRU 6 RCIC(1)-27 REQUIRES TEMPORARY SCAFFOLDING.

REFERENCES:

BOVEE & CRAIL ISOMETRIC RCIC-650-26 REV 7



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (1)-4	6	80	0.432	SA 106 GR B	C.S	UT-28
LUGS	N.A	N.A	N.A	SA 516 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-26-83	REVISED AS NOTED ADDED KEYPLAN	KMA	DPP	
2	11-5-80	ADDED FW 19A & 21A, HNGR RCIC-22	KMA	DPP	
1	1-10-79	CAL BLOCK REFERENCE CHANGED	KMA		
0	11-7-78	ISSUED FOR USE	KMA		
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMA		

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D Porter | DRAWN: K. M. A. | DATE: 4-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

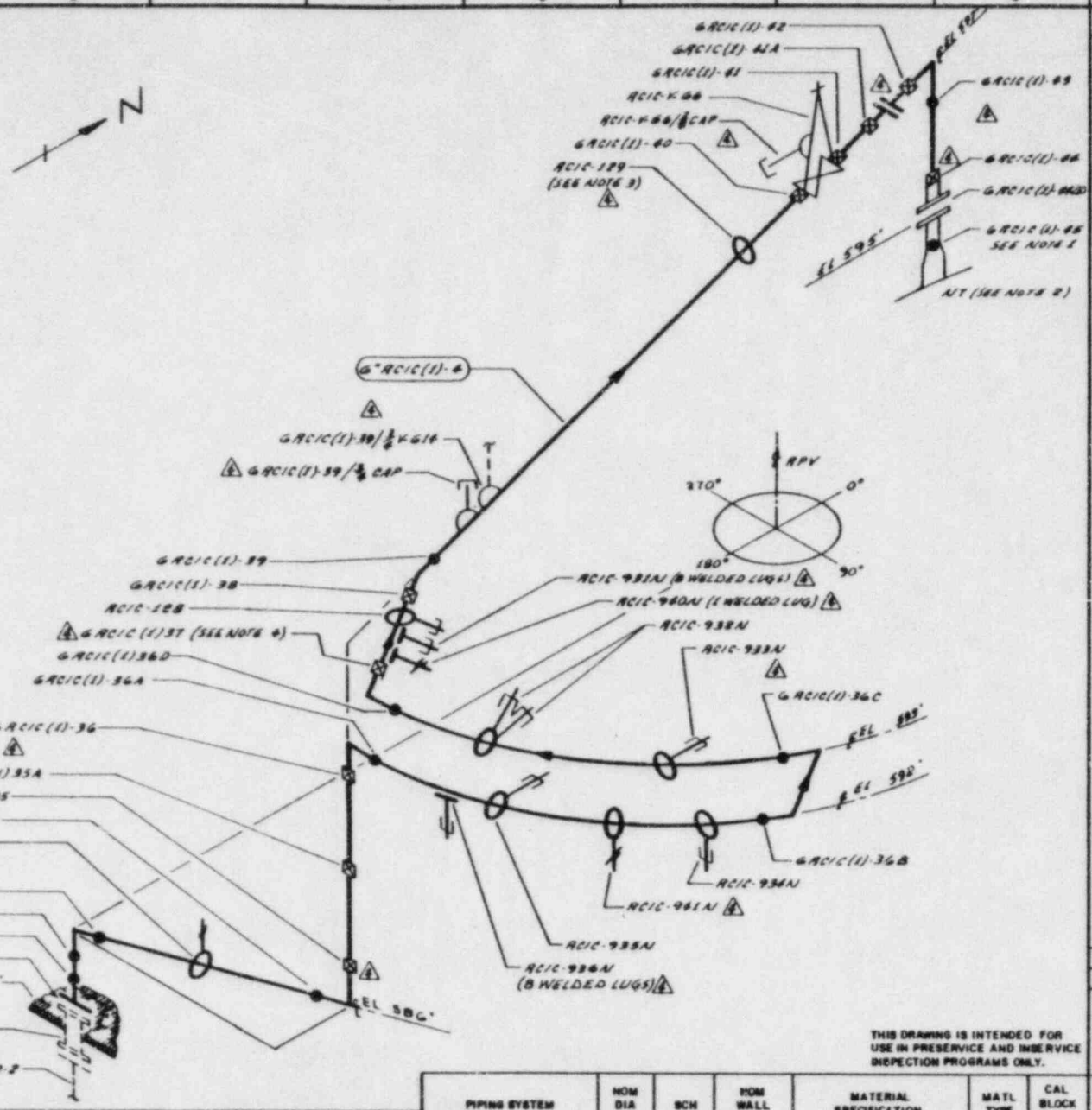
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RESIDUAL HEAT REMOVAL / REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-2 | REV 3

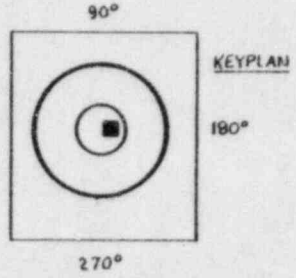


NOTES:

1. WELD G-RCIC(I)-45 UTILIZES CAL BLOCK UT-107.
2. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-111.
3. TEMPORARY SUPPORTS INSTALLED WHEN DISCONNECTED FROM RPV.
4. ACCESS TO WELD G-RCIC(I)-37 ▲4 REQUIRES REMOVAL OF RRC-940N

REFERENCES:

BOVEE & CRAIL ISOMETRIC RCIC-G59-27.29 REV 12



QUALITY CLASS: 1		ASME CODE CLASS: 1			
ENGR: D. PARKER	DRAWN: [illegible]	DATE: 4-26-78			

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RESIDUAL HEAT REMOVAL / REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO.: RCIC-102-3 REV 4

NO	DATE	REVISION	BY	CHKD	APPVD
4	7-6-78	REVISED AS NOTED ADDED KEYPLAN & LUGS	[illegible]	[illegible]	TRC
3	11-6-78	REDRAWN - CONFIGURATION CHG - ADDED WELDS	[illegible]	[illegible]	RHB
2	8-30-78	ADDED NOTE 2	[illegible]	[illegible]	RHB
1	7-10-78	CAL BLOCK REFERENCE CHANGE	[illegible]	[illegible]	LFD
0	5-19-78	ISSUED FOR USE	[illegible]	[illegible]	LFD
A	5-10-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
G"-RCIC(I)-4	6	80	0.432	SA 106 GR B	CS	UT-98
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(10)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-23-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
6RHR(10)-1									
	VLV TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RHR-520									
	RIGID	IWF	F-X	VT3H				F	
RHR-979N									
	RIGID	IWF	F-X	VT3H				F	
6RHR(10)-2									
	PIPE TO VLV	B-J	B9.11	VOL	UT-28			07	FITTING TO FITTING < 6"
			B9.11	SUR				07	
RHR-V-19-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
6RCIC(1)-1									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-5									
	EL TO EL	B-J	B9.11	VOL	UT-28			07	FITTING TO FITTING.
			B9.11	SUR				07	
6RCIC(1)-7									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RCIC(1)-8									
	PIPE TO TEE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-V-13-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RCIC-V-13-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
6RCIC(1)-9									
	VLV TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-10									
	PIPE TO TEE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-11									
	TEE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-94R1									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	
RCIC-102									
	STRUT	IWF	F-X	VT3H				F	
RCIC-103									
	STRUT	IWF	F-X	VT3H				F	
RCIC-104									
	SPRING	IWF	F-X	VT3H				F	
6RCIC(1)-12									
	PIPE TO VLV	B-J	B9.11	VOL	UT-28			F6	
			B9.11	SUR				F6	
RCIC-V-65-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RCIC-V-65-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RCIC(1)-13									
	VLV TO PIPE	B-J	B9.11	VOL	UT-28			F6	
			B9.11	SUR				F6	
6RCIC(1)-14									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			F6	
			B9.11	SUR				F6	
6RCIC(1)-15									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-15/3/4SP-19B									
	PIPE TO WOL	B-J	B9.32	SUR				07	
6RCIC(1)-16									
	PIPE TO PEN	B-J	B9.11	VOL	UT-28			07	PEN X-2.
			B9.11	SUR				07	
6RCIC(1)-17									
	PEN TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-942N									
	SPRING	IWF	F-X	VT3H				F	
6RCIC(1)-18									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-19									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-19A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-126									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX2	S/N 585/586

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-938N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 2378
RCIC-939N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4476
6RCIC(1)-20									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-21									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-21A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-22									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-23									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-24									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-25									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-937N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 2571
6RCIC(1)-26									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-27									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RCIC(1)-28									
	PIPE TO FLANGE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-28BD									
	FLANGE BOLTING	B-G-2	B7.50	VT-1				F	
6RCIC(1)-29									
	FLANGE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-30									
	PIPE TO FLANGE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-31BD									
	FLANGE BOLTING	B-G-2	B7.50	VT-1				F	
6RCIC(1)-31									
	FLANGE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-32									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-33									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-127									
	SPRING	IWF	F-X	VT3H				F	
6RCIC(1)-34									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-35									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-35A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RCIC(1)-36									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-36A									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-936N									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX2	S/N 22373/223
RCIC-935N									
	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 627
RCIC-941N									
	SPRING	IWF	F-X	VT3H				F	
RCIC-934N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 3912
6RCIC(1)-36B									
	PIPE TO U-TURN	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-36C									
	U-TURN TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
RCIC-933N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 3903
RCIC-932N									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX2	S/N 664/643
6RCIC(1)-36D									
	PIPE TO EL	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-37									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	

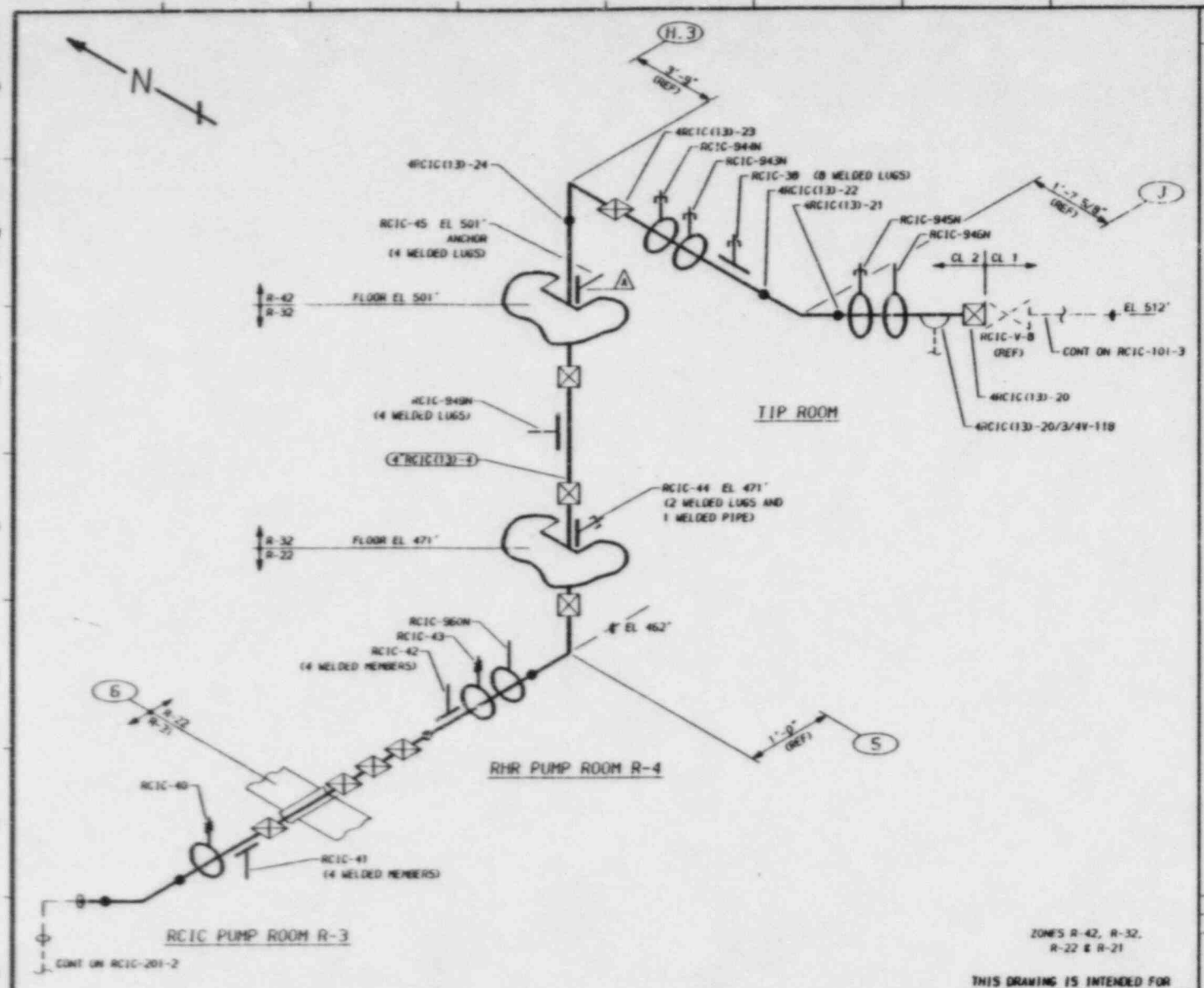
WNP-02
INTERVAL: C1
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER. OUTAGE	REQ.	NOTES
RCIC-940N(W)	1 WELDED LUG	B-K-1	B10.10	VOL	UT-28		F	3/4"Wx1 1/2"Hx3"L.
RCIC-940N	SPRING	IWF	F-X	VT3H			F	
RCIC-931N(W)	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-28		F	3/4"Wx1 1/2"Hx3"L.
RCIC-931N	PSA-3 SNUBBER	IWF	F-X	VT3H			UVX2	S/N 4422
RCIC-128	PSA-3 SNUBBER	IWF	F-X	VT3H			UVX2	S/N 4492
6RCIC(1)-38	PIPE TO EL	B-J	B9.11	VOL	UT-28		07	
			B9.11	SUR			07	
6RCIC(1)-39	EL TO PIPE	B-J	B9.11	VOL	UT-28		07	
			B9.11	SUR			07	
RCIC-129	SPRING	IWF	F-X	VT3H			F	DOUBLE CONSTANT SPRING HANGER
6PCIC(1)-40	PIPE TO VLV	B-J	B9.11	VOL	UT-28		07	
			B9.11	SUR			07	
RCIC-V-66-BDY	VALVE BODY	B-M-2	B12.40	VT-3			C	
6RCIC(1)-41	VLV TO PIPE	B-J	B9.11	VOL	UT-28		07	
			B9.11	SUR			07	
6RCIC(1)-41A	PIPE TO FLANGE	B-J	B9.11	VOL	UT-28		F6	
			B9.11	SUR			F6	
6RCIC(1)-41ABD	FLANGE BOLTING	B-G-2	B7.50	VT-1			F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RCIC(1)-42									
	FLANGE TO EL	B-J	B9.11	VOL	UT-28			F6	
			B9.11	SUR				F6	
6RCIC(1)-43									
	EL TO PIPE	B-J	B9.11	VOL	UT-28			F6	
			B9.11	SUR				F6	
6RCIC(1)-44									
	PIPE TO FLANGE	B-J	B9.11	VOL	UT-28			07	
			B9.11	SUR				07	
6RCIC(1)-44BD									
	FLANGE BOLTING	B-G-2	B7.50	VT-1				F	12 1-1/8" DIA. BOLTS
6RCIC(1)-45									
	FLG TO NOZZLE	B-J	B9.11	VOL	UT-107			F6	
			B9.11	SUR				F6	
RCIC-PB-102(L)									
	LK PRES BNDRY	B-P	B15.10	VT-2				A	
RCIC-PB-102(H)									
	HYDRO PRES BNDR	B-P	B15.11	VT-2				P	



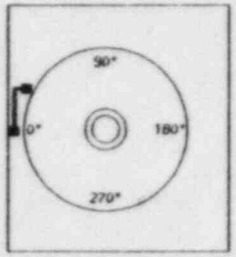
NOTES:

1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

151 - 219

BOVEE CRAIL ISIMETRICS
RCIC-662-6 REV 6
RCIC-662-7.10 REV 4



KEY PLAN

ZONES R-42, R-32, R-22 & R-21

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RCIC(13)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APVD
2	12-6-83	GENERAL UP-DATE REDRAWN	K-McA	DPR	TFH
1	12-2-81	AUGMENTED ISI ADDED	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH DMP	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

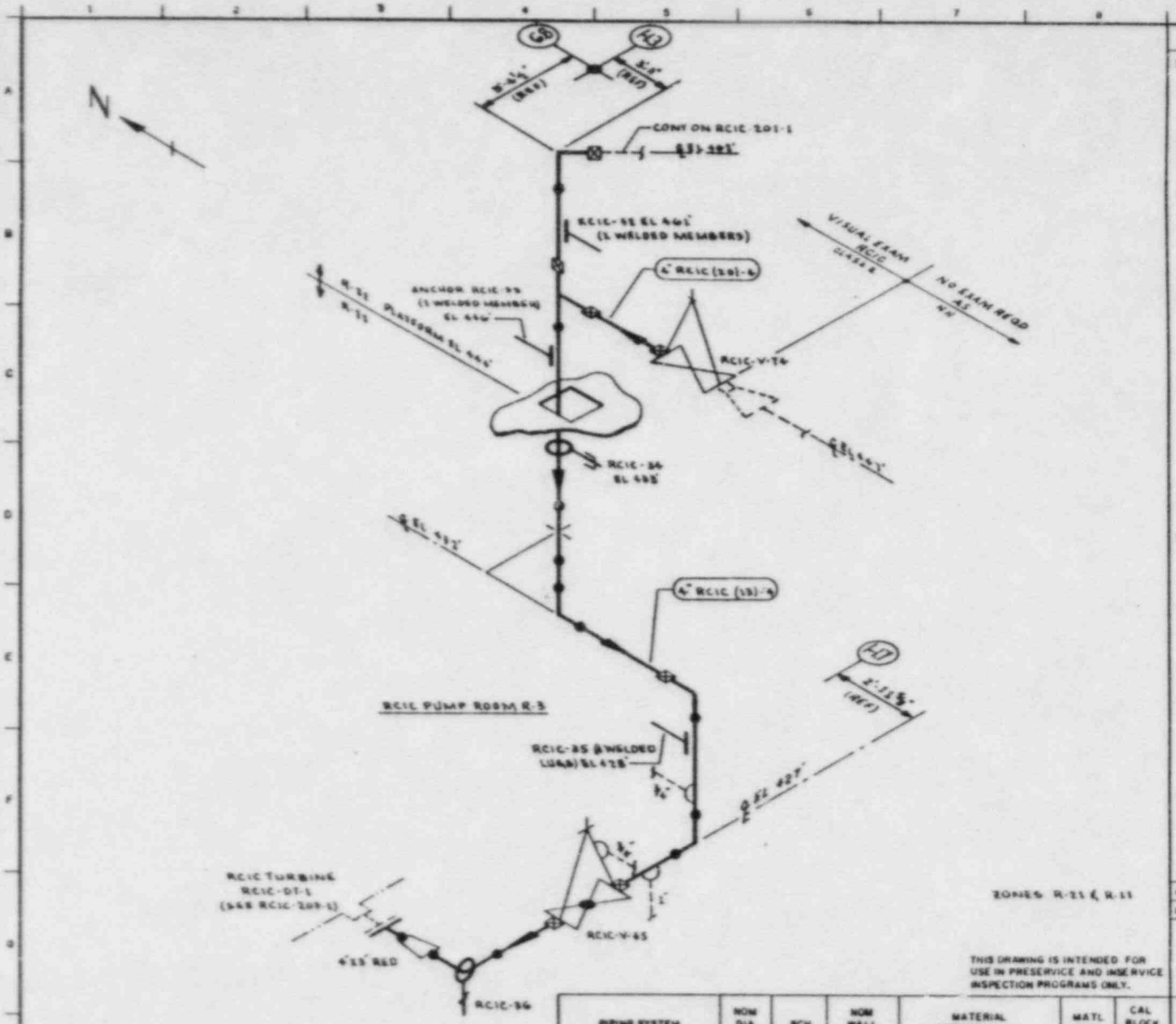
ENGR: GA KUGLER | DRAWN: K-McA | DATE: 7-6-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY TO RCIC-DT-1

DWG NO. RCIC-201-1 | REV 2



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR 2 INCH PIPING 4" DIA OR LESS (CONN SHOWN -- DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. AT LOCATIONS WHERE LEAKAGE IS NORMALLY EXPECTED (EG, VALVE STEM & PUMP SEAL LEAKOFF CONN) VERIFY LEAKAGE COLLECTION SYSTEM OPERABILITY ONLY. NO HYDRO TEST OF COLLECTION SYSTEM IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-602-11.15	REV 2
RCIC-598-1	REV 0
RCIC-602-11.15H	REV 2
RCIC-598-1H	REV 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" RCIC (13)-4	4"	80	0.337	SA 106 GR B	CS	NA
4" RCIC (20)-4	4"	80	0.337	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12 22 78	ISSUED FOR USE	KMA		
A	10 3 78	ISSUED FOR INFORMATION ONLY	KMA		

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN K. M. A. | DATE 7-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY TO RCIC-DT-1

DWG NO: RCIC-201-2 | REV 0

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-201

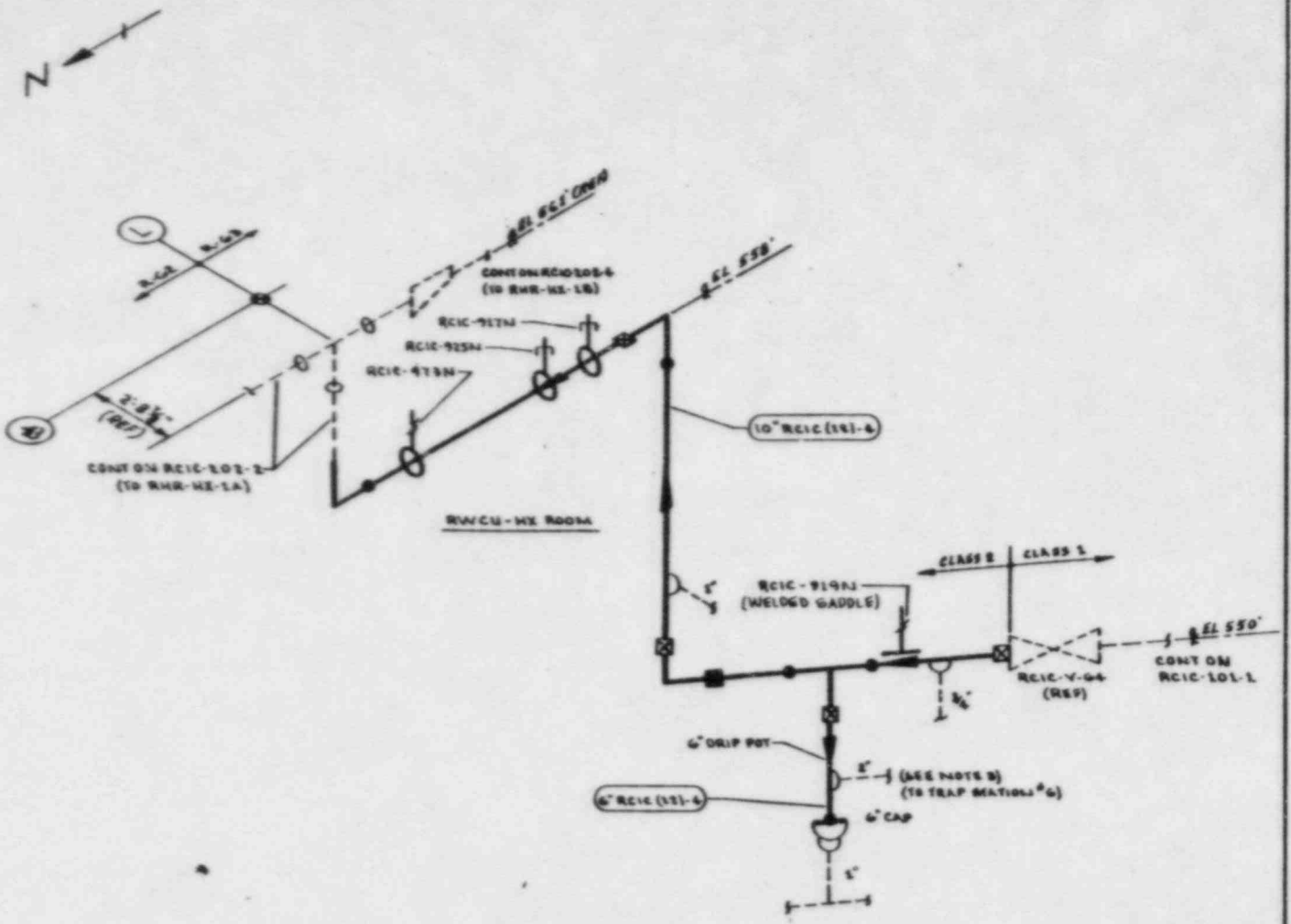
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
4RCIC(13)-20									
	VLV TO PIPE	AUGMT	N/A	VOL	UT-30			FK	
RCIC-945N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UX3	S/N 9924, +QC I SN.
4RCIC(13)-21									
	PIPE TO EL	AUGMT	N/A	VOL	UT-30			FK	
4RCIC(13)-22									
	EL TO PIPE	AUGMT	N/A	VOL	UT-30			FK	
RCIC-38									
	PSA-1 SN(2)	IWF	F-X	VT3H				UX3	S/N E214/W599, +QC I SN.
RCIC-943N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UX3	S/N 577, +QC I SN.
RCIC-944N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UX3	S/N T4437/B390, +QC I SN.
4RCIC(13)-23									
	PIPE TO EL	AUGMT	N/A	VOL	UT-30			FK	
4RCIC(13)-24									
	EL TO PIPE	AUGMT	N/A	VOL	UT-30			FK	
RCIC-44									
	PSA-1/4 SNUBBER	IWF	F-X	VT3H				UW2	S/N 432, +QC I SN.
RCIC-34									
	PSA-1/2 SNUBBER	IWF	F-X	VT3H				UW3	S/N 4008, +QC I SN.
RCIC-962N									
	PSA-1/2 SNUBBER	IWF	F-X	VT3H				UW3	S/N 2115, +QC I SN.
RCIC-961N									
	PSA-1/4 SNUBBER	IWF	F-X	VT3H				UW3	S/N 6225, +QC I SN, THIS SN IS ON DRIP-LEG NEAR VALVE RCIC-V-45.

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-PB-201(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RCIC-PB-201(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



ZONES R-G2 & R-G3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

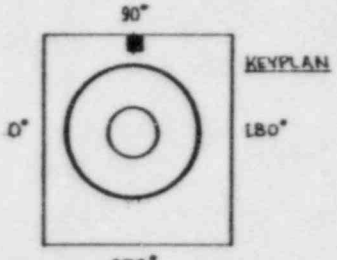
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH TRAP STATION. FROM TRAP STATION TO BAROMETRIC CONDENSER, VERIFY THAT DRAINAGE SYSTEM IS OPERATIVE.

REFERENCES:

BOVEN & CRAIL ISOMETRICS

RCIC-GG3-3.5	REV 6
RCIC-GG3-6	REV 4



1	9-16-81	ADDED HANGERS RHR-912N, 919N, 920N & 925N	KGK	DAR	TSB
0	10-23-78	ISSUED FOR USE	KGK	TSB	TSB
A	10-9-78	ISSUED FOR INFORMATION ONLY	KGK	TSB	TSB
NO	DATE	REVISION	BY	CHKD	APPVD

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (12)-4	10	100	0.719	SA 106 GR B	CS	NA
6" RCIC (12)-4	6	120	0.562	SA 106 GR B	CS	NA

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 7-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

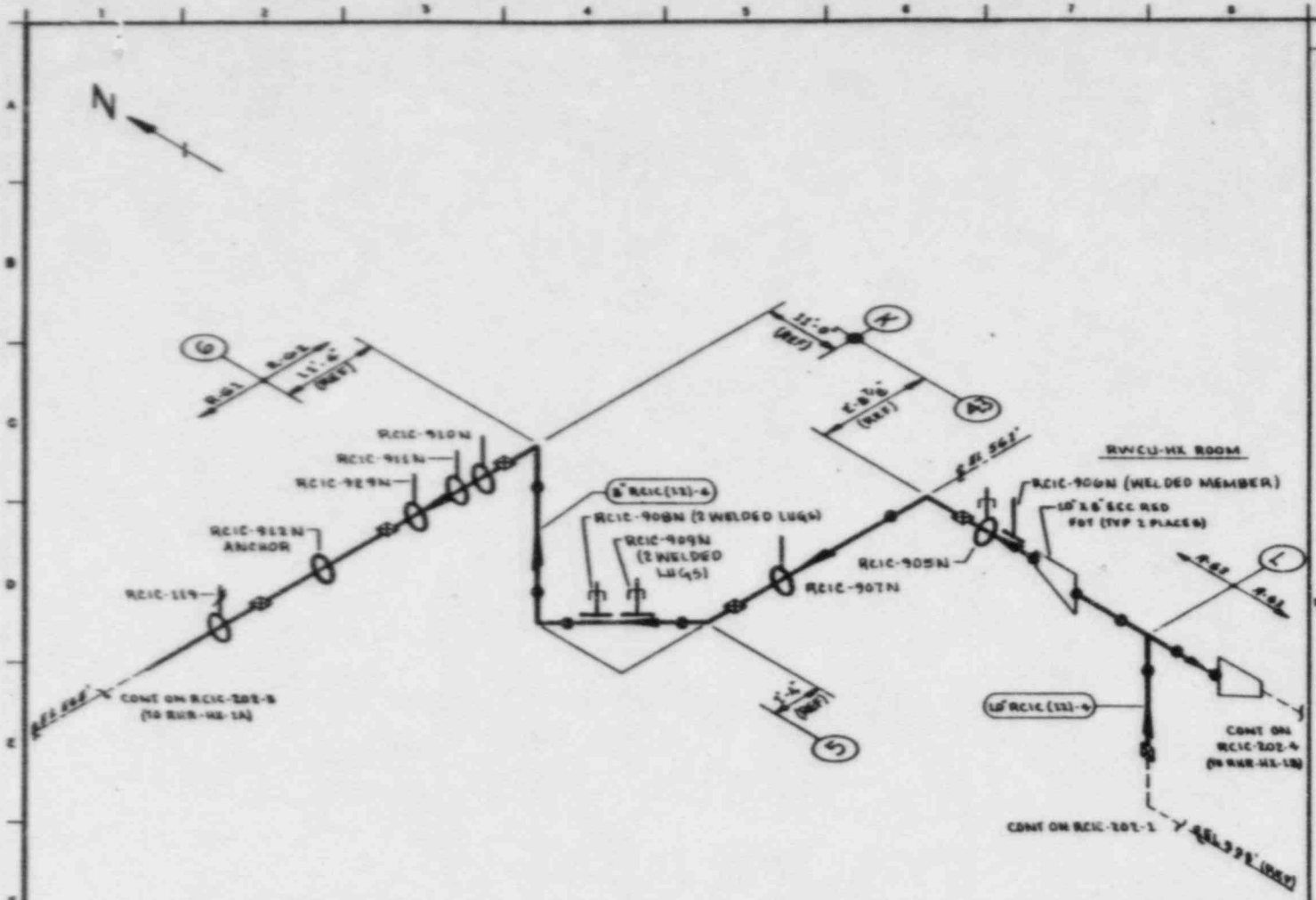
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

CONDENSING MODE STEAM SUPPLY TO RHR-HX-1A & 1B

DWG NO: RCIC-202-1 | REV 1



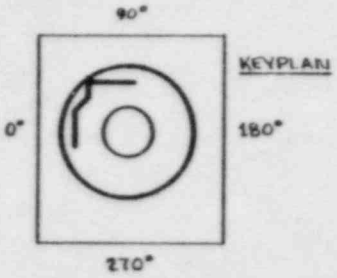
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-GGS-1.1 REV A
RCIC-GGS-4.9 REV 9



ZONES R-G9, R-G2 & R-G1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC(12)-4	10	100	0.718	SA 106 GR B	CS	NA
8" RCIC(12)-4	8	140	0.594	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	10-2-85	ADDED HANGERS & KEYPLAN	KMJ	DR	ITR
0	12-23-19	ISSUED FOR USE	KMJ		
A	9-5-18	ISSUED FOR INFORMATION ONLY	KMJ		

QUALITY CLASS: 1 | ASME CODE CLASS: 1

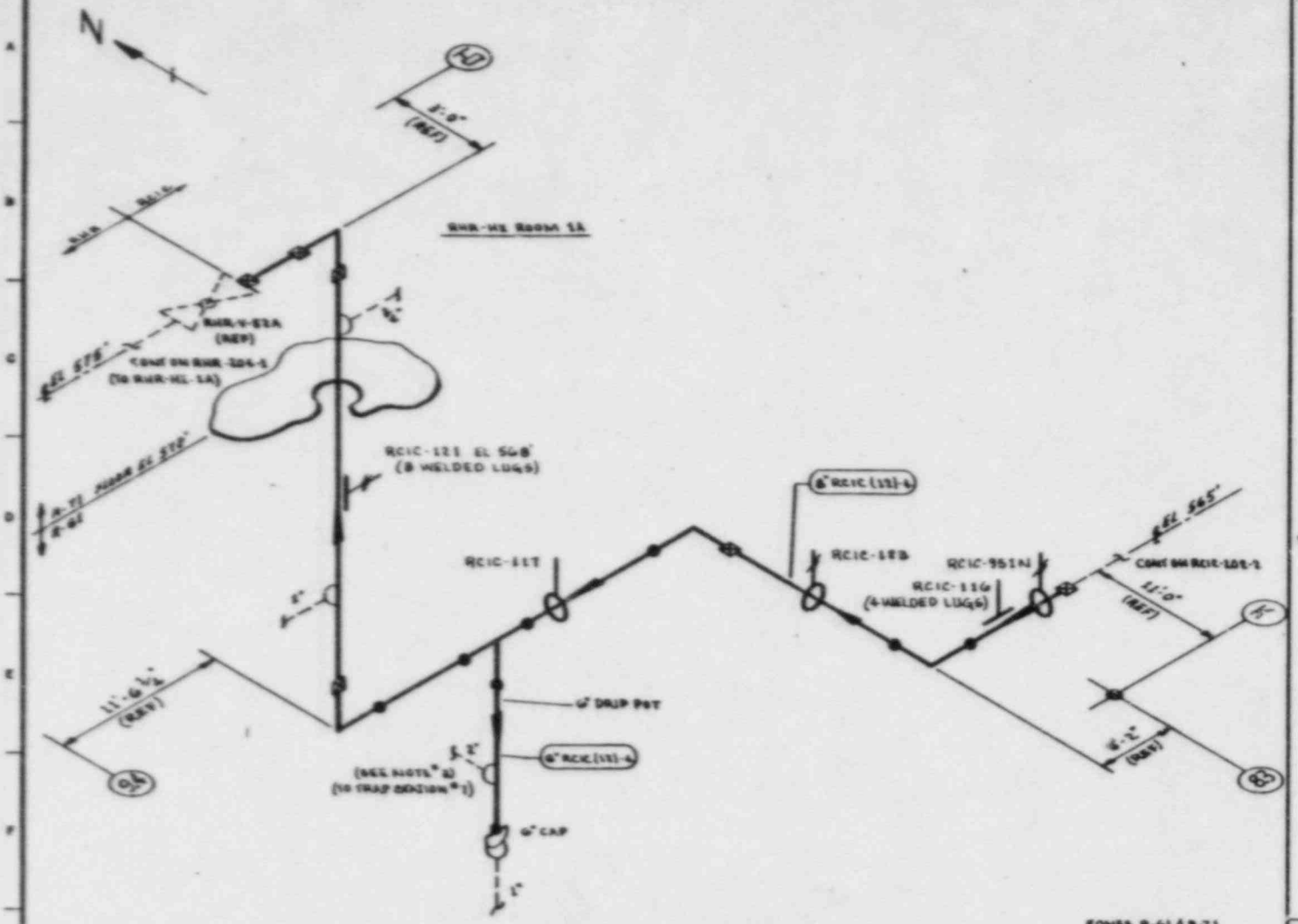
ENGR: G.A. KUGLER | DRAWN: K. McA. | DATE: 7-18-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
CONDENSING MODE
STEAM SUPPLY TO RHR-HX-1A

DWG NO: RCIC-202-2 | REV 1

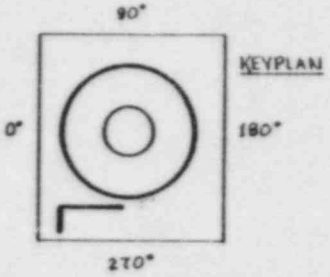


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH TRAP STATION. FROM TRAP STATION TO BAROMETRIC CONDENSER, VERIFY THAT DRAINAGE SYSTEM IS OPERATIVE.

REFERENCES:

BOVES & CRAIL ISOMETRIC RCIC-GGS-4.9 REV 9



1	12-7-83	ADDED HANGERS & KEYPLAN	[illegible]	APK	RW
0	12-13-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
Δ	11-9-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]
NO	DATE	REVISION	BY	CHKD	APPVD

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC (12)-4	8"	100	0.595	SA 106 GR B	CS	NA
6" RCIC (12)-4	6"	120	0.593	SA 106 GR B	CS	NA

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

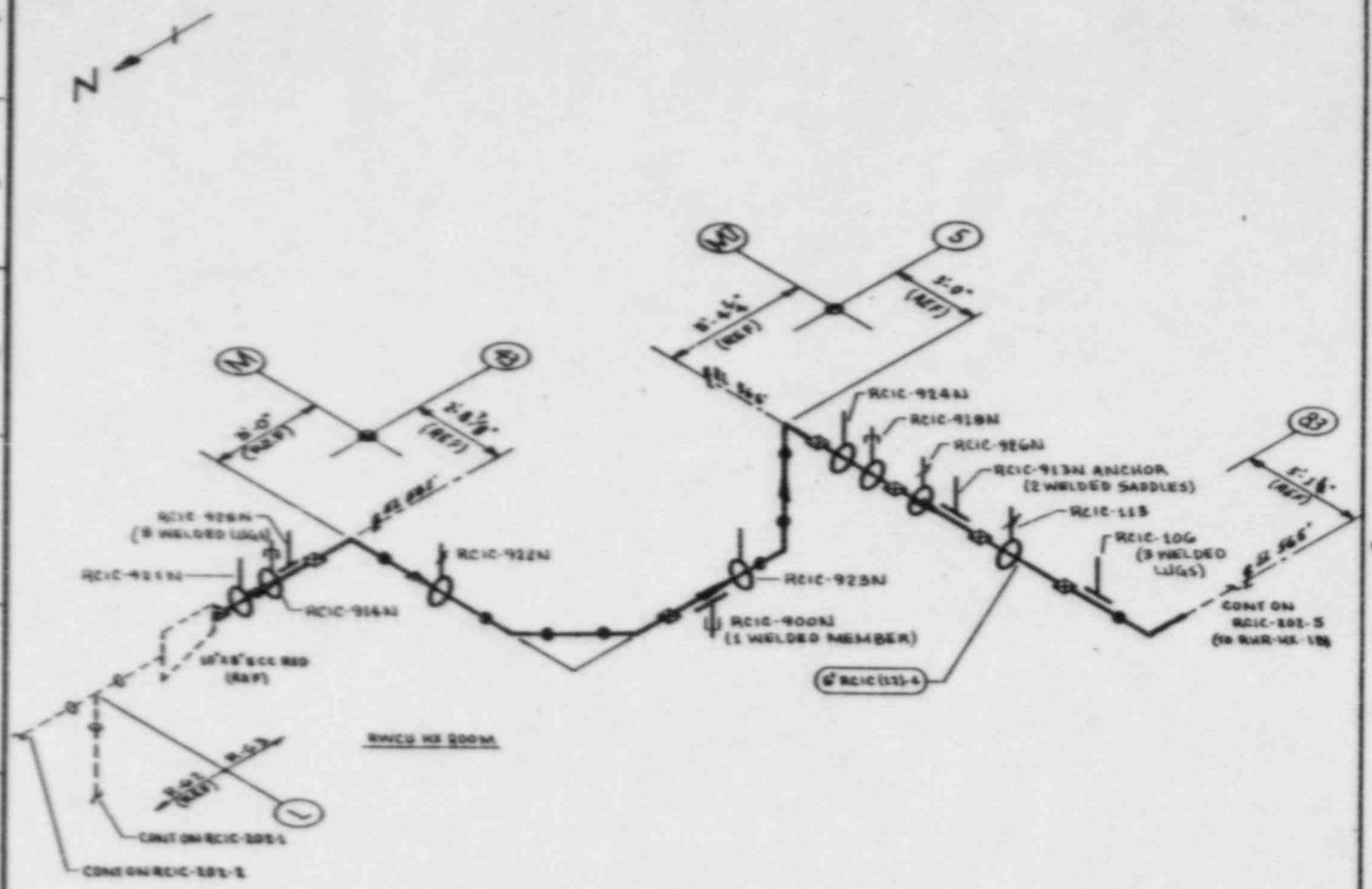
QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. RUGHEIMER	DATE: 7-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
CONDENSING MODE STEAM SUPPLY TO RHR-HX-1A

DWG NO: RCIC-102-3 REV 1



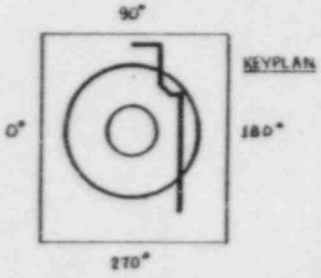
ZONE H-69

NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RCIC-GG4-1.1 REV 8



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (12)-4	6	100	0.593	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	10 2 85	ADDED HANGERS & KEYPLAN	[illegible]	[illegible]	[illegible]
0	12-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	7-1-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

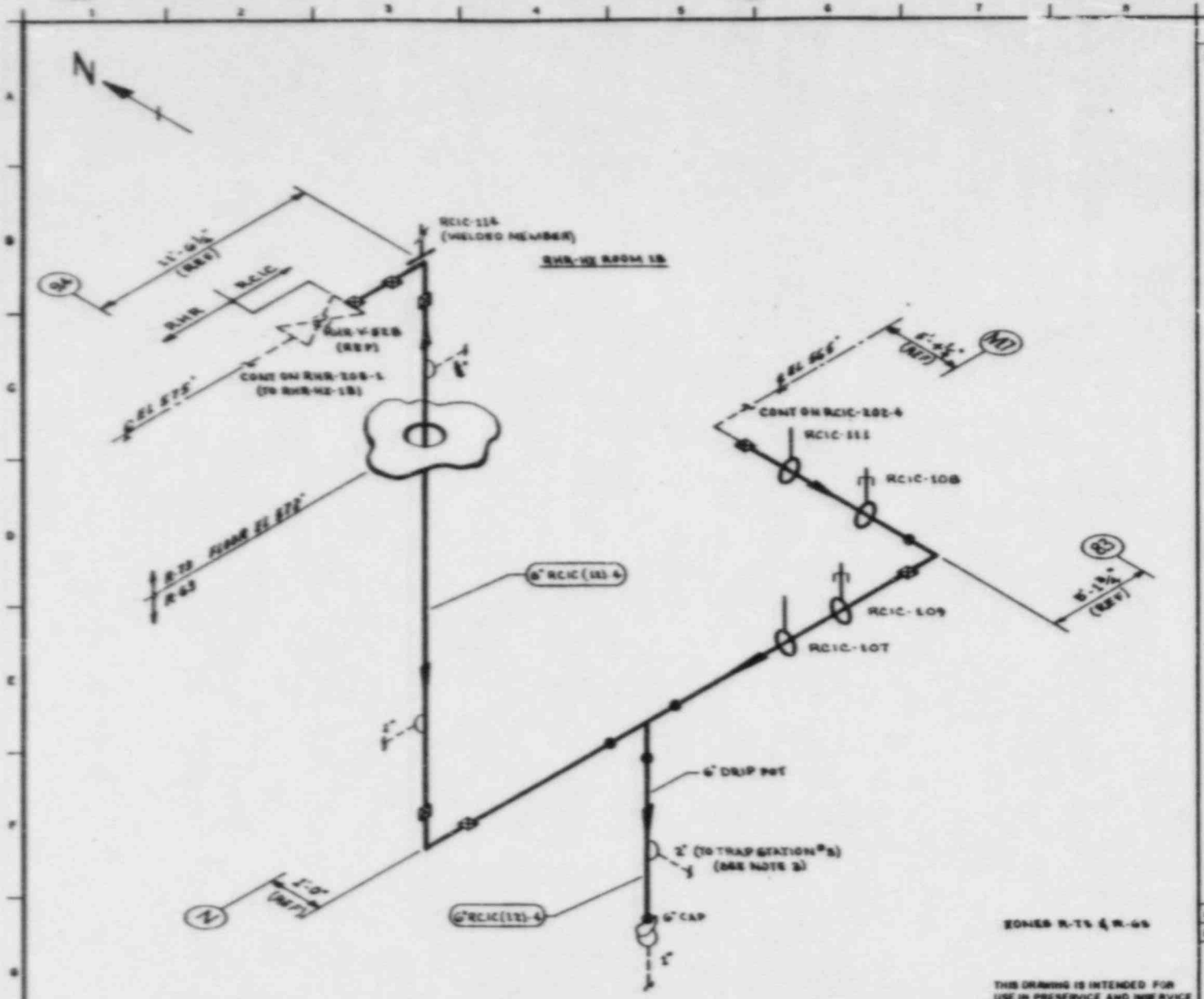
ENGR: G.A. KUGLER | DRAWN: W. M. [illegible] | DATE: 7-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
CONDENSING MODE
STEAM SUPPLY TO RHR-HX-1B

DWG NO: RCIC-202-4 | REV 1

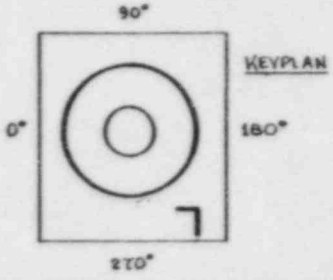


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A SYSTEM WALK DOWN FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE INTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH TRAP STATION TO BAROMETRIC CONDENSER. VERIFY THAT DRAINAGE SYSTEM IS OPERATING.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RCIC-G64-B.10 REV 10



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC (12)-4	8"	100	0.593	SA 106 GR B	CS	NA
6" RCIC (12)-4	6"	120	0.562	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-2-93	ADDED HANGERS & KEYPLAN	KGK	MR	RB
0	10-23-90	ISSUED FOR USE	KGK	[illegible]	[illegible]
A	7-31-90	ISSUED FOR INFORMATION ONLY	KGK	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: GA KUGLER | DRAWN: K. McA | DATE: 7-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
CONDENSING MODE
STEAM SUPPLY TO RHR-HX-1B

DWG NO: RCIC-202-5 | REV 1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-202

SYSTEM OR COMPONENT: RCIC(121)-4
DESCRIPTION: COND MODE STM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RCIC-919N	SPRING	N/A	N/A	N/A				OT	
RCIC-917N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-925N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-920N	SPRING	N/A	N/A	N/A				OT	
RCIC-906N	STRUT	N/A	N/A	N/A				OT	
RCIC-905N	PSA-10 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-907N	STRUT	N/A	N/A	N/A				OT	
RCIC-909N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-908N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-910N	STRUT	N/A	N/A	N/A				OT	
RCIC-911N	STRUT	N/A	N/A	N/A				OT	
RCIC-929N	STRUT	N/A	N/A	N/A				OT	
RCIC-912N	ANCHOR	N/A	N/A	N/A				OT	
RCIC-119	SPRING	N/A	N/A	N/A				OT	
RCIC-951N	SPRING	N/A	N/A	N/A				OT	
RCIC-116	STRUT	N/A	N/A	N/A				OT	

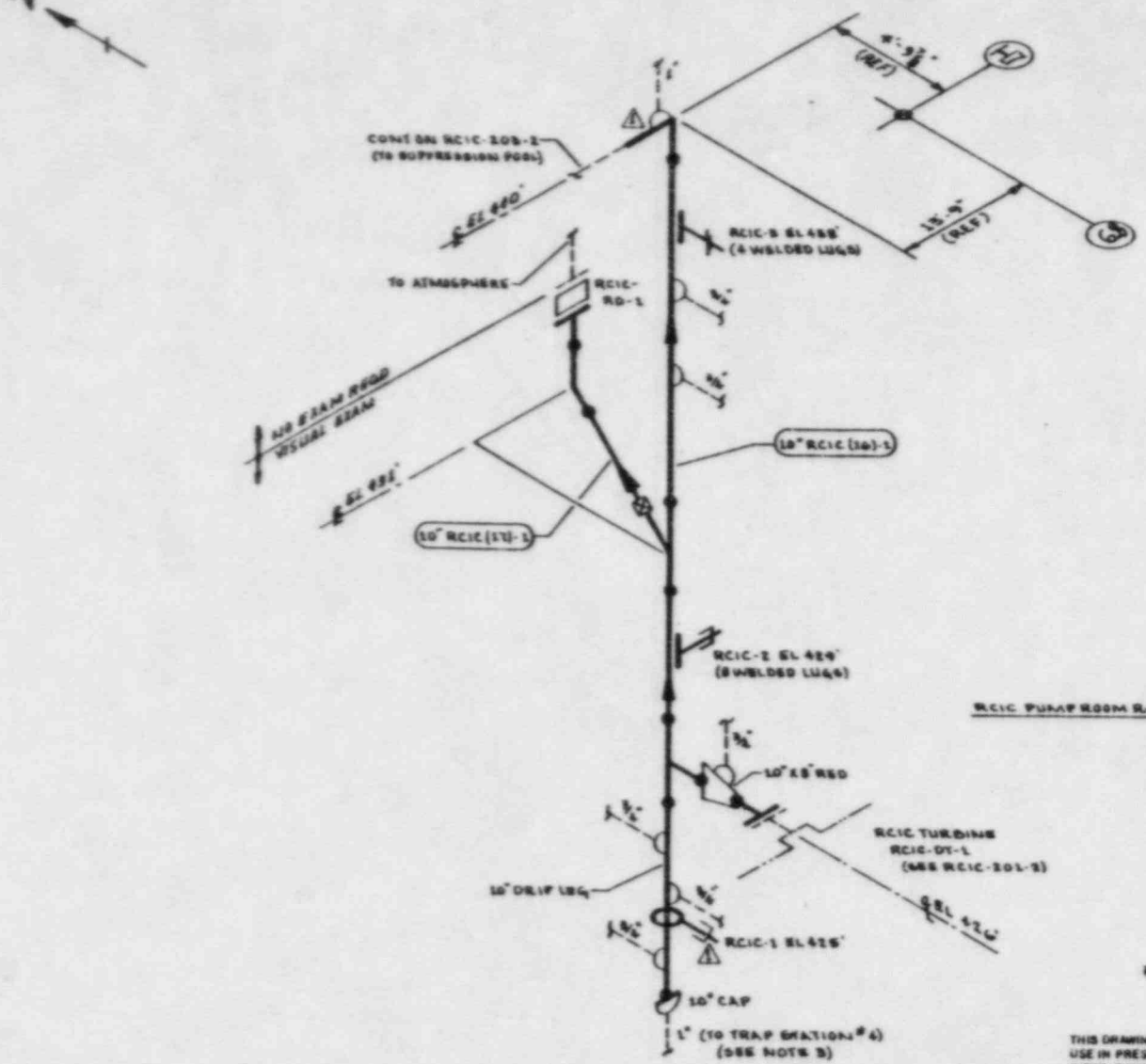
WNP-02
INTERVAL: 01
DRAWING NO. RCIC-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(121)-4
DESCRIPTION: COND MODE STM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-125	SPRING	N/A	N/A	N/A				OT	
RCIC-117	STRUT	N/A	N/A	N/A				OT	
RCIC-121	SPRING	N/A	N/A	N/A				OT	
RCIC-921N	STRUT	N/A	N/A	N/A				OT	
RCIC-914N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-928N	STRUT	N/A	N/A	N/A				OT	
RCIC-922N	SPRING	N/A	N/A	N/A				OT	
RCIC-900N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-923N	STRUT	N/A	N/A	N/A				OT	
RCIC-924N	STRUT	N/A	N/A	N/A				OT	
RCIC-918N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-926N	SPRING	N/A	N/A	N/A				OT	
RCIC-913N	ANCHOR	N/A	N/A	N/A				OT	
RCIC-113	SPRING	N/A	N/A	N/A				OT	
RCIC-106	BOX	N/A	N/A	N/A				OT	
RCIC-111	BOX	N/A	N/A	N/A				OT	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: COND MODE SIM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-108	PSA-1/2 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-109	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RCIC-107	BOX	N/A	N/A	N/A				OT	
RCIC-114	SPRING	N/A	N/A	N/A				OT	
RCIC-PA-202(H)	LK PRES BNDRY	C-H	C7.21	VT-2				P	
RCIC-PB-202(L)	HYDRO PRES BNDR	C-H	C7.20	VT-2				B	



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

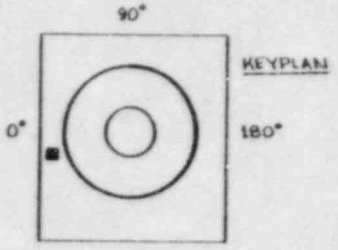
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH TRAP SKATION TO BAROMETRIC CONDENSER. VERIFY THAT DRAINAGE SYSTEM IS OPERATIVE.

REFERENCES:

BOWEN & CRAIL ISOMETRICS

RCIC-660-1	REV 8
RCIC-661-1 R	REV 6



PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (16)-1	10	STD	0.365	SA 106 GR B	CS	NA
10" RCIC (17)-1	10	STD	0.365	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-2-83	REVISED AS NOTED ADDED KEYPLAN	KAK	MR	TFH
0	11-15-83	ISSUED FOR USE	KAK	MR	TFH
A	10-3-78	ISSUED FOR INFORMATION ONLY	K.A.K.	ADAK	GLR

QUALITY CLASS: 1 | ASME CODE CLASS: 1

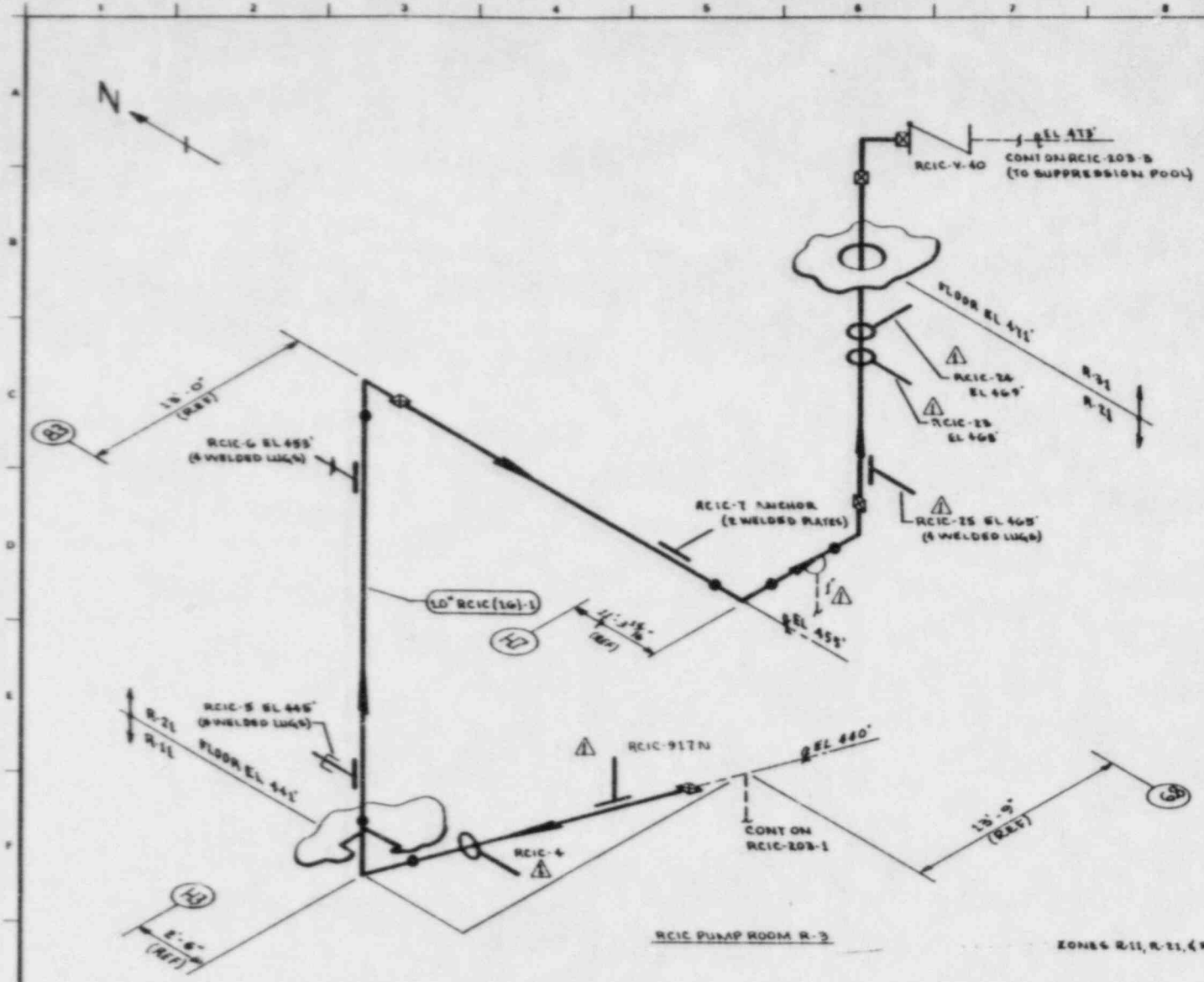
ENGR: G.A. KUGLER | DRAWN: K.M.K. | DATE: 7-31-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC TURBINE EXHAUST

DWG NO: RCIC-203-1 | REV 1



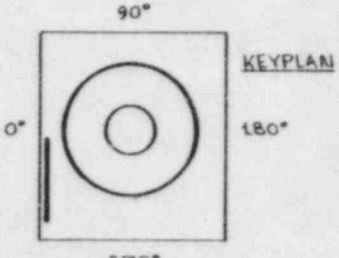
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. ⚠ For branch piping, 4" or less (conn. shown in dashed lines), extend visual leakage exam through the outermost normally closed nuclear class valve, or until transition to instrument tubing, unless otherwise noted.

REFERENCES:

BOVES & CRAIL ISOMETRICS

RCIC-600-2.4 REV 11



QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: K.M.c.A.	DATE: 7-21-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (16)-1	10	STD	0.365	SA 106 GR.B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-28-78	REVISED AS NOTED ADDED KEYPLAN	KMcA	GAK	[illegible]
0	11-17-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	7-21-78	ISSUED FOR INFORMATION ONLY	KMcA	GAK	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC TURBINE EXHAUST

DWG NO: RCIC-208-2 REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(16)-1
DESCRIPTION: RCIC TURBINE EXHAUST

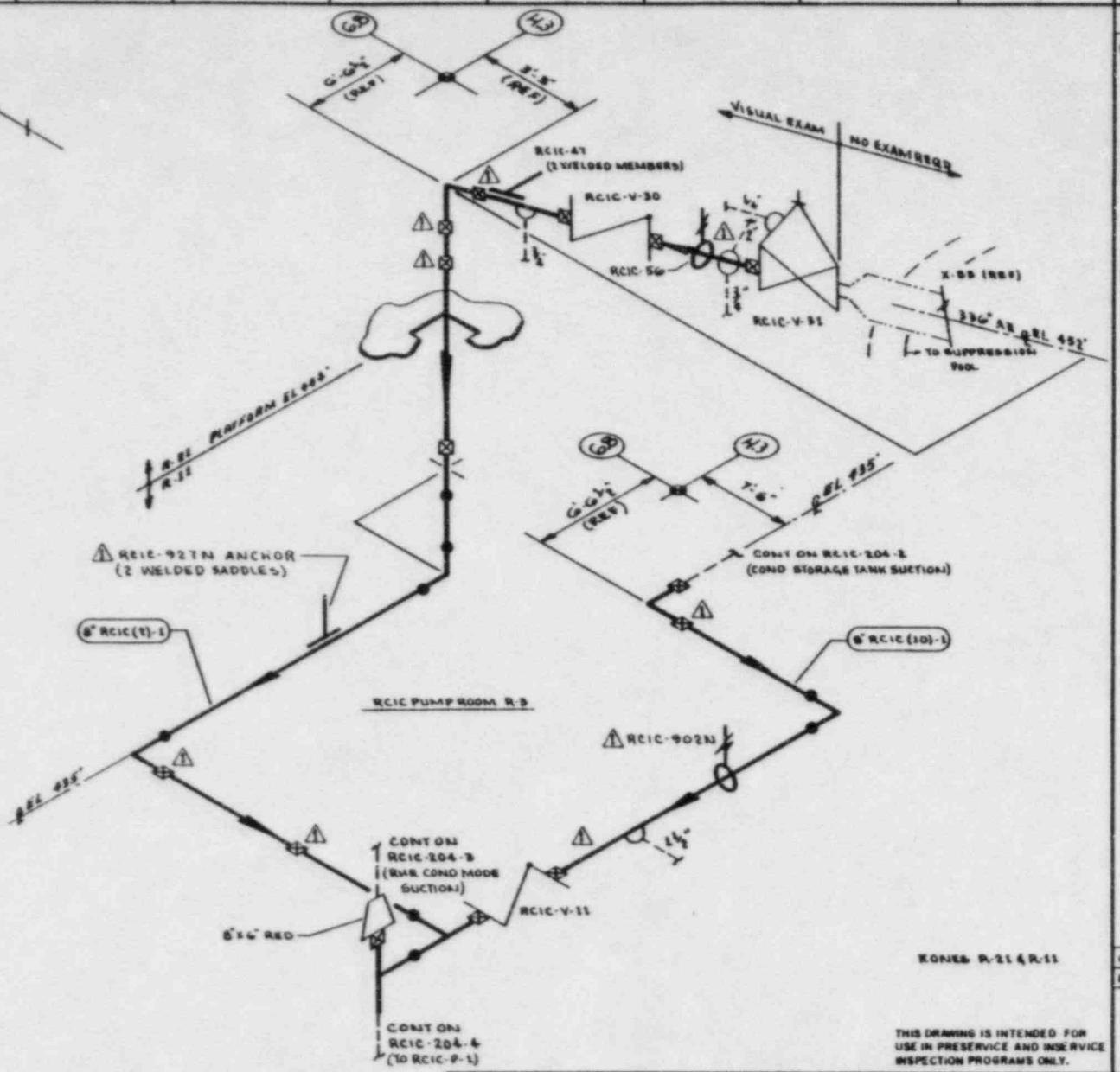
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-1	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 587
RCIC-2	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 572
RCIC-30	SPRING	IWF	F-X	VT3H				F	
RCIC-28	BOX	IWF	F-X	VT3H				F	
RCIC-3	SPRING (2)	IWF	F-X	VT3H				F	
RCIC-971N	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 603
RCIC-4	PSA-1 SNUBBER	IWF	F-3	VT3H				UX3	S/N 620
RCIC-5	PSA-1/2 SN(2)	IWF	F-X	VT3H				UW3	S/N E2139/W388
RCIC-6	SPRING	IWF	F-X	VT3H				F	
RCIC-7	ANCHOR	IWF	F-X	VT3H				F	
RCIC-25	STRUT	IWF	F-X	VT3H				F	
RCIC-23	STRUT	IWF	F-X	VT3H				F	
RCIC-24	STRUT	IWF	F-X	VT3H				F	
RCIC-26	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4415
RCIC-27	SPRING	IWF	F-X	VT3H				F	
RCIC-PB-203(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-203

SYSTEM OR COMPONENT: RCIC(16)-1
DESCRIPTION: RCIC TURBINE EXHAUST

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-PB-203(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



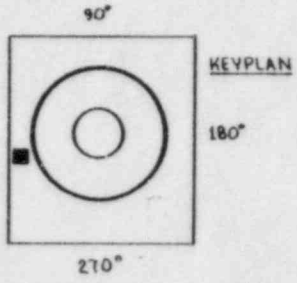
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. AT LOCATIONS WHERE LEAKAGE IS NORMALLY EXPECTED (EG VALVE STEM & PUMP SEAL LEAKOFF CONN) VERIFY LEAKAGE COLLECTION SYSTEM OPERABILITY ONLY. NO HYDRO TEST OF COLLECTION SYSTEM IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-GSG-1.B REV 6



ZONES R-21 & R-11

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8"RCIC (2)-1	8"	STD	0.322	SA 106 GR B	CS	NA
8" RCIC (10)-1	8"	STD	0.322	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-8-83	REVISED AS NOTED ADDED KEYPLAN	KMcA	GAK	[illegible]
0	12-27-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
Δ	10-9-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN: K. McA. | DATE: 7-24-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

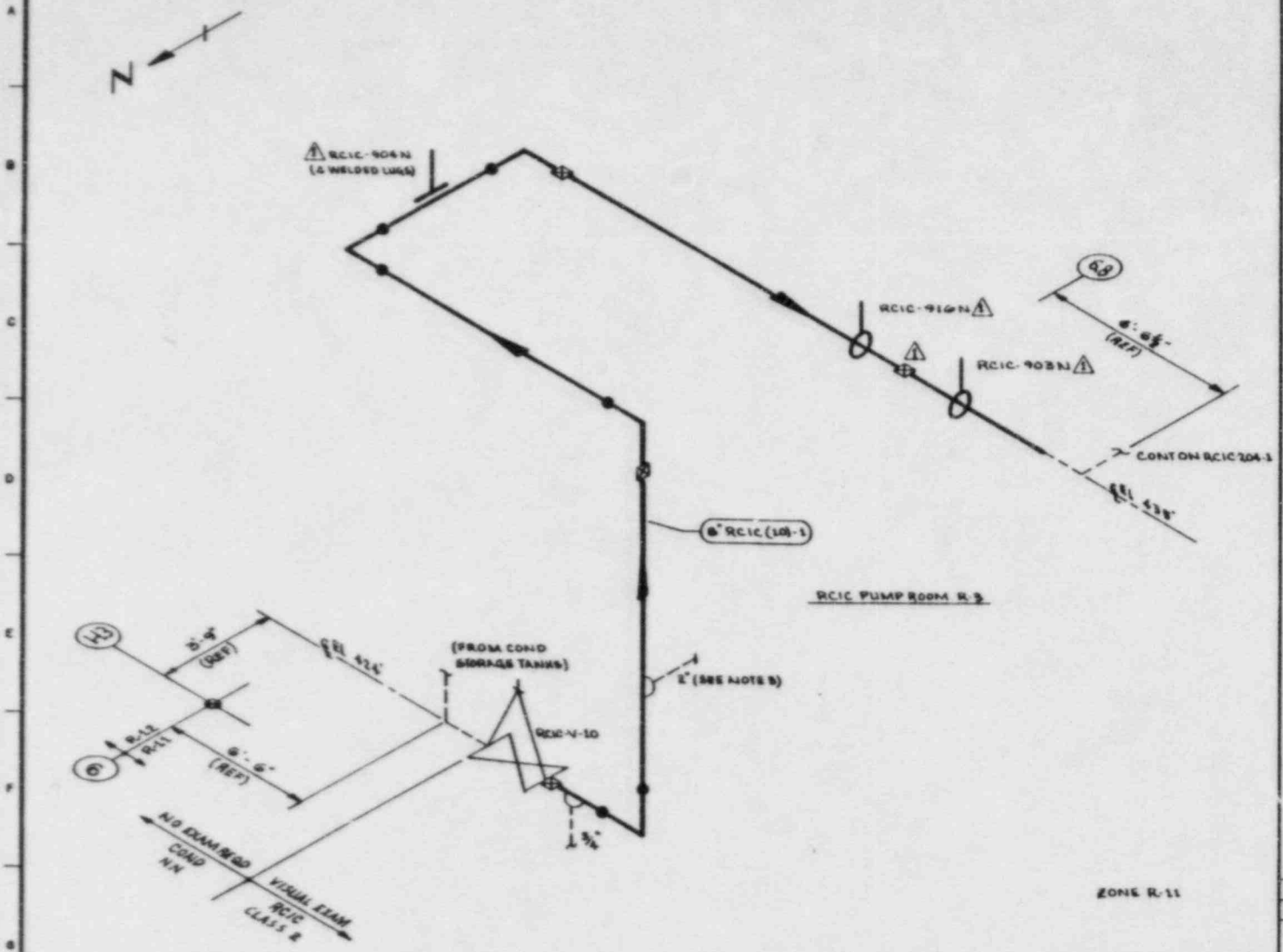
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC PUMP SUCTION LINES

DWG NO: RCIC-204-1 | REV 1



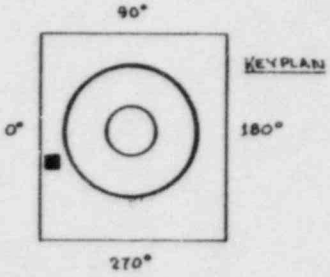
ZONE R-11

NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH PUMP RCIC-P-3.

REFERENCES:

BOYER & CRAIL ISOMETRICS
RCIC-G67-1.2 REV B



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC (10)-1	8	STD	0.322	SA 106 GR B	C-S	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-2-83	REVISED AS NOTED ADDED KEYPLAN	K.M.L.	GAK	TFB
0	12-29-78	ISSUED FOR USE	K.M.L.	GAK	TFB
A	10-5-78	ISSUED FOR INFORMATION ONLY	K.M.L.	GAK	TFB

QUALITY CLASS 1 | 4 SME CODE CLASS 2

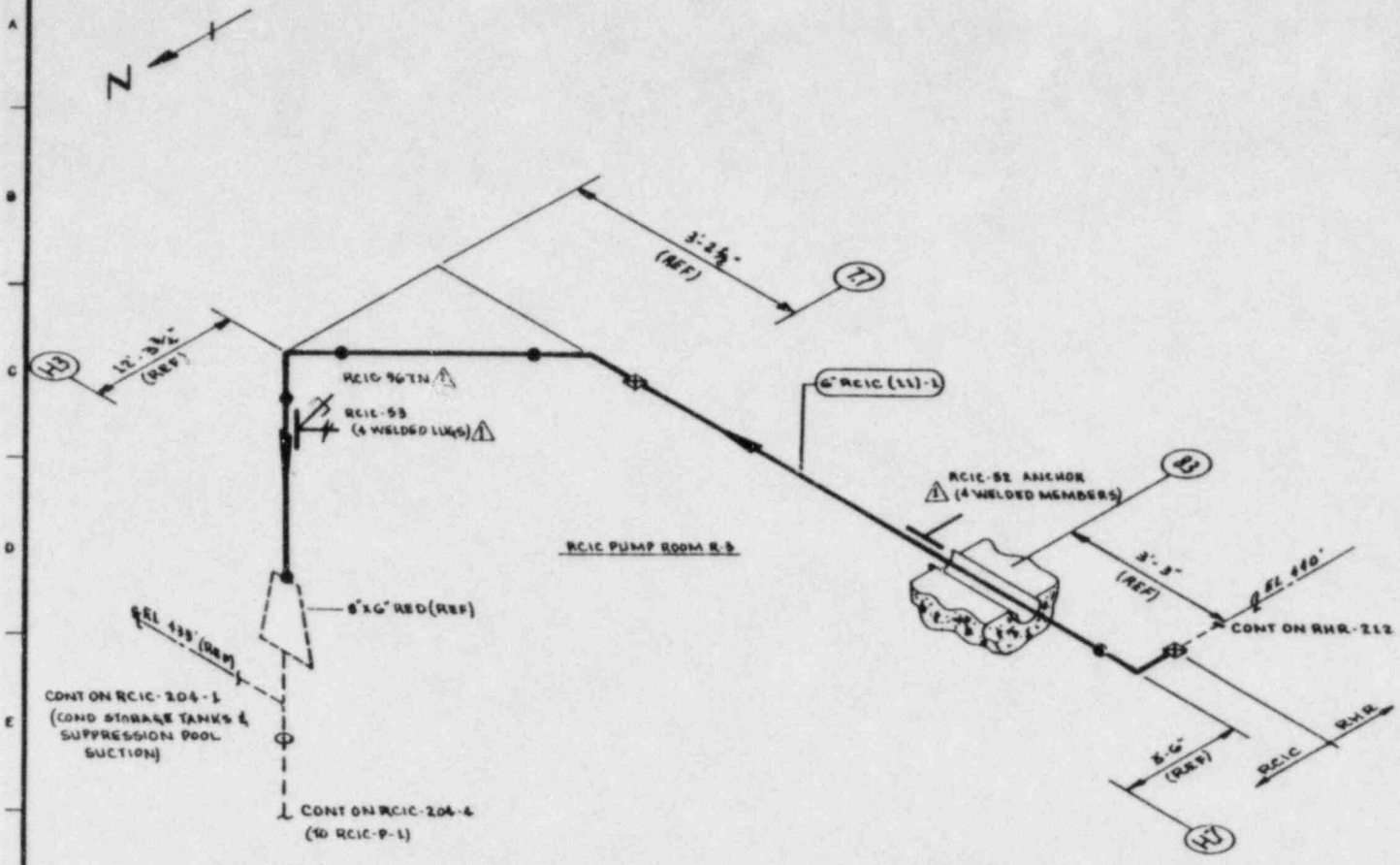
ENGR G.A. KUGLER | DRAWN K.M.L. | DATE 7-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC COND STORAGE TANK SUCTION

DWG NO: RCIC-204-2 | REV 1

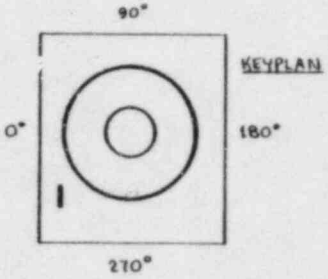


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVER & CRAIL ISOMETRIC
RCIC-GSB-1.2 REV 8



KEYPLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RCIC(11)-1	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-2-83	REVISED AS NOTED ADDED KEYPLAN	[illegible]	[illegible]	TLR
0	12-11-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
Δ	10-3-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

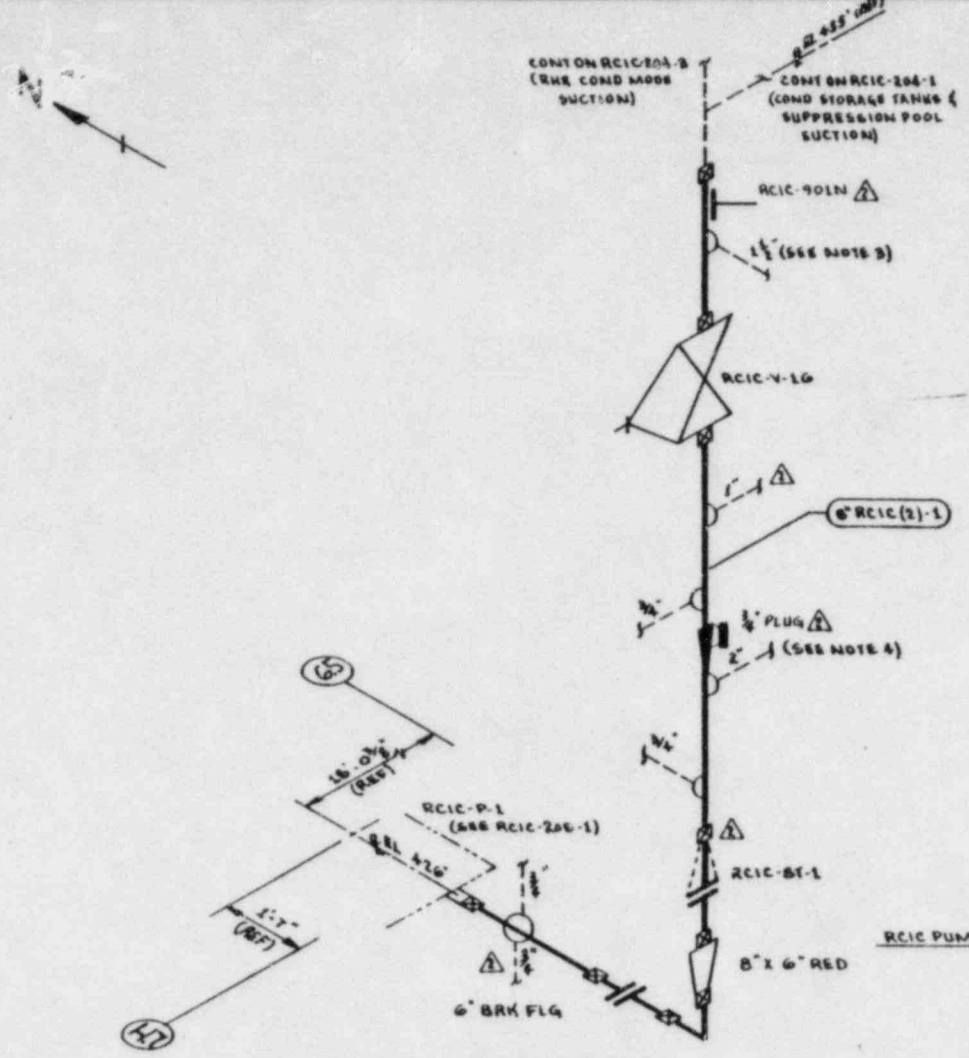
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR Q.A. KUGLER R. | DRAWN: KMc A. | DATE: 7-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR CONDENSING MODE SUPPLY TO RCIC-P-1

DWG NO: RCIC-204-3 | REV 1



ZONE R-11

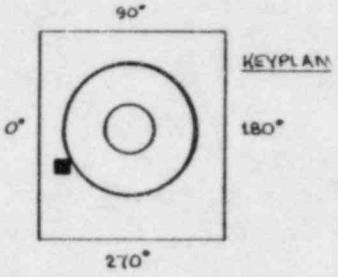
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH VALVE RCIC-V-67 & PUMP RCIC-P-1.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH VALVE RCIC-V-41, VACUUM TANK RCIC-TK-1, PUMP RCIC-P4 & CONNECTING PIPE SHOULD BE EXAMINED FOR LEAKAGE WITH TANK WATER HEAD ONLY.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RCIC-656-6.8 REV 11



QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR G.A. KUGLER	DRAWN K.M.C.A.	DATE 7-28-88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC-P-1 SUCTION

DWG NO: RCIC-204-4 REV 2

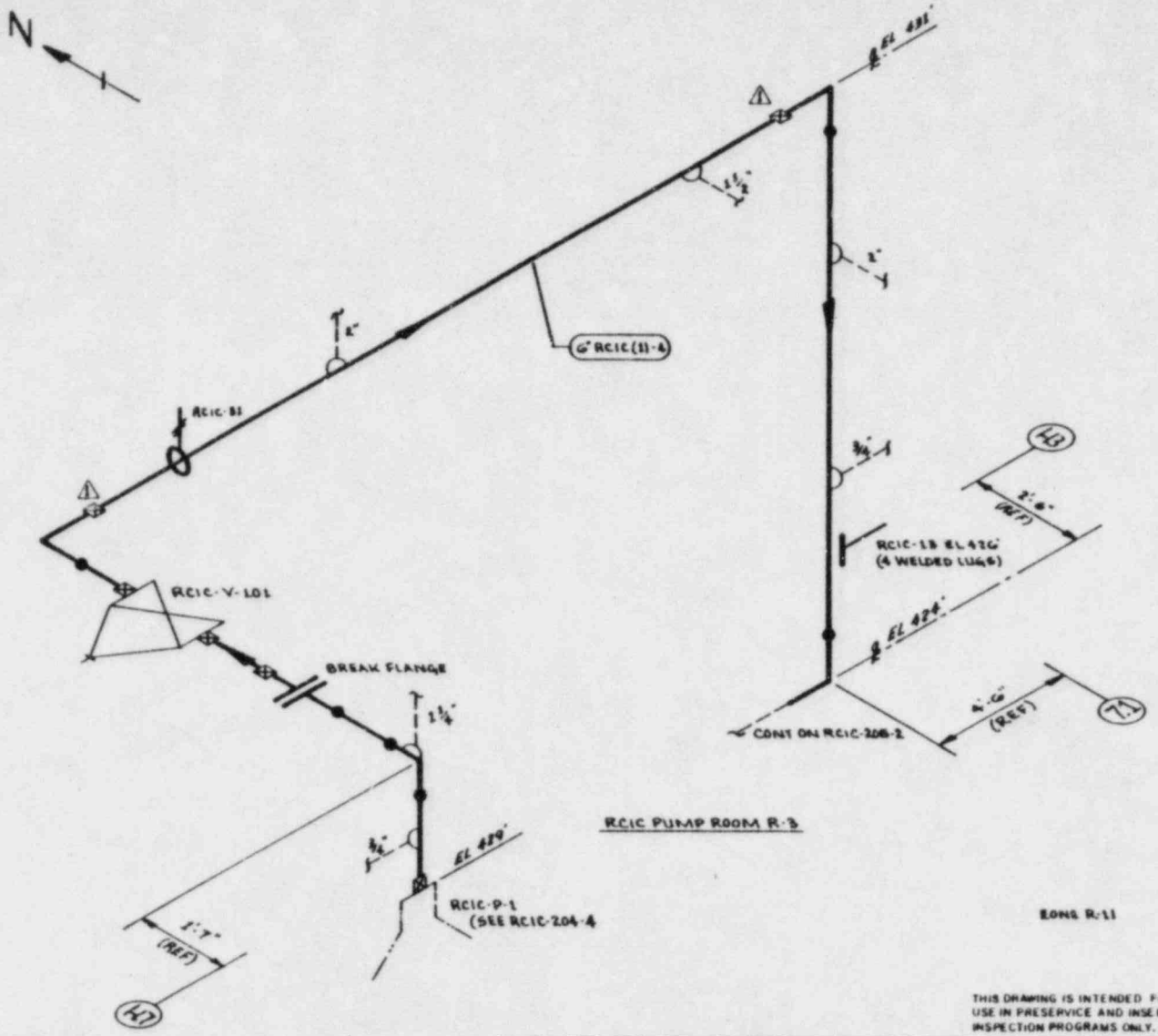
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC (2)-1	8	STD	0.322	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
9	12-7-88	REVISED AS NOTED ADDED KEYPLAN	[illegible]	[illegible]	TFH
1	11-2-88	UPDATED DWG ZN F & G	[illegible]	[illegible]	TFH
0	10-27-88	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	10-3-88	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(10)-1
DESCRIPTION: PUMP SUCTION LINES

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-56	SPRING	IWF	F-X	VT3H				F	
RCIC-47	BOX	IWF	F-X	VT3H				F	
RCIC-927N	ANCHOR	IWF	F-X	VT3H				F	
RCIC-902N	SPRING	IWF	F-X	VT3H				F	
RCIC-903N	STRUT	IWF	F-X	VT3H				F	
RCIC-916N	STRUT	IWF	F-X	VT3H				F	
RCIC-904N	BOX	IWF	F-X	VT3H				F	
RCIC-52	ANCHOR	IWF	F-X	VT3H				F	
RCIC-967N	PSA-1/4 SN(2)	IWF	F-X	VT3H				UVW3	S/N 28460/28427
RCIC-53	SPRING	IWF	F-X	VT3H				F	
RCIC-P-1(CS)	PUMP BASE	IWF	F-X	VT3H				F	
RCIC-P-1S	PMP NOZZLE WELD	C-G	C6.10	SUR				F	
RCIC-901N	STRUT	IWF	F-X	VT3H				F	
RCIC-PB-204(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RCIC-PB-204(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



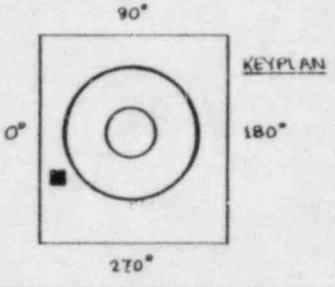
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-669-12 REV 8



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (1)-4	6	120	0.562	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12/85	REVISED AS NOTED ADDED KEYPLAN			
0	11-11-86	ISSUED FOR USE			
A	10-3-86	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS 2

ENGR GA KUGLER | DRAWN K. M. & A. | DATE 8-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

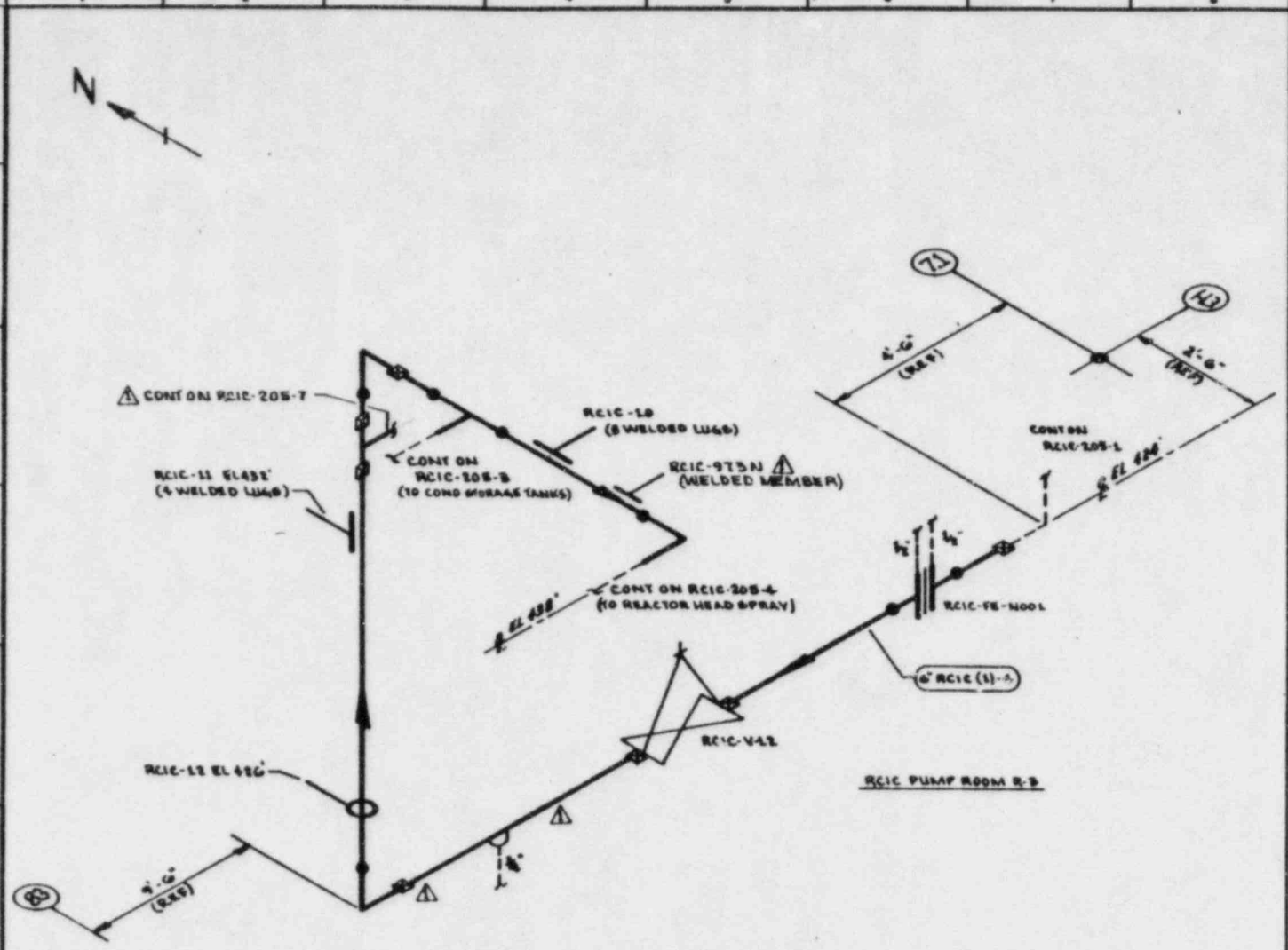
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC-PUMP-1 DISCHARGE

DWG NO: RCIC-205-1 | REV 1



NOTES:

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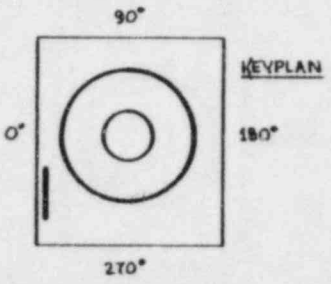
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.

REFERENCES:

BOVER & CRAIL ISOMETRICS

RCIC-689-5.6 REV 10



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (1)-4	6	120	0.562	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-6-83	REVISED AS NOTED ADDED KEYPLAN	KMA	MR	TFH
0	11-27-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
1	10-9-78	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN: K. McA | DATE: 8-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

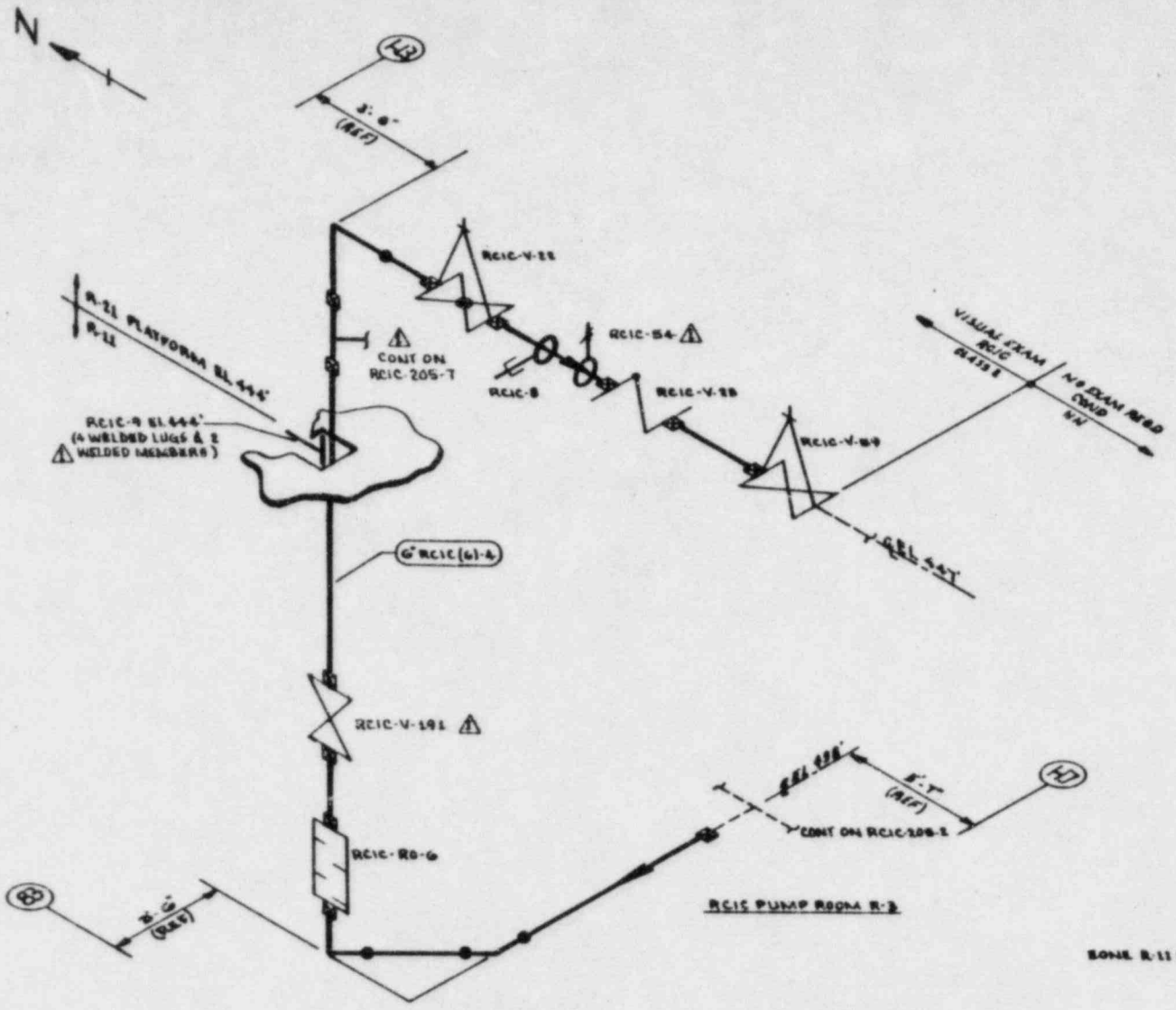
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC-PUMP-1 DISCHARGE LINES

DWG NO: RCIC-205-2 | REV 1



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVER & CRAIL ISOMETRICS

RCIC-642-1.6 REV 11

90°

KEYPLAN

0°

180°

270°

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC(6)-4	6	STD	0.562	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12 7 88	REVISED AS NOTED ADDED KEYPLAN	K.Mc.A	SPE	TFB
0	12.7.88	ISSUED FOR USE	K.Mc.A	[illegible]	[illegible]
A	6.2.88	ISSUED FOR INFORMATION ONLY	K.Mc.A	SPE	QA

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K. Mc.A. | DATE: 6.2.88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

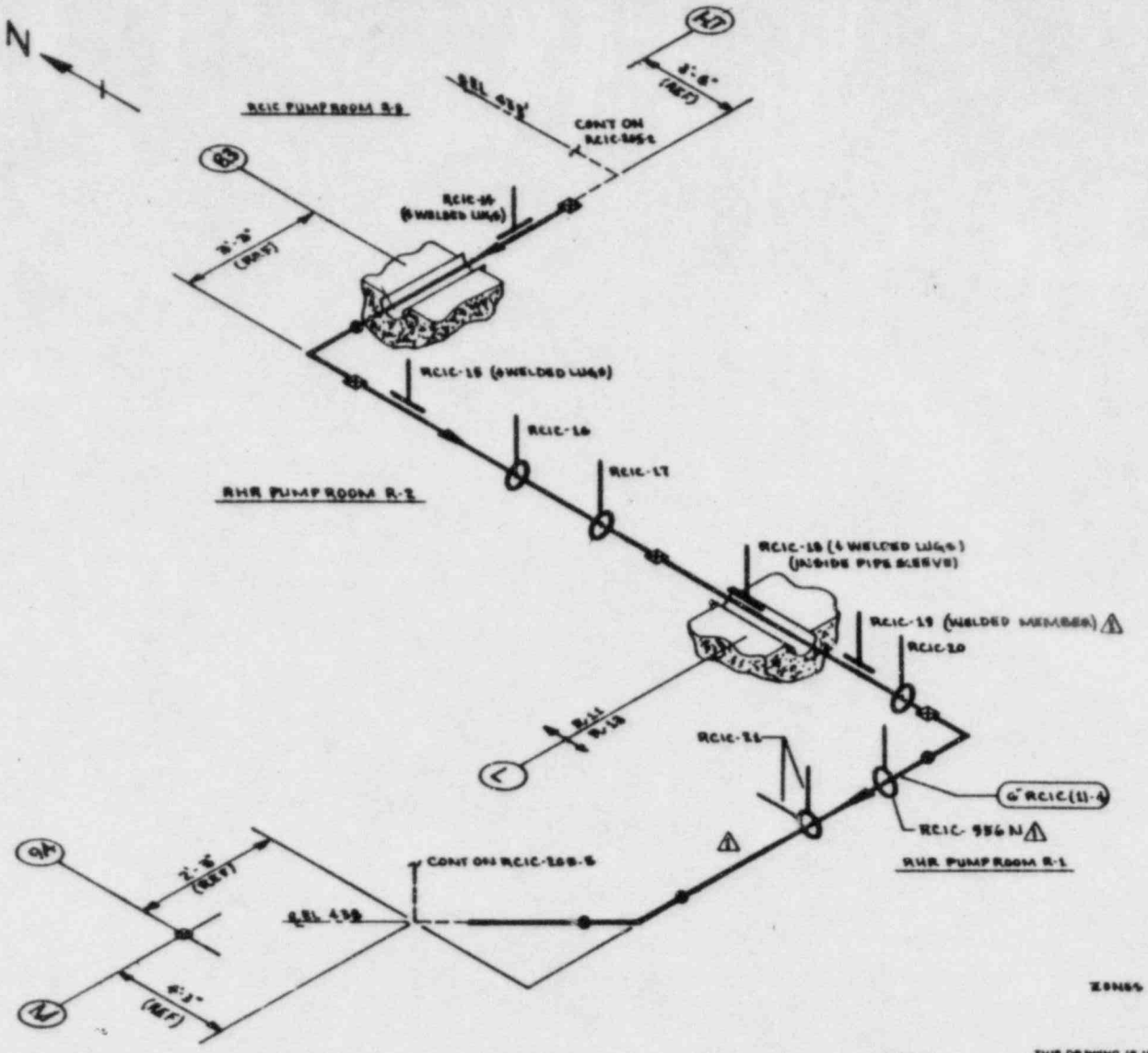
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC SUPPLY TO COND STORAGE TANKS

DWG NO: RCIC-205-3 | REV 1



NOTES:

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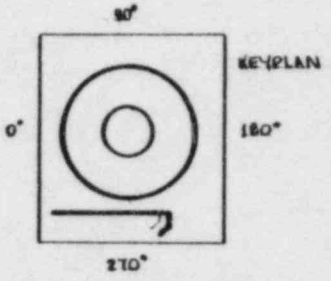
REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-G69-T-10 REV T



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (11-4	6	120	0.562	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-7-83	REVISED AS NOTED ADDED KEYPLAN	[illegible]	[illegible]	[illegible]
0	11-23-83	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	10-6-83	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. WIGLIESW. | DRAWN: K. McA. | DATE: 8-2-83

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

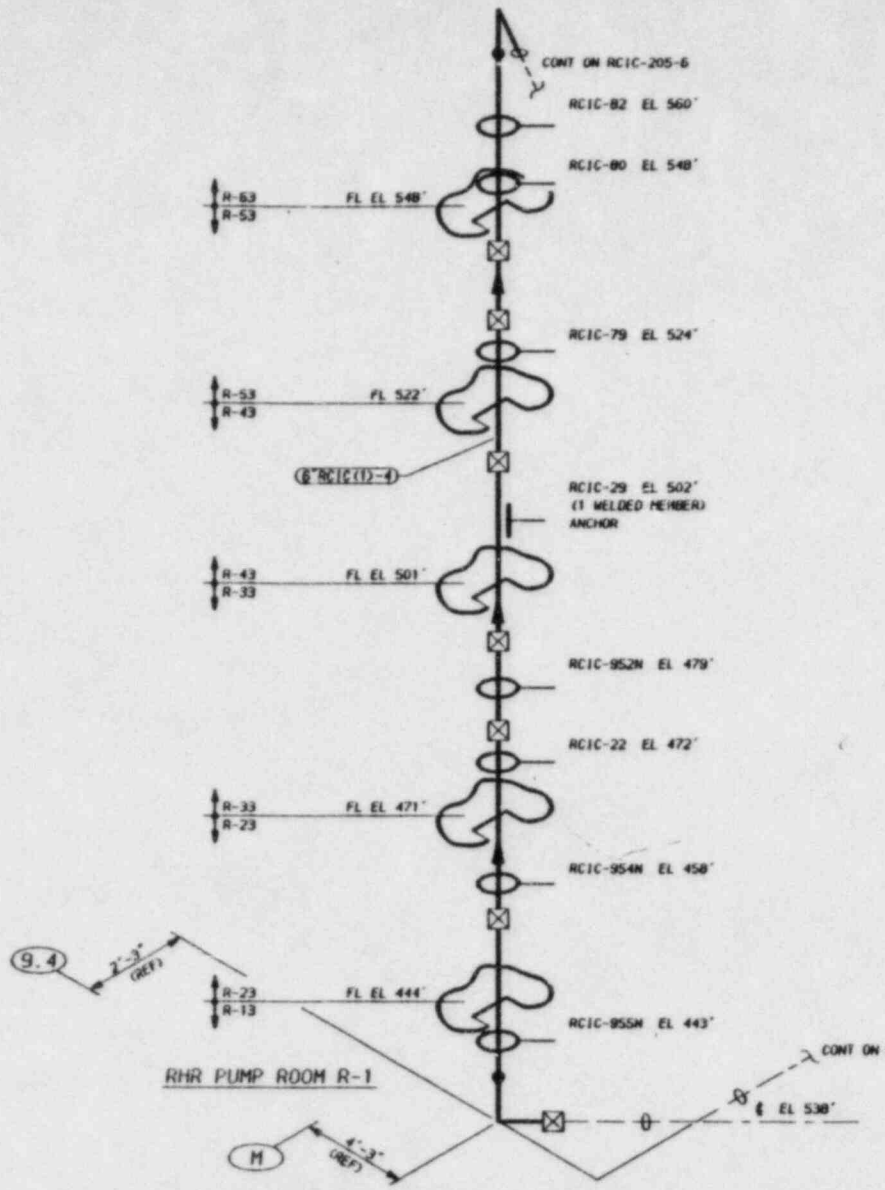
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC SUPPLY TO REACTOR HEAD SPRAY

DWG NO: RCIC-205-4 | REV 1



ZONES R-13, R-23, R-33, R-43, R-53 & R-63

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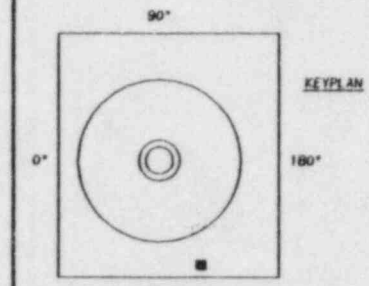
REFERENCES:

151 - 219

BOVEE CRAIL ISIMETRICS
RCIC-659-11.17 REV 6



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR. GA KUGLER	DRAWN. K-McA
DATE. 8-3-78	

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

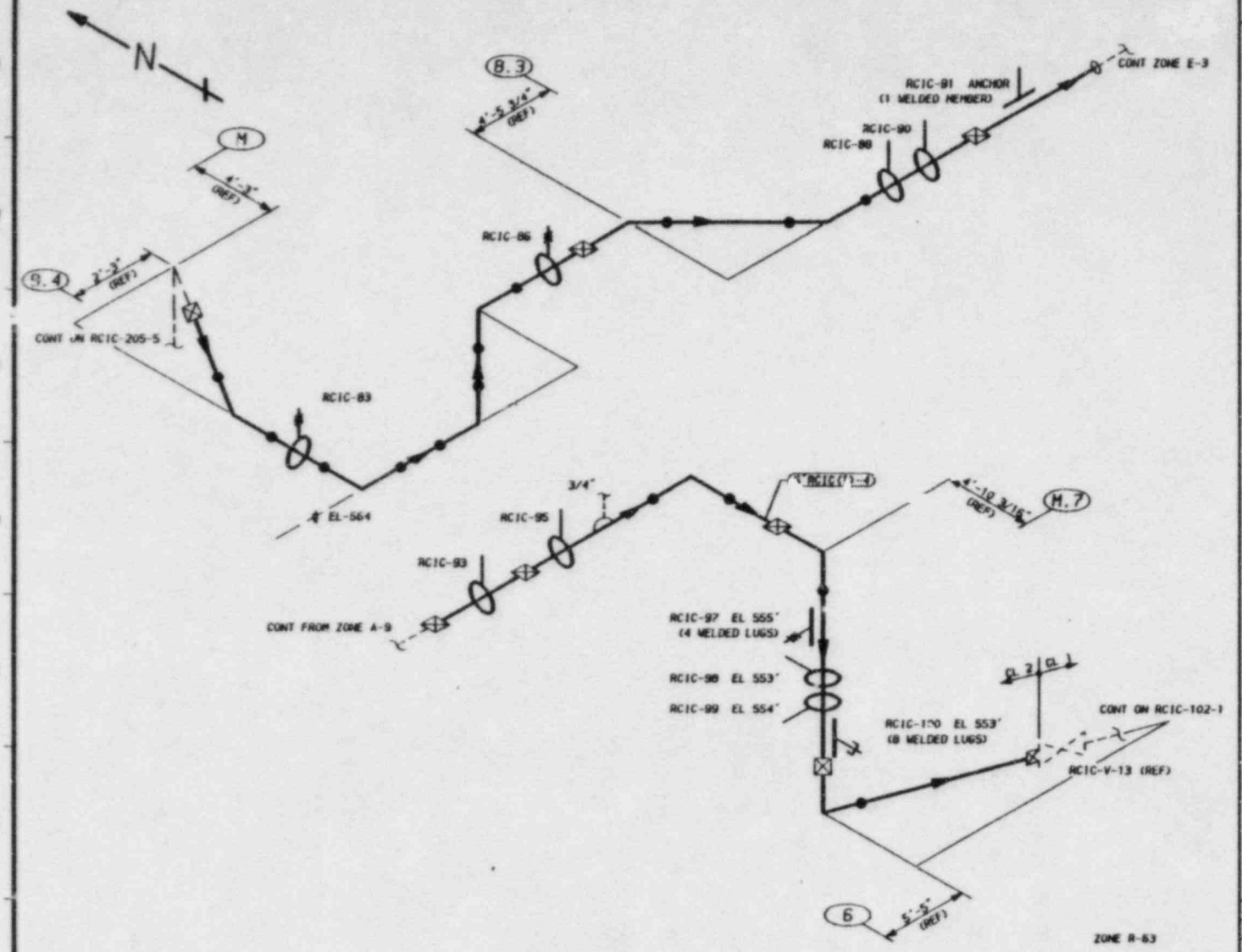
WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE.
RCIC SUPPLY TO REACTOR HEAD SPRAY

DWG NO. RCIC-205-5 REV 1

PIPING SYSTEM	NOM DIA (IND	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RCIC(1)-4	6	120	0.562	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
1	12 8 78	GENERAL UP-DATE REDRAWN	K-McA	DWP TFH DWP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	TFH DWP	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP



NOTES:

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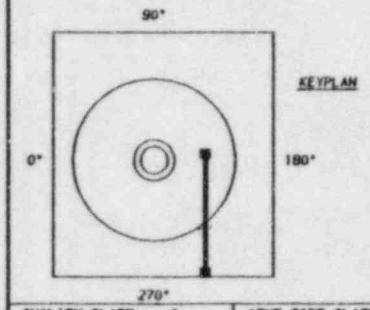
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

ISI - 219

BOVEE CRAIL ISIMETRICS
RCIC-659-18.21 REV 10
RCIC-659-22.23 REV 7



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR. GA KUGLER	DRAWN. K-McA
	DATE: 8-3-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RCIC(1)-4	6	80	0.562	SA 106 GR B	CS	NA

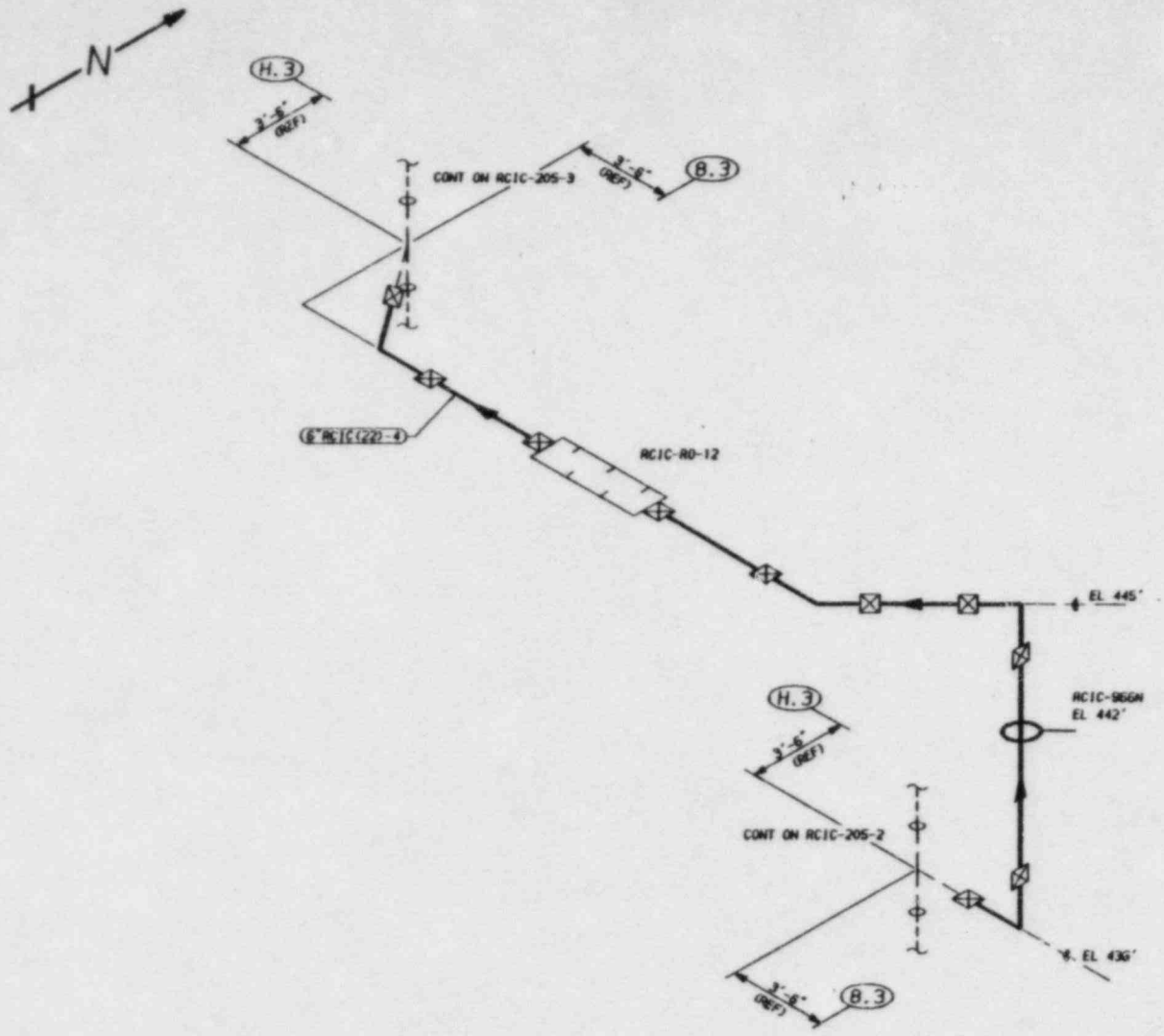
NO	DATE	REVISION	BY	CHKD	APVD
1	12-27-78	GENERAL UPDATE REDRAWN	K-McA	GAK	LFB
0	12-22-78	ISSUED FOR USE	K-McA	GAK	DMP
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RCIC SUPPLY TO REACTOR HEAD SPRAY

DWG NO. RCIC-205-6 REV 1



ZONE R-11

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

NOTES:

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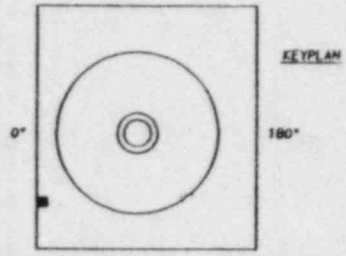
REFERENCES:

ISI - 219

BOVEE CRAIL ISIMETRICS
RCIC-659-3.6 REV 10
RCIC-642-1.5 REV 11

KEYPLAN



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: K-McANDREW	DRAWN: K-McA
DATE: 10-12-83	

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RCIC(22)-4	6	120	0.562	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
0	12/6/84	ISSUED FOR USE	[illegible]	[illegible]	[illegible]

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RCIC-RO-12 BY-PASS LINE

DWG NO. RCIC-205-7 REV 0

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RCIC PUMP DISCHARGE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-F-1D	PNF NOZZLE WELD	C-G	C6.10	SUR				F	
RCIC-13	BOX	IWF	F-X	VT3H				F	
RCIC-71	SPRING	IWF	F-X	VT3H				F	
RCIC-12	BOX	IWF	F-X	VT3H				F	
RCIC-11	BOX	IWF	F-X	VT3H				F	
RCIC-10	STRUT	IWF	F-X	VT3H				F	
RCIC-973N	STRUT	IWF	F-X	VT3H				F	
RCIC-9	BOX	IWF	F-X	VT3H				F	
RCIC-8	STRUT	IWF	F-X	VT3H				F	
RCIC-54	SPRING	IWF	F-X	VT3H				F	
RCIC-14	BOX	IWF	F-X	VT3H				F	
RCIC-15	BOX	IWF	F-X	VT3H				F	
RCIC-16	BOX	IWF	F-X	VT3H				F	
RCIC-17	BOX	IWF	F-X	VT3H				F	
RCIC-18	RIGID	IWF	F-X	VT3H				F	
RCIC-19	BOX	IWF	F-X	VT3H				F	

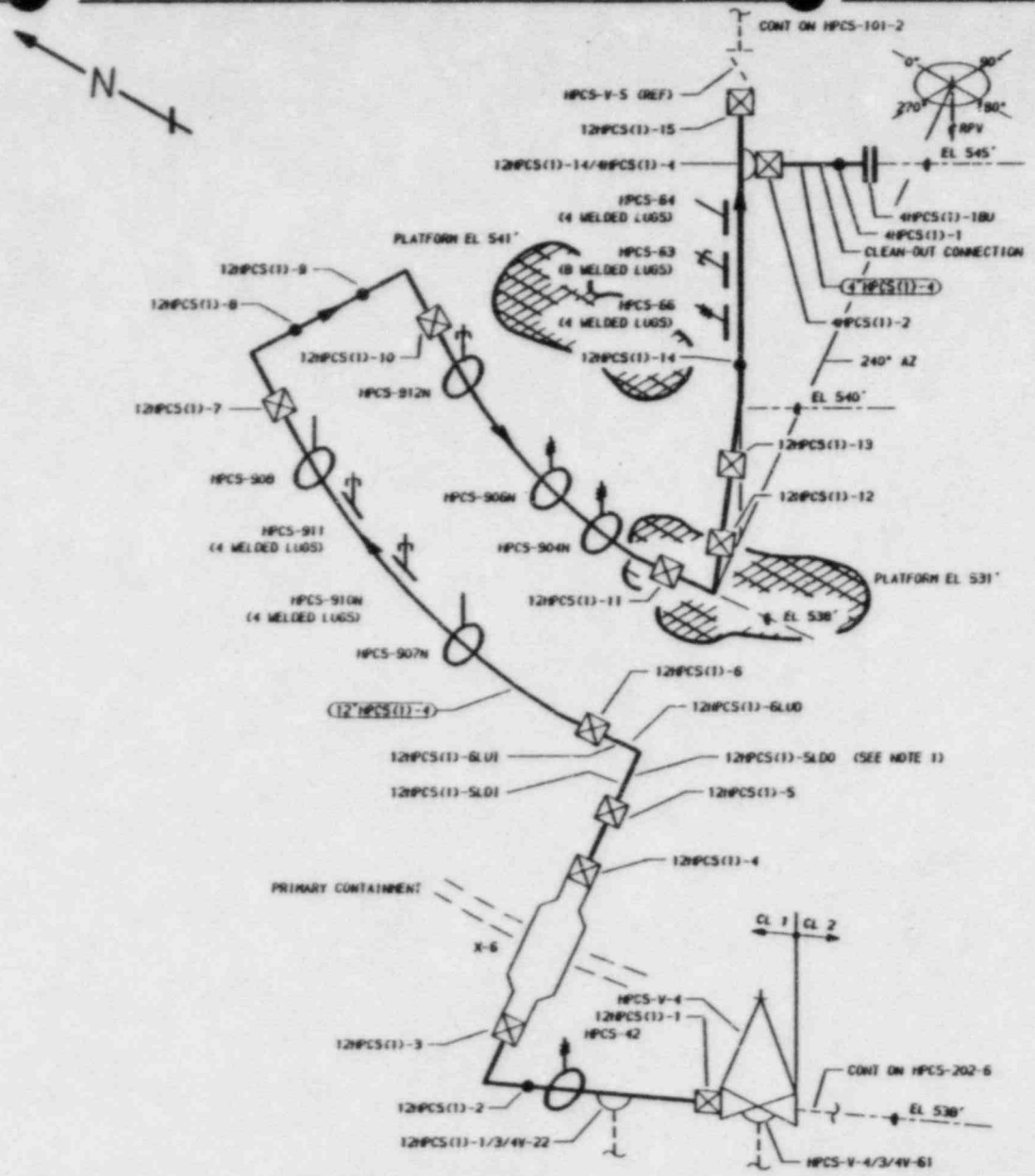
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RCIC PUMP DISCHARGE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-26	BOX	IWF	F-X	VT3H				F	
RCIC-956N	STRUT	IWF	F-X	VT3H				F	
RCIC-21	STRUT	IWF	F-X	VT3H				F	
RCIC-955N	BOX	IWF	F-X	VT3H				F	
RCIC-954N	BOX	IWF	F-X	VT3H				F	
RCIC-22	BOX	IWF	F-X	VT3H				F	
RCIC-952N	BOX	IWF	F-X	VT3H				F	
RCIC-29	ANCHOR	IWF	F-X	VT3H				F	
RCIC-79	BOX	IWF	F-X	VT3H				F	
RCIC-80	STRUT	IWF	F-X	VT3H				F	
RCIC-82	BOX	IWF	F-X	VT3H				F	
RCIC-83	SPRING	IWF	F-X	VT3H				F	
RCIC-86	SPRING	IWF	F-X	VT3H				F	
RCIC-88	BOX	IWF	F-X	VT3H				F	
RCIC-90	STRUT	IWF	F-X	VT3H				F	
RCIC-91	ANCHOR	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RCIC-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RCIC PUMP DISCHARGE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RCIC-93	BOX	IWF	F-X	VT3H				F	
RCIC-95	BOX	IWF	F-X	VT3H				F	
RCIC-97	SPRING	IWF	F-X	VT3H				F	
RCIC-98	STRUT	IWF	F-X	VT3H				F	
RCIC-99	STRUT	IWF	F-X	VT3H				F	
RCIC-100	PSA-1/2 SN(2)	IWF	F-X	VT3H				UVW3	
RCIC-966N	STRUT	IWF	F-X	VT3H				F	
RCIC-PB-205(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RCIC-PB-205(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



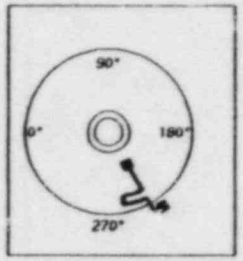
NOTES

1. PIPING SYSTEM 12"HPCS(1)-4 IS CONSTRUCTED OF SEAMLESS SCH 80 PIPE AND FITTINGS EXCEPT FOR THE SR ELL ASSOCIATED WITH WELDS 12HPCS(1)-5 & 6 WHICH IS WELDED SCH 100. USE THE CAL BLOCKS SHOWN BELOW ACCORDINGLY.

REFERENCES:

151 - 220

BOVEE AND CRAIL ISOMETRICS
HPCS-630-26.28 REV 8
HPCS-630-29-30 REV 7



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"HPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
12"HPCS(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
4"HPCS(1)-4	4	80	0.337	SA 106 GR B	CS	UT-30
LUGS	N/A	N/A	N/A	SA 515 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APVD
2	5-24-83	ADDED SUPPORTS/RESTRAINTS, ADDED LUGS & UT-46, DELETED 3/4HLOC ORDERING	K-McA	DPR	TFH
1	12-2-81	CORRECTED VALVE TAG NO. ZN A-4	K-McA	DPR	TFH
0	11-27-78	ISSUED FOR USE (REDRAWN)	K-McA	DWP	LFB
A	11-28-77	ISSUED FOR INFORMATION ONLY	K-McA	DWP	DWP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

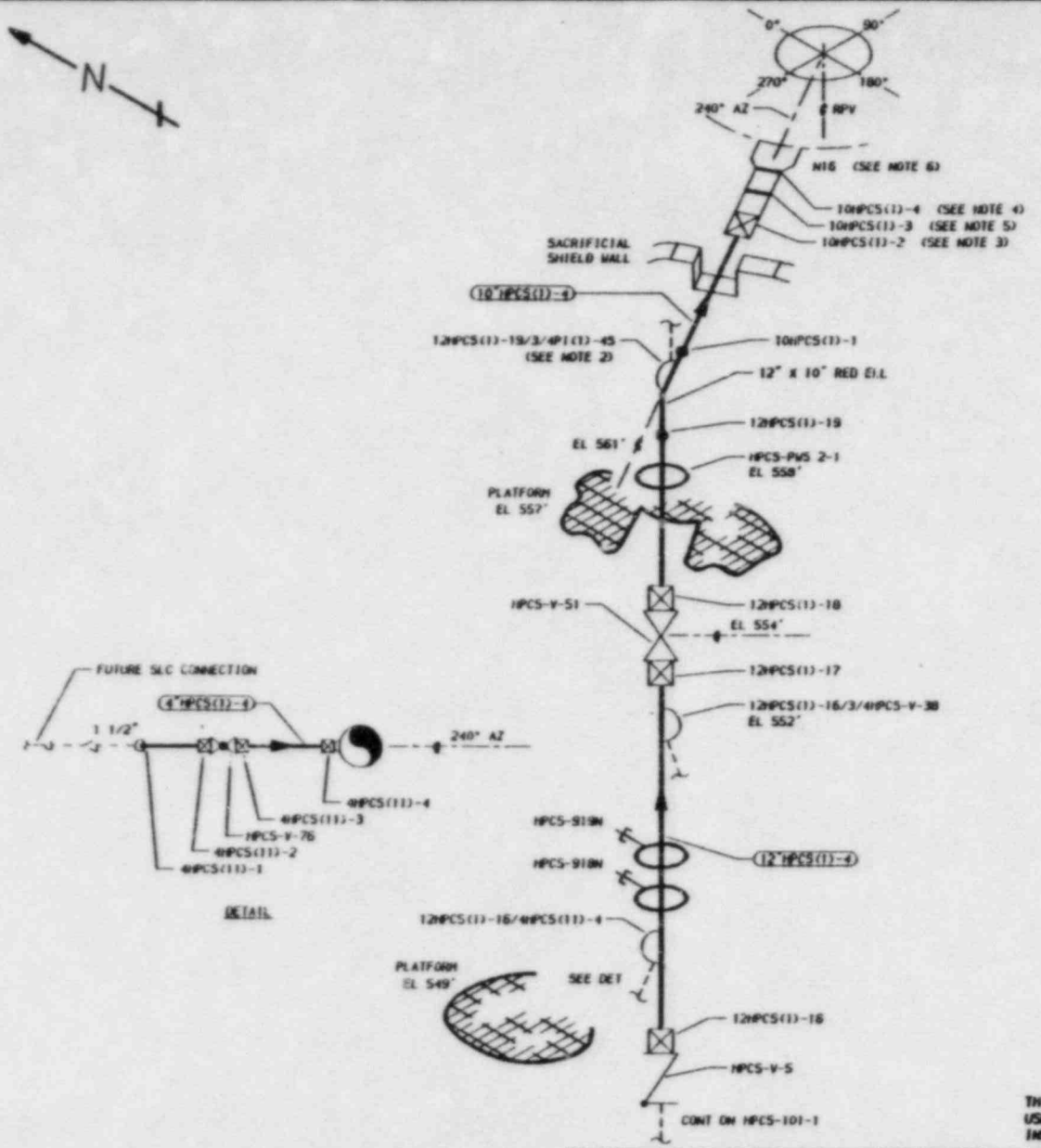
ENGR: GA KUGLER | DRAWN: K-McA | DATE: 2-11-83

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS DISCHARGE TO VESSEL

DWG NO. HPCS-101-1 | REV 2



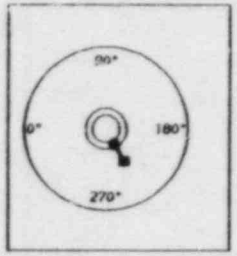
NOTES

1. DELETED
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-73a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. DISTANCE BETWEEN WELDS 10"HPCS(1)-2 AND 10"HPCS(1)-3 IS LESS THAN 6".
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-102.
5. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-106.
6. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-109.

REFERENCES:

151 - 220

BOVEE AND CRAIL ISOMETRICS
HPCS-630-29-30 REV 7
HPCS-530-31.33 REV 9



KEYPLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APVD
4	5-24-83	ADDED SHIMMERS BTWN E'BOW, REMOVED 3/4 LOC, ADDED 4"HPCS(11)-4, ADDED UT-30 (REDRAWN	K-McA	DMP	TFH
3	12-2-81	REVISED AS NOTED	K-McA	DMP	TFH
2	7-17-79	DELETED NOTE 1 AND REF TO WELDS IN REDUCING ELBOW, AS BUILT ELBOW IS SEAMLESS. 2W C-S	K-McA	TFH DMP	LFB
1	1-10-79	REVISED REFERENCE TO NOTES 4 AND 5	K-McA	TFH DMP	DMP LFB
0	11-27-78	ISSUED FOR USE (REDRAWN)	K-McA	DMP	LFB
A	11-28-77	ISSUED FOR INFORMATION ONLY	K-McA	DMP GAK	DMP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"HPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
10"HPCS(1)-4	10	80	0.594	SA 106 GR B	CS	UT-22
4"HPCS(1)-4	4	80	0.377	SA 106 GR B	CS	UT-30

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: GA KUEHLER	DRAWN: K-McA
DATE: 11-2-77	

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS DISCHARGE TO VESSEL

DWG NO. HPCS-101-2 REV 4

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-101

SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-V-4-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
HPCS-V-4-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12HPCS(1)-1									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
HPCS-42									
	SPRING	IWF	F-X	VT3H				F	
12HPCS(1)-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
12HPCS(1)-3									
	EL TO PEN	B-J	B9.11	VOL	UT-17			FS6	FITTING TO FITTING
			B9.11	SUR				FS6	
12HPCS(1)-4									
	PEN TO PIPE	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
12HPCS(1)-5									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-5LDO									
	EL SEAM	B-J	B9.12	VOL	UT-16			9	
			B9.12	SUR				9	
12HPCS(1)-5LDI									
	EL SEAM	B-J	B9.12	VOL	UT-16			9	
			B9.12	SUR				9	
12HPCS(1)-6LUO									
	EL SEAM	B-J	B9.12	VOL	UT-16			9	
			B9.12	SUR				9	
12HPCS(1)-6LUI									
	EL SEAM	B-J	B9.12	VOL	UT-16			9	
			B9.12	SUR				9	

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12HPCS(1)-6									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
HPCS-907N									
	STRUT	IWF	F-X	VT3H				F	
HPCS-910N(W)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	
HPCS-910N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 2579/2691
HPCS-911N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N
HPCS-908N									
	STRUT	IWF	F-X	VT3H				F	
12HPCS(1)-7									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-8									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-9									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-10									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
HPCS-912N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 2790
HPCS-906N									
	SPRING	IWF	F-X	VT3H				F	
HPCS-904N									
	SPRING	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12HPCS(1)-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-13									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
12HPCS(1)-14									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
HPCS-66(W)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	3/4"Wx1 1/8"Hx3"L.
HPCS-66									
	SPRING	IWF	F-X	VT3H				F	
HPCS-63(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	
HPCS-63									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 1470/1474
HPCS-64(W)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	3/4"W x 2"H x 3"L.
HPCS-64									
	BOX HANGER	IWF	F-X	VT3H				F	
12HPCS(1)-14/4HPCS(1)-4									
	WOL TO PIPE	B-J	B9.32	SUR				FS6	
4HPCS(1)-18D									
	FLANGE BOLTING	B-G-2	B7.50	VT-1				F	
4HPCS(1)-1									
	FLANGE TO PIPE	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
4HPCS(1)-2									
	PIPE TO WOL	B-J	B9.11	VOL	UT-30			F6	
			B9.11	SUR				F6	
12HPCS(1)-15									
	PIPE TO VLV	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
HPCS-V-5-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
HPCS-V-5-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12HPCS(1)-16									
	VLV TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
4HPCS(11)-1									
	CAP TO PIPE	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	
4HPCS(11)-2									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	
4HPCS(11)-3									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	
4HPCS(11)-4									
	PIPE TO WOL	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	
12HPCS(1)-16/4HPCS(11)-4									
	PIPE TO WOL	B-J	B9.32	SUR				FS6	
HPCS-918N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 298
HPCS-919N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 300

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

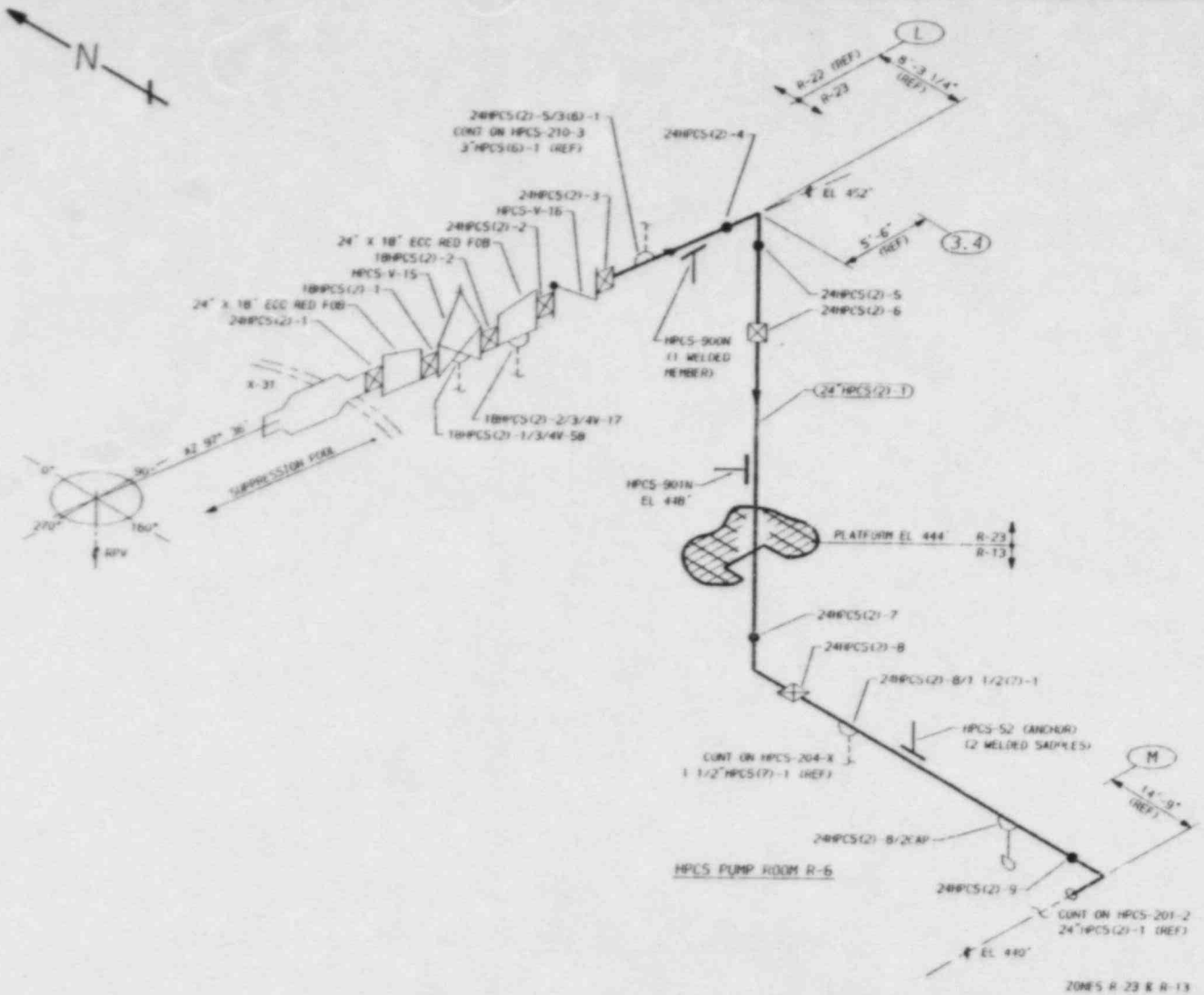
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12HPCS(1)-17									
	PIPE TO VLV	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
HPCS-V-51-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
HPCS-V-51-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12HPCS(1)-18									
	VLV TO PIPE	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
PBS-2-1									
	B&R WHIP SUP	N/A	N/A	N/A				O	SEE NOTE #1
12HPCS(1)-19									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			FS6	
			B9.11	SUR				FS6	
10HPCS(1)-1									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			FS6	
			B9.11	SUR				FS6	
10HPCS(1)-2									
	PIPE TO SE EXT	B-J	B9.11	VOL	UT-22			07	SEE RPV-109, NOZZLE N16
			B9.11	SUR				07	
10HPCS(1)-3									
	SE EXT TO SE	B-F	B5.10	VOL	UT-106			F	SEE RPV-105, NOZZLE N16
			B5.10	SUR				F	
10HPCS(1)-4									
	SE TO NOZZLE	B-F	B5.10	VOL	UT-102			F	SEE RPV-105, NOZZLE N16
			B5.10	SUR				F	
HPCS-PB-101(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-101

SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-PB-101(H)	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



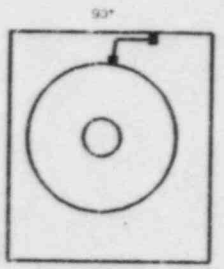
ZONES R-23 & R-13

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

REFERENCES:

ISI - 220-1

BOWEE & CRAIL ISOMETRIC
MPSC-629-1,4 REV 8



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24"HPCS(2)-1	24	STD	0.375	SA 106 GR B	CS	LATER
18"HPCS(2)-1	18	STD	0.375	SA 106 GR B	CS	LATER

NO	DATE	REVISION	BY	CHKD	APVD
2	[illegible]	REVISED FOR ISI	[illegible]	TFH	LFB
1	5-24-83	ADDED HPCS-900N & 901N, DELETED HPCS-50, 51, 54, 55 & 56 ADDED FIELD WELD, ADDED 2" SOL (REDRAWN)	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

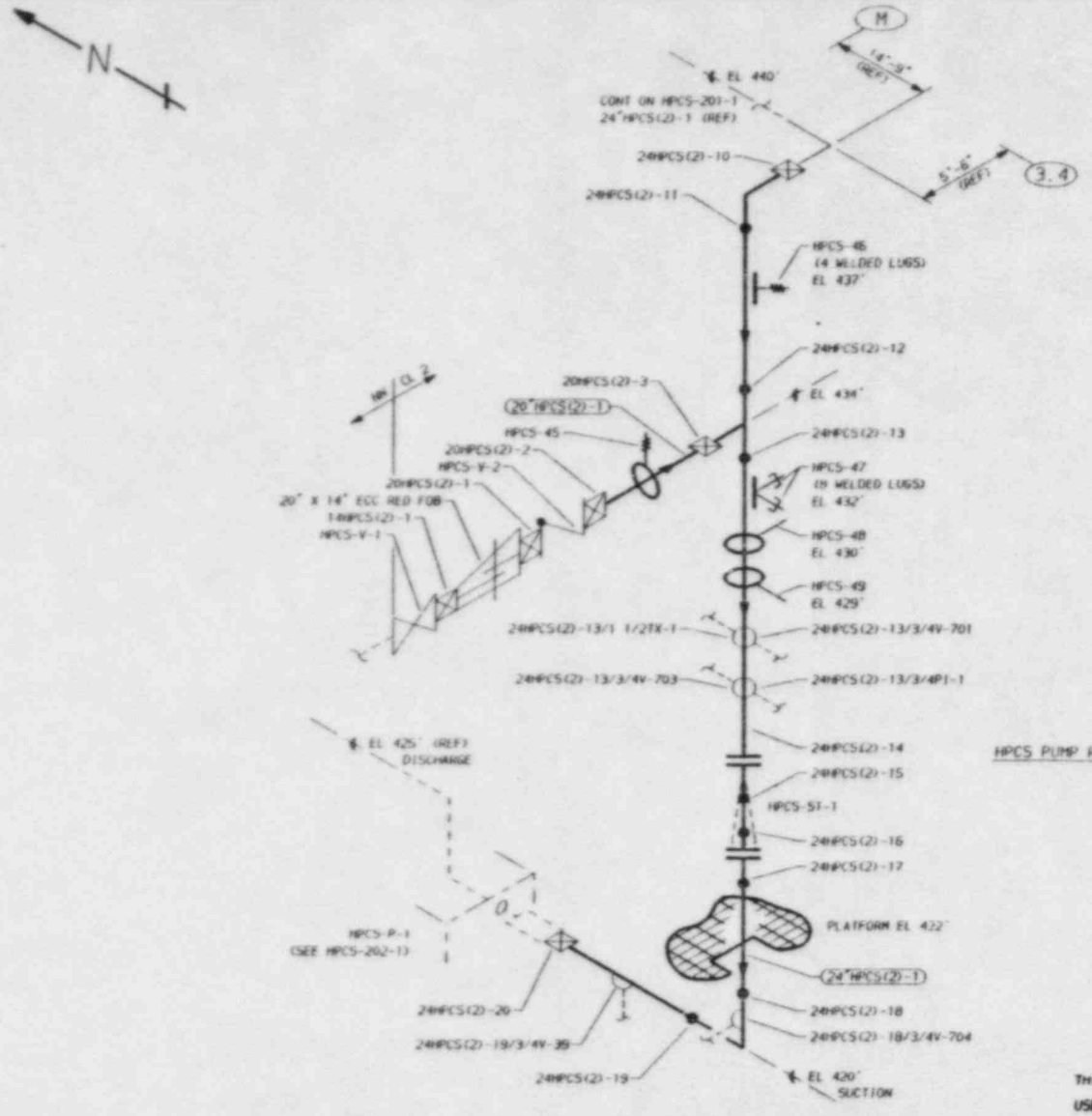
ENGR: GA KUGLER | DRAWN: K-McA | DATE: 8-4-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
HPCS PUMP SUPPRESSION POOL SUCTION LINE

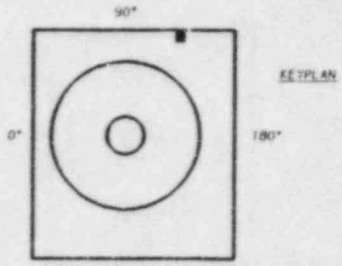
DWG NO: HPCS-201-1 | REV 2



REFERENCES:

1SI - 220-1

BOVEE & CRAIL ISOMETRIC
HPCS-629-S.7 REV.10



QUALITY CLASS: 1			ASME CODE CLASS: 2								
ENGR: GA KUGLER			DRAWN: K-McA			DATE: 8-9-78					

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
HPCS PUMP SUPPRSSION POOL SUCTION LINE

DWG NO: HPCS-201-2 REV 2

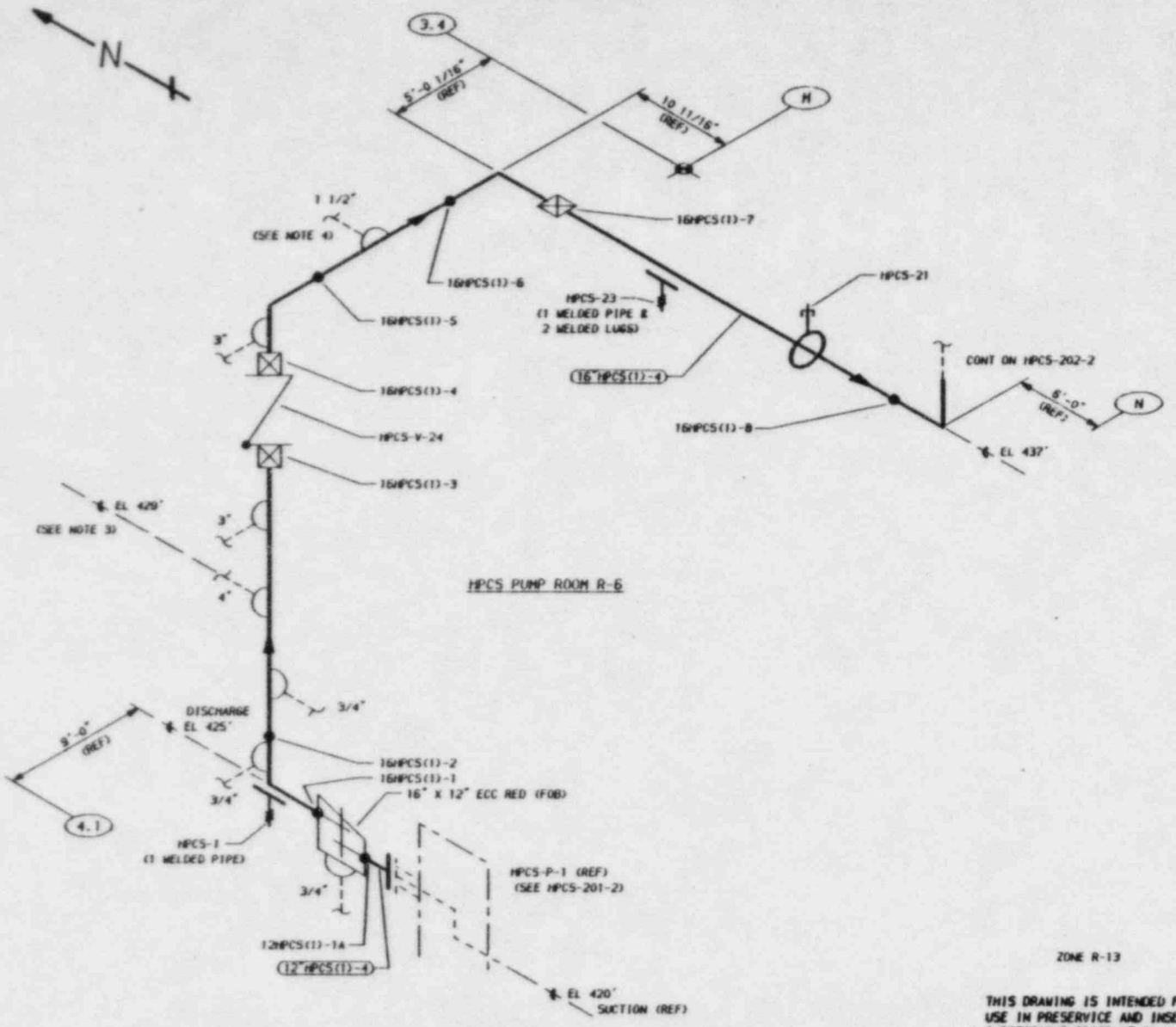
NO	DATE	REVISION	BY	CHKD	APVD
2	4/14/84	ISSUED FOR ISI	[illegible]	[illegible]	[illegible]
1	5-24-83	ADDED 3/4" SOL, HPCS-48 NOW RIGID, (REDRAWN)	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH / DMP	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

PIPING SYSTEM	NOM DIA (IND	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24"HPCS(2)-1	24	STD	0.375	SA 106 GR B	CS	LATER
20"HPCS(2)-1	20	STD	0.375	SA 106 GR B	CS	LATER
14"HPCS(2)-1	14	STD	0.375	SA 106 GR B	CS	LATER

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(2)-1
DESCRIPTION: HPCS-P-1 SUCTION

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-900N	STRUT	IWF	F-X	VT3H				F	
HPCS-901N	BOX	IWF	F-X	VT3H				F	
HPCS-52	ANCHOR	IWF	F-X	VT3H				F	
HPCS-46	SPRING	IWF	F-X	VT3H				F	
HPCS-45	SPRING	IWF	F-X	VT3H				F	
HPCS-47	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 470/485
HPCS-P-1(CS)	PUMP BASE	IWF	F-X	VT3H				F	
HPCS-48	STRUT	IWF	F-X	VT3H				F	
HPCS-49	STRUT	IWF	F-X	VT3H				F	
HPCS-PB-201(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
HPCS-PB-201(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



ZONE R-13

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

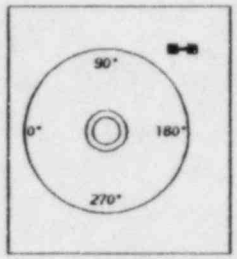
NOTES:

1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH VALVES HPCS-V-53, HPCS-V-62 AND HPCS-V-63.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH PUMP HPCS-P-3.

REFERENCES:

151 - 220

BOVEE & CRAIL ISOMETRICS
HPCS-630-1.4 REV 12
HPCS-630-7.10 REV 8



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"HPCS(1)-4	16	100	1.031	SA 106 GR B	CS	UT-15
12"HPCS(1)-4	12	100	0.844	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
1	6-24-83	NUMBERED 16" WELDS, DELETED HPCS-7 & 22 ADDED UT-15 DIAGRAMS	K-McA	MMR DMP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	GAK	DWP
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

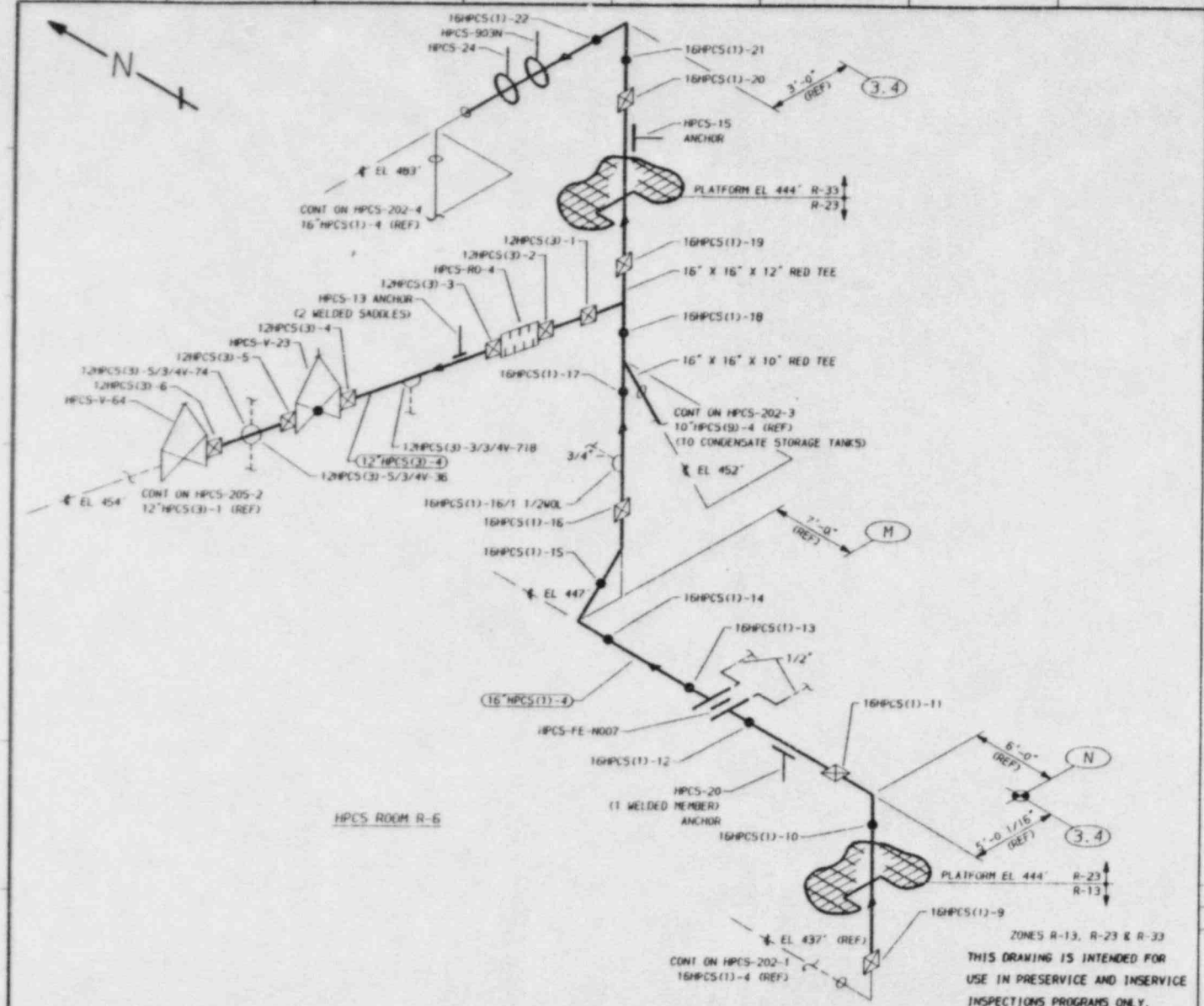
ENGR: GA KUSLER | DRAWN: K-McA | DATE: 8-9-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS-PUMP-1 DISCHARGE

DWG NO: HPCS-202-1 | REV 1



ZONES R-13, R-23 & R-33

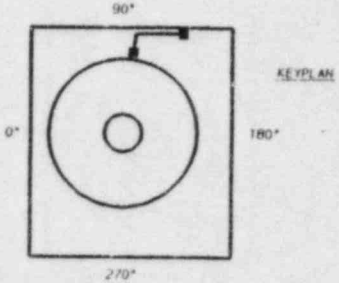
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

REFERENCES:

ISI - 220-1

BOVEE & CRAIL ISOMETRICS

HPCS-630-7,10	REV 9
HPCS-630-11,12	REV 10
HPCS-630-13,19	REV 8
HPCS-632-1,3	REV 12



KEYPLAN

NO	DATE	REVISION	BY	CHKD	APVD
2	4-28-83	ISSUED FOR ISI	[illegible]	[illegible]	[illegible]
1	5-24-83	NUMBERED WELDS, ADDED RD-4, DELETED HPCS-19 & 14 ADDED HPCS-903N, RELOCATED HPCS-15 (REDRAWN)	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH / DWP	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"HPCS(1)-4	16	100	1.031	SA 106 GR B	CS	LATER
12"HPCS(3)-4	12	100	0.844	SA 106 GR B	CS	LATER

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: GA KUGLER | DRAWN: K-McA | DATE: 8-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

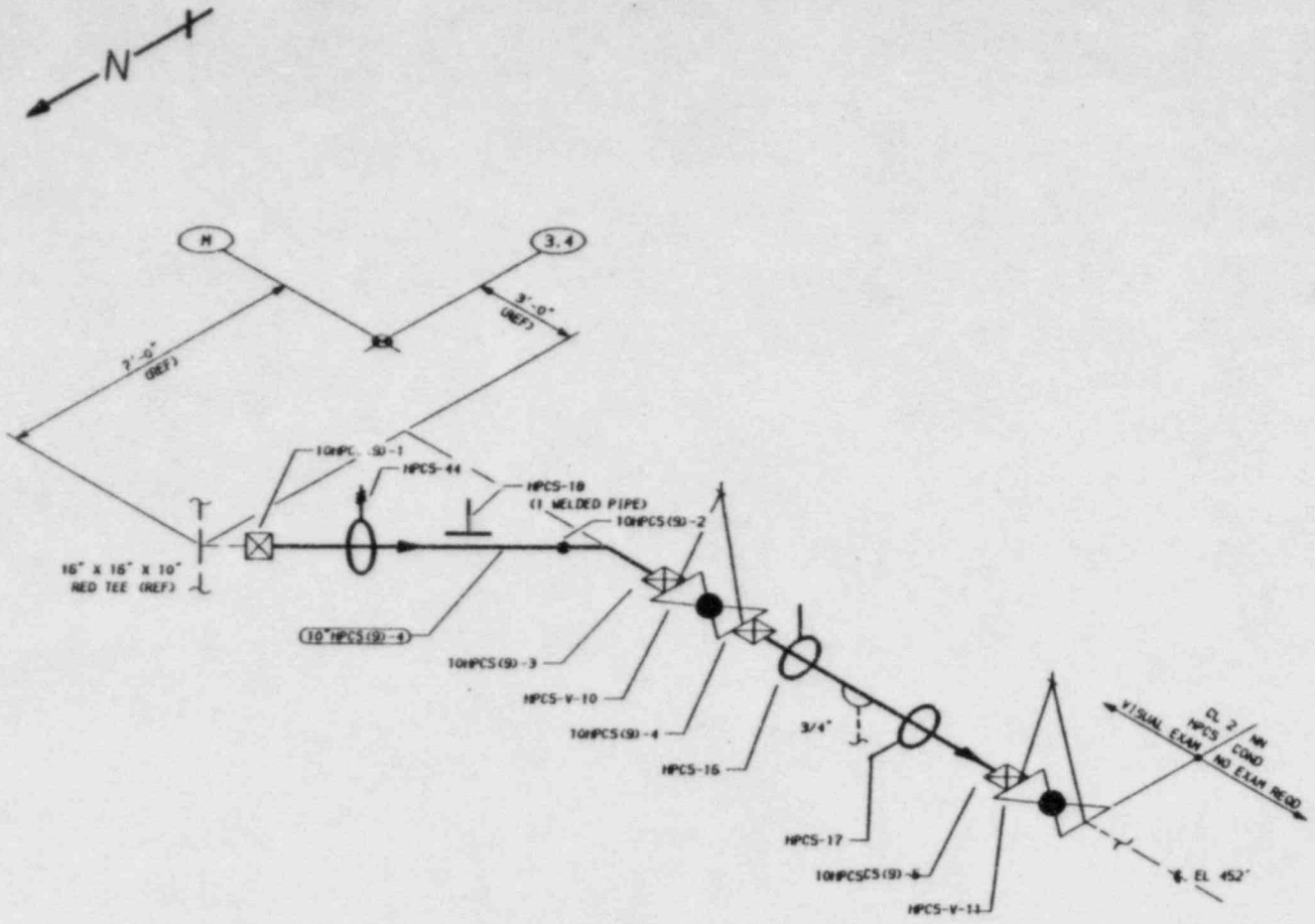
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

HPCS-PUMP-1 DISCHARGE

DWG NO: HPCS-202-2 | REV 2



R-23

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

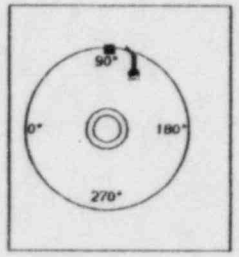
NOTES:

1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

151 - 220

BOVEE & CRAIL ISOMETRICS
HPCS-633-1.2 REV 8



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10"HPCS(9)-4	10	100	0.719	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
1	6-28-83	NUMBERED WELDS, HPCS-17, 18 RIGID, (REDRAWN	[illegible]	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	K-McA	GAK	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

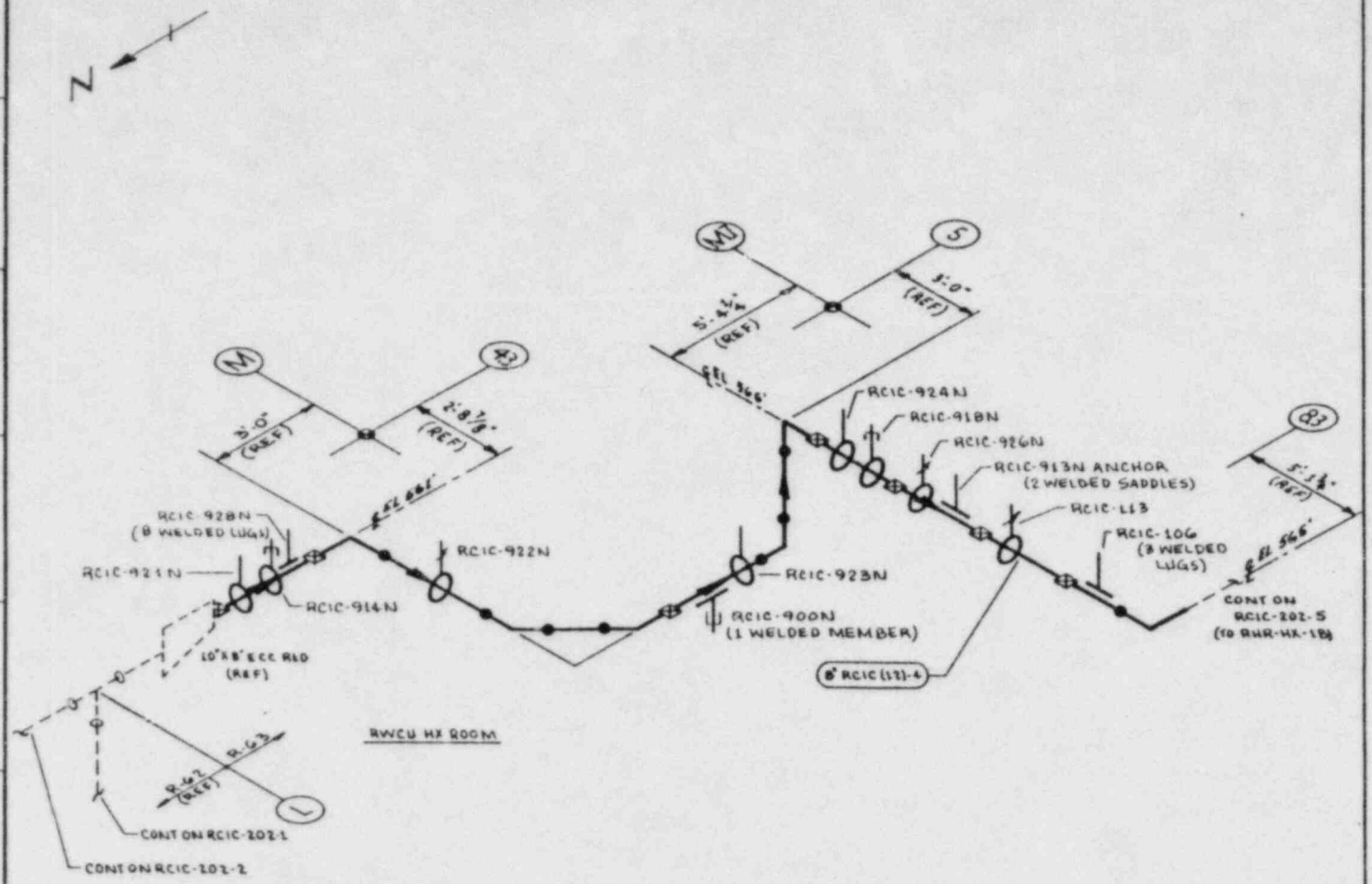
ENGR. GA KUGLER | DRAWN. K-McA | DATE: 8-11-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS SUPPLY TO COND STORAGE TANKS

DWG NO. HPCS-202-3 | REV 1

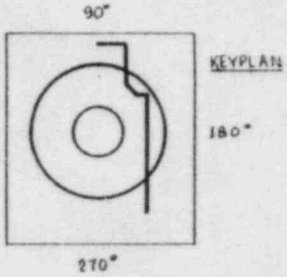


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCED:

BOVEE & CRAIL ISOMETRIC
RCIC-GG4-1.7 REV 8



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC (12)-4	8	100	0.593	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-2-83	ADDED HANGERS & KEYPLAN	K.M.A	[illegible]	[illegible]
0	03-22-78	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	12-5-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

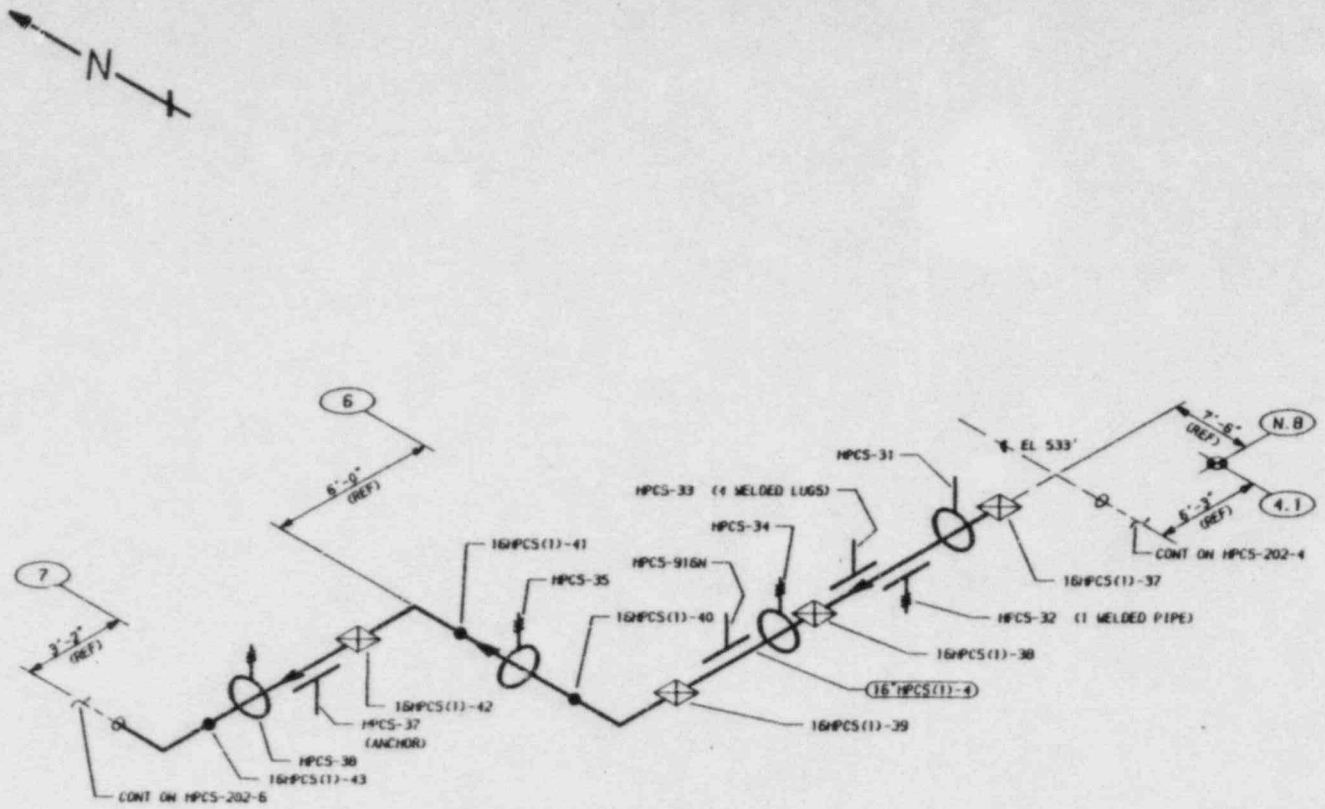
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K. M. A. | DATE: 7-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
CONDENSING MODE
STEAM SUPPLY TO RHR-HX-1B

DWG NO: RCIC-202-4 REV 1



NOTES:

1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. THE FOLLOWING WELD RECEIVES A VOLUMETRIC EXAM. IT REPRESENT 10% OF THE WELDS EXEMPTED BY IWC-1220(C).

16"HPCS(1)-37

REFERENCES:

ISI - 220

BOVEE & CRAIL ISOMETRIC
HPCS-630-20.23 REV 4

KEYPLAN

ZONE R-53

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"HPCS(1)-4	16	100	1.031	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APVD
1	5-24-83	NUMBERED WELDS, HPCS-37, 33 MODIFIED, ADDED HPCS-916N, DELETED HPCS-36, ADDED UT-15, ADDED NOTE 2 (REDRAWN)	K-McA	DMP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	GAK	DMP
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

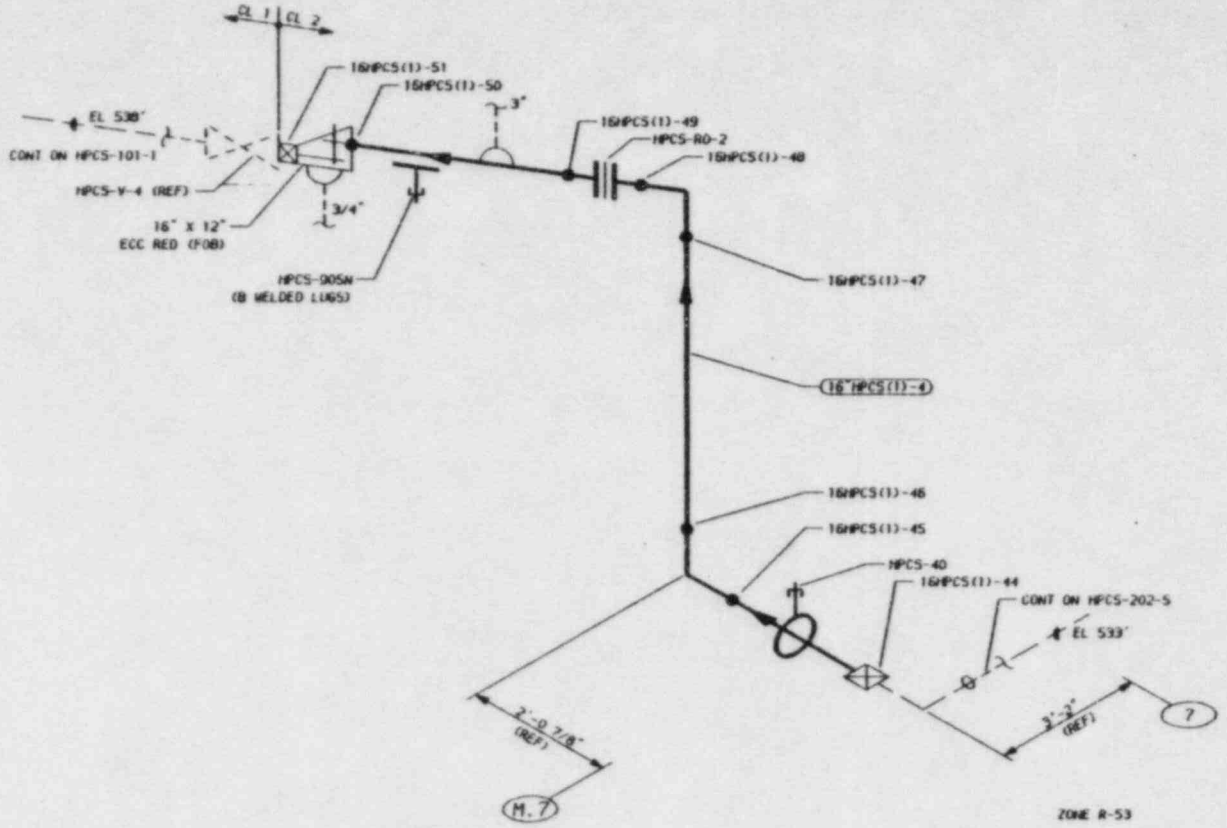
ENGR: GA KUGLER | DRAWN: K-McA | DATE: 8-11-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS-PUMP-1 DISCHARGE

DWG NO. HPCS-202-5 | REV 1



NOTES:

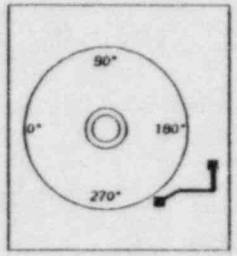
1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE FOLLOWING WELD RECEIVES A VOLUMETRIC EXAM. IT REPRESENT 10% OF THE WELDS EXEMPTED BY IWC-1220(C).

16"HPCS(1)-50

REFERENCES:

151 - 220

BOVEE & CRAIL ISOMETRIC
HPCS-630-24.25 REV 4



KEYPLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K-McA
	DATE: 8-11-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"HPCS(1)-4	16	100	1.031	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APVD
1	5-24-83	NUMBERED WELDS, ADDED HPCS-90SW, UT-15, NOTE 3, DELETED HPCS-41, HPCS-39. (REDRAWN)	K-McA	TPH DMP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	DMP	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DRAWING

TITLE:
HPCS-PUMP-1 DISCHARGE

DWG NO. HPCS-202-6 REV 1

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HPCS-P-1 DISCHARGE

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-1	SPRING	IWF	F-X	VT3H				F	
HPCS-23	SPRING	IWF	F-X	VT3H				F	
HPCS-21	RIGID	IWF	F-X	VT3H				F	
HPCS-20	RIGID	IWF	F-X	VT3H				F	
HPCS-17	STRUT	IWF	F-X	VT3H				F	
HPCS-16	STRUT	IWF	F-X	VT3H				F	
HPCS-18	STRUT	IWF	F-X	VT3H				F	
HPCS-44	SPRING	IWF	F-X	VT3H				F	
HPCS-13	ANCHOR	IWF	F-X	VT3H				F	
HPCS-15	ANCHOR	IWF	F-X	VT3H				F	
HPCS-903M	STRUT	IWF	F-X	VT3H				F	
HPCS-24	STRUT	IWF	F-X	VT3H				F	
HPCS-25	SPRING	IWF	F-X	VT3H				F	
HPCS-26	STRUT	IWF	F-X	VT3H				F	
1EHPCS(1)-27	PIPE TO EL	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HPCS-P-1 DISCHARGE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-27	STRUT	IWF	F-X	VT3H				F	
HPCS-28	BOX	IWF	F-X	VT3H				F	
HPCS-917N	STRUT	IWF	F-X	VT3H				F	
HPCS-915M	STRUT	IWF	F-X	VT3H				F	
16HPCS(1)-31	PIPE TO EL	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	
HPCS-909M	STRUT	IWF	F-X	VT3H				F	
16HPCS(1)-35	EL TO PIPE	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	
16HPCS(1)-36	PIPE TO EL	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	
16HPCS(1)-37	EL TO PIPE	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	
HPCS-31	STRUT	IWF	F-X	VT3H				F	
HPCS-32	SPRING	IWF	F-X	VT3H				F	
HPCS-33	BOX	IWF	F-X	VT3H				F	
HPCS-34	SPRING	IWF	F-X	VT3H				F	
HPCS-916N	BOX	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HPCS-P-1 DISCHARGE

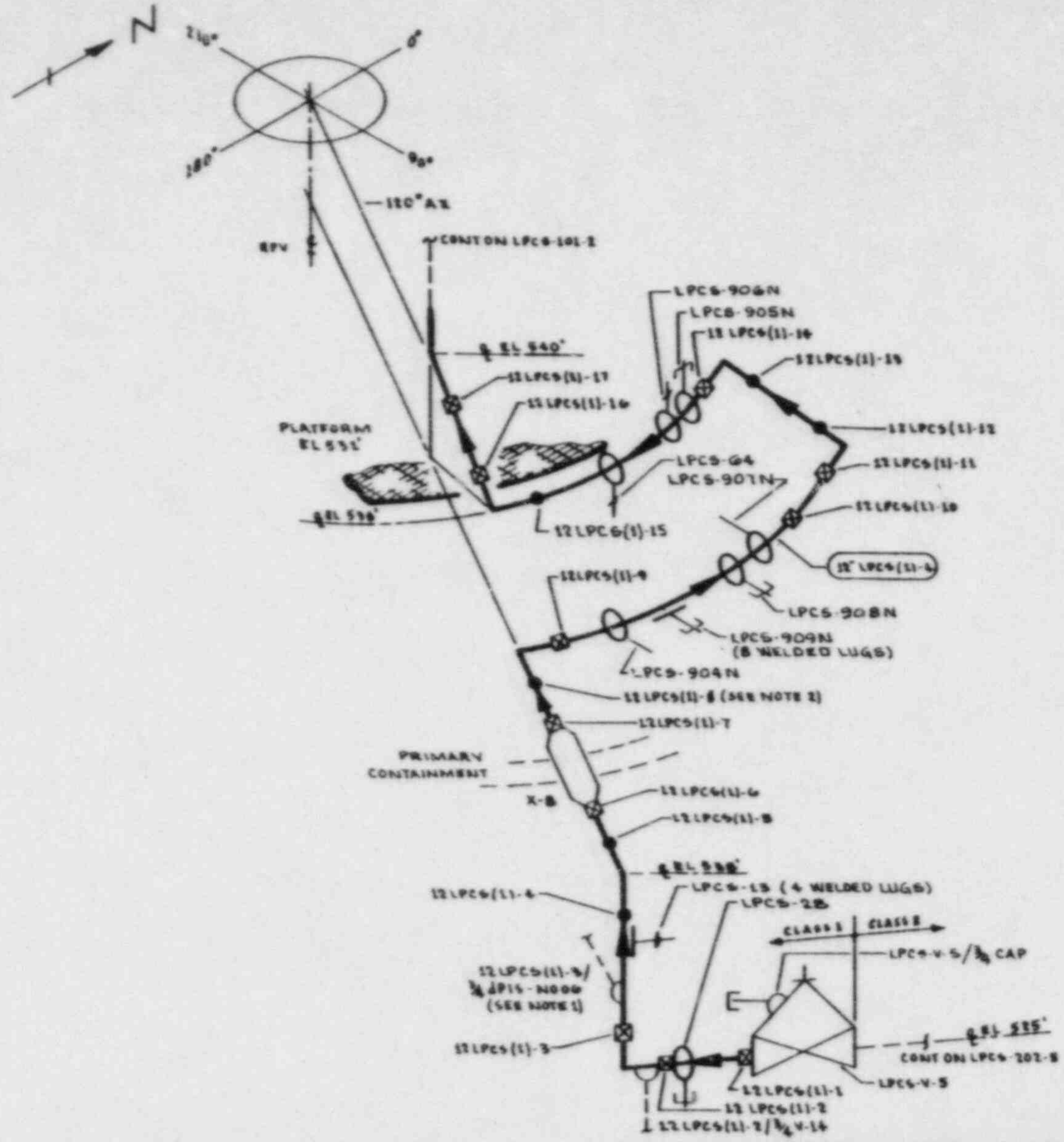
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-35	SPRING	IWF	F-X	VT3H				F	
HPCS-37	ANCHOR	IWF	F-X	VT3H				F	
HPCS-38	SPRING	IWF	F-X	VT3H				F	
HPCS-40	STRUT	IWF	F-X	VT3H				F	
HPCS-925N	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4421
HPCS-505N	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N
HPCS-924N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3924/3883
16HPCS(1)-50	PIPE TO RED	C-F-2	C5.51	VOL	UT-15			F8	RECEIVED PSI EXAM
			C5.51	SUR				F8	
HPCS-PB-202(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
HPCS-PB-202(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

WNP-02
INTERVAL: 01
DRAWING NO. HPCS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(4)-1
DESCRIPTION: HPCS

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
HPCS-7									
	ANCHOR	IWF	F-X	VT3H				F	
HPCS-921N									
	STRUT	IWF	F-X	VT3H				F	
HPCS-12									
	BOX	IWF	F-X	VT3H				F	
HPCS-922N									
	STRUT	IWF	F-X	VT3H				F	



NOTES:

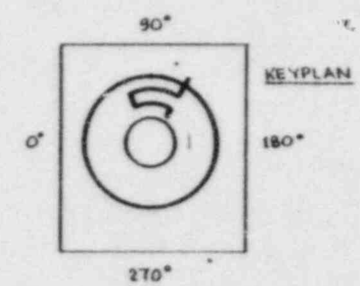
1. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. PIPING SYSTEM 12" LPCS(1)-4 IS CONSTRUCTED OF SEAMLESS SCH 80 PIPE & FITTINGS EXCEPT FOR THE SR ELL ASSOCIATED WITH WELDS 12LPCS(1)-8 & 9 WHICH IS SEAMLESS SCH 100. USE CAL BLOCKS SHOWN BELOW ACCORDINGLY.
3. ACCESS TO 12LPCS(1)-5 & 12LPCS(1)-6 REQUIRES USE OF A LADDER.
4. ACCESS TO 12LPCS(1)-1 REQUIRES REMOVAL OF LPCS-2B.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

LPCS-756-19.21 REV 8

LPCS-756-22.24 REV 9



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" LPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
12" LPCS(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
LUGS	NA	NA	NA	SA 515 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-16-83	ADDED SUPPORTS, NOTES 3 & 4, LUGS DELETED ¾ LOC.			
1	7-17-79	ELBOW CHANGED TO SEAMLESS DOWNSTREAM OF 12LPCS(1)-8, PER AS BUILT. SH D-5			
0	11-15-78	ISSUED FOR USE (REDRAWN)			
A	10-28-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: G.A. KUGLER | DRAWN: K. McA | DATE: 10-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

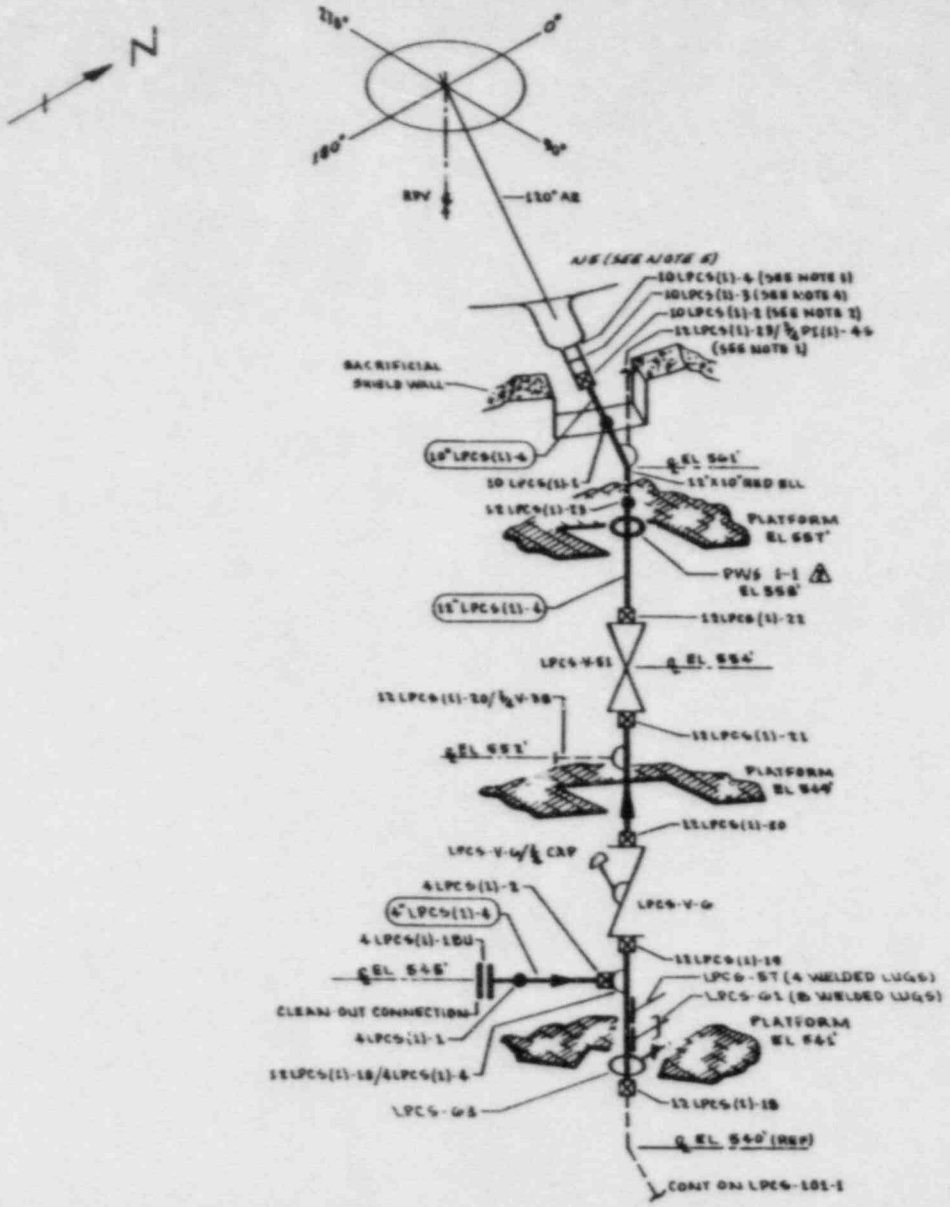
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: LPCS DISCHARGE TO VESSEL

DWG NO: LPCS-101-1 | REV 2



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-78b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. DISTANCE BETWEEN WELDS 10 LPCS(1)-2 & 10 LPCS(1)-3 IS LESS THAN 6".
3. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-102.
4. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-106.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-109.

REFERENCES:

BOYER & GRAIL ISOMETRICS

LPCS-75G-22.26 REV 9
LPCS-75G-25.26 REV 7

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-5-83	ADDED SUPPORTS, LUGS & LOC CAPPED	K.M.L.	DMF	TEG
2	11-5-80	ADDED NOTE 5 & AS NOTED	G.A.H.	G.A.H.	GAH
1	5-10-79	REVISED REFERENCE TO NOTES 3 & 4	G.A.H.	G.A.H.	G.A.H.
0	11-27-78	ISSUED FOR USE (REDRAWN)	K.M.L.	G.A.H.	G.A.H.
A	11-13-78	ISSUED FOR INFORMATION ONLY	K.M.L.	DMF	G.A.H.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" LPCS (1)-4	12	80	0.688	SA 106 GR B	C6	UT-17
4" LPCS(1)-4	4	80	0.337	SA 106 GR B	C6	UT-33
10" LPCS(1)-4	10	80	0.594	SA 106 GR B	C6	UT-22
LUGS	NA	NA	NA	SA 515 GR 70	C6	UT-46

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: G.A. HUGLER | DRAWN: K.M.L. | DATE: 10-31-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

LPCS DISCHARGE TO VESSEL

DWG NO: LPCS-101-2 | REV 3

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-V-5-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
LPCS-V-5-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12LPCS(1)-1									
	VLV TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
LPCS-2P									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N
12LPCS(1)-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
LPCS-13(X)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	
LPCS-13									
	SPRING	IWF	F-X	VT3H				F	
12LPCS(1)-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
12LPCS(1)-5									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
12LPCS(1)-6									
	PIPE TO PEN	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	
12LPCS(1)-7									
	PEN TO PIPE	B-J	B9.11	VOL	UT-17			07	
			B9.11	SUR				07	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12LPCS(1)-8									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-9									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
LPCS-904N									
	STRUT	IWF	F-X	VT3H				F	
LPCS-909N(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	
LPCS-909N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 1066/3921
LPCS-908N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 1485
LPCS-907N									
	STRUT	IWF	F-X	VT3H				F	
12LPCS(1)-10									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-13									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-14									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-905N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4469
LPCS-906N									
	SPRING	IWF	F-X	VT3H				F	
LPCS-64									
	SPRING	IWF	F-X	VT3H				F	
12LPCS(1)-15									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-16									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-17									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-18									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
LPCS-63									
	SPRING	IWF	F-X	VT3H				F	
LPCS-61(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	
LPCS-61									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 327/291
LPCS-57(W)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-17			F	3/4"W x 2"H x 3"L.
LPCS-57									
	BOX	IWF	F-X	VT3H				F	
6RCIC(1)-15/3/4SP-19B-4									
	WOL TO PIPE	B-J	B9.32	SUR				F6	
4LPCS(1)-18U									
	FLANGE BOLTING	B-G-2	B7.50	VT-1				F	

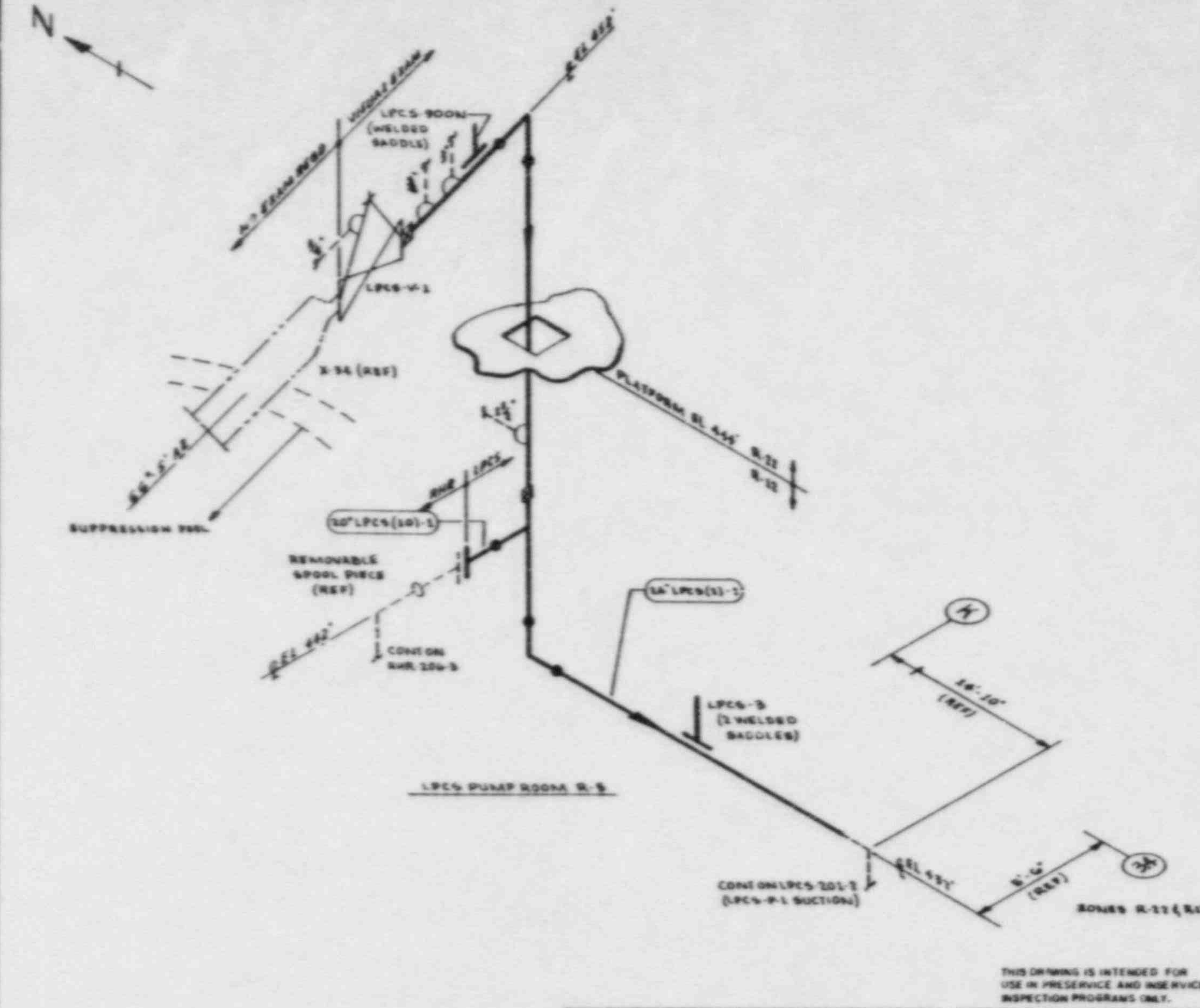
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-A
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
4LPCS(1)-1									
	FLANGE TO PIPE	B-J	B9.11	VOL	UT-30			07	
			B9.11	SUR				07	
4LPCS(1)-2									
	PIPE TO WOL	B-J	B9.11	VOL	UT-30			F6	
			B9.11	SUR				F6	
12LPCS(1)-19									
	PIPE TO VLV	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
LPCS-V-6-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
LPCS-V-6-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12LPCS(1)-20									
	VLV TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCS(1)-21									
	PIPE TO VLV	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
LPCS-V-51-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
LPCS-V-51-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12LPCS(1)-22									
	VLV TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
PWS-1-1									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
12LPCS(1)-23									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
10LPCS(1)-1									
	EL TO PIPE	B-J	B9.11	VOL	UT-22			F6	
			B9.11	SUR				F6	
10LPCS(1)-2									
	PIPE TO SE EXT	B-J	B9.11	VOL	UT-22			F6	SEE RPV-105,NOZ N5
			B9.11	SUR				F6	
10LPCS(1)-3									
	SE EXT TO SE	B-F	B5.10	VOL	UT-106			F	SEE RPV-105,NOZ N5
			B5.10	SUR				F	
10LPCS(1)-4									
	SE TO NOZZLE	B-F	B5.10	VOL	UT-102			F	SEE RPV-105,NOZ N5
			B5.10	SUR				F	
LPCS-PB-101(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
LPCS-PB-101(H)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. AT LOCATIONS WHERE LEAKAGE IS NORMALLY EXPECTED (EG, VALVE STEM & PUMP SEAL LEAK OFF CONN) VERIFY LEAKAGE COLLECTION SYSTEM OPERABILITY ONLY. NO HYDRO TEST OF COLLECTION SYSTEM IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
LPCS-798-1.2 REV 13

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" LPCS (1)-1	24	STD	0.375	SA 106 GR B	CS	NA
20" LPCS (10)-1	20	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	[illegible]	ADDED 3/4 CONN, LPCS-900N SADDLES [illegible]	[illegible]	[illegible]	[illegible]
0	[illegible]	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	[illegible]	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

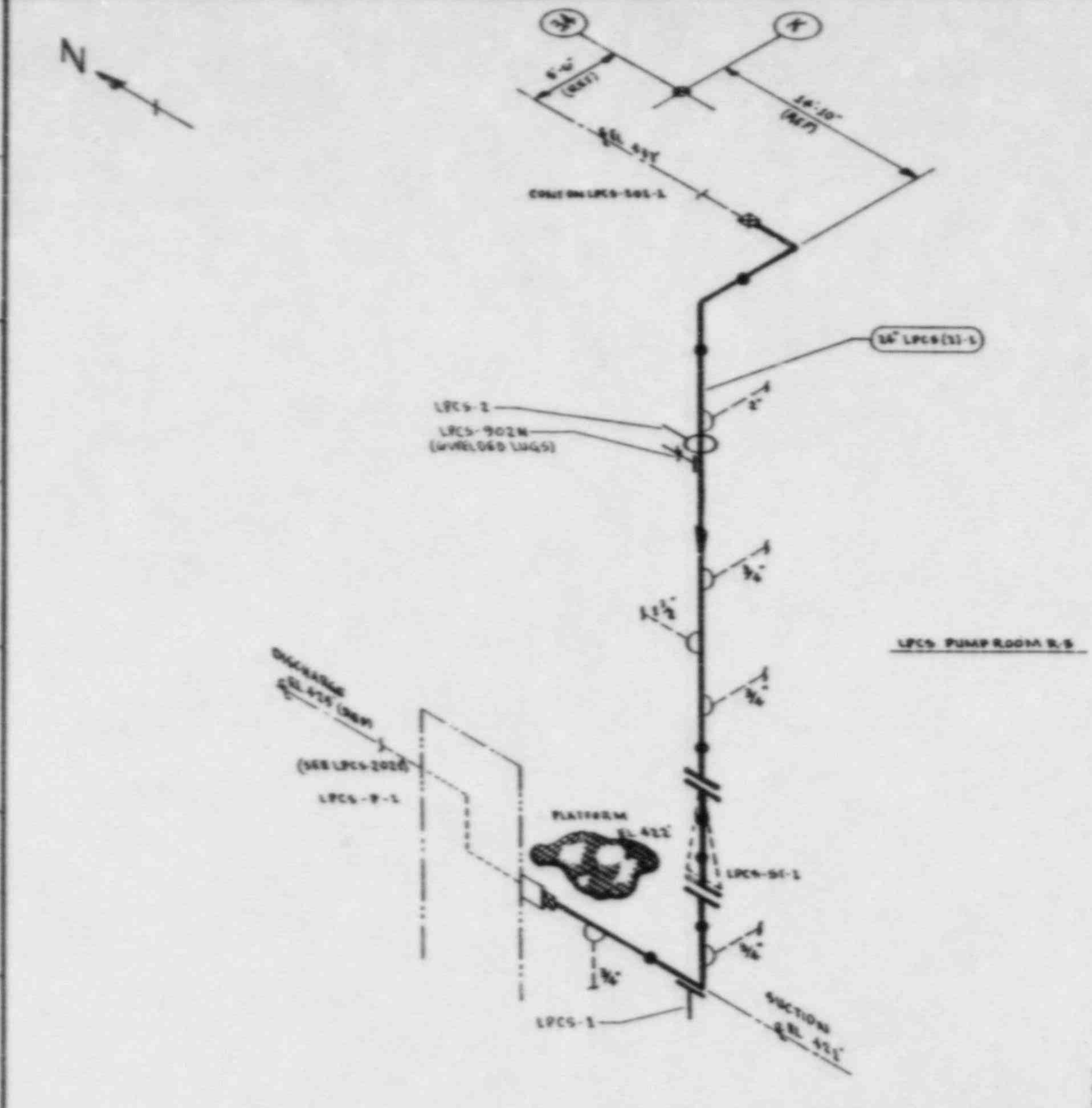
QUALITY CLASS 1 | ASME CODE CLASS 2
ENGR G.A. KUGLER | DRAWN K.McA. | DATE 8-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: LPCS SUPPRESSION POOL SUCTION

DWG NO: LPCS-201-1 | REV 1



NOTES:

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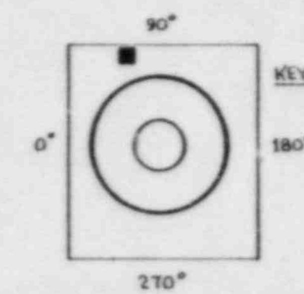
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
LPCS-158-3.5 REV 7



KEYPLAN

ZONE R-12

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" LPCS(1)-1	24	STD	0.375	SA 106 GR B	CS	NA

QUALITY CLASS 1	ASME CODE CLASS 2	
ENGR G.A. KUGLER	DRAWN K.McA	DATE 8-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS-PUMP-1 SUCTION

DWG NO: LPCS-201-2 | REV 1

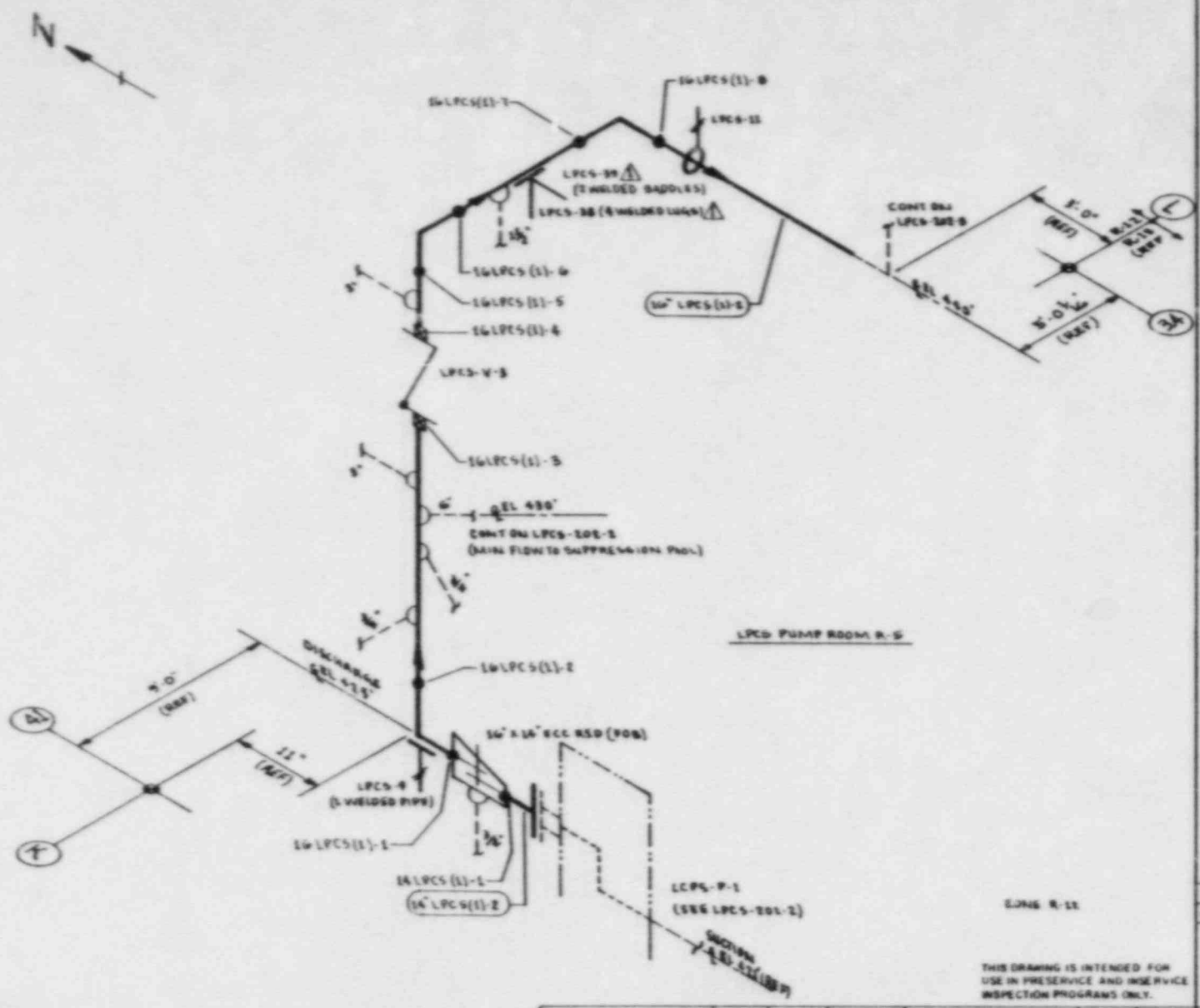
NO	DATE	REVISION	BY	CHKD	APPVD
1	[illegible]	ADDED LPCS-1, 2 & 902N & KEYPLAN			
0	[illegible]	ISSUED FOR USE			
A	[illegible]	ISSUED FOR INFORMATION ONLY			

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(2)-1
DESCRIPTION: LPCS-P-1 SUCTION

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-900N	BOX	IWF	F-X	VT3H				F	
LPCS-3	ANCHOR	IWF	F-X	VT3H				F	
LPCS-2	RIGID	IWF	F-X	VT3H				F	
LPCS-902N	SPRING	IWF	F-X	VT3H				F	
LPCS-P-1(CS)	PUMP BASE	IWF	F-X	VT3H				F	
LPCS-1	RIGID	IWF	F-X	VT3H				F	
LPCS-PB-201(L)	LK PRES BNDRY	C-H	C7.20	VT-2				R	
LPCS-PB-201(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



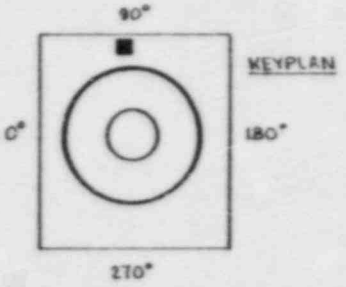
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE FOLLOWING WELD REQUIRES A SURFACE EXAM. THIS REPRESENTS 10% OF THE WELDS EXEMPTED BY IWC-1220 (c).

16 LPCS (1)-5

REFERENCES:

BOVEE & CRAIL ISOMETRIC
LPCS-TSG-1.4 REV 10



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" LPCS (1)-2	16	STD	0.375	SA 106 GR B	CS	NA
14" LPCS (1)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	7-26-78	NUMBERED WELDS, ADDED NOTE 3, 14" LPCS(1)-2 16" LPCS(1)-8	K.M.K.	[illegible]	[illegible]
1	12-22-78	ISSUED FOR USE	K.M.K.	[illegible]	[illegible]
0	10-5-78	ISSUED FOR INFORMATION ONLY	K.M.K.	[illegible]	[illegible]

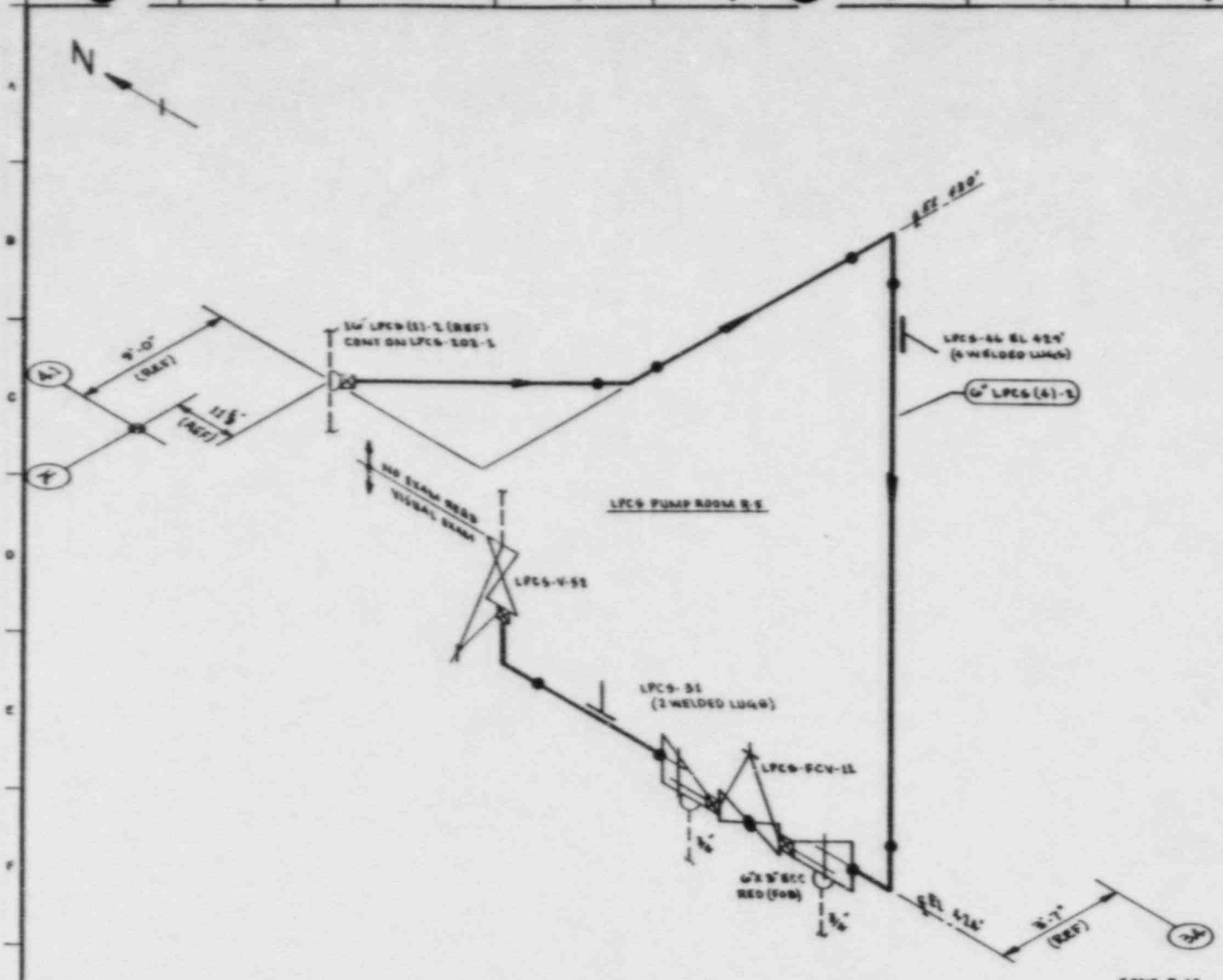
QUALITY CLASS 1 | ASME CODE CLASS 2
ENGR. A. KUGLER | DRAWN K.M.K. | DATE 8-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS-PUMP-1 DISCHARGE

DWG NO: LPCS-202-1 | REV 2

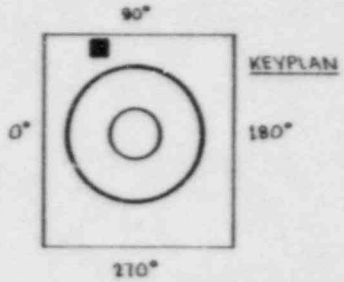


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEN & CRAIL ISOMETRIC
LPCS-TBG-B-7 REV 11



QUALITY CLASS: 1	ASME CODE CLASS 2
ENGR G.A. KIGER	DRAWN K.M.A. DATE 8-11-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" LPCS (4)-2	6	STD	0.280	SA 106 GR B	C6	NA

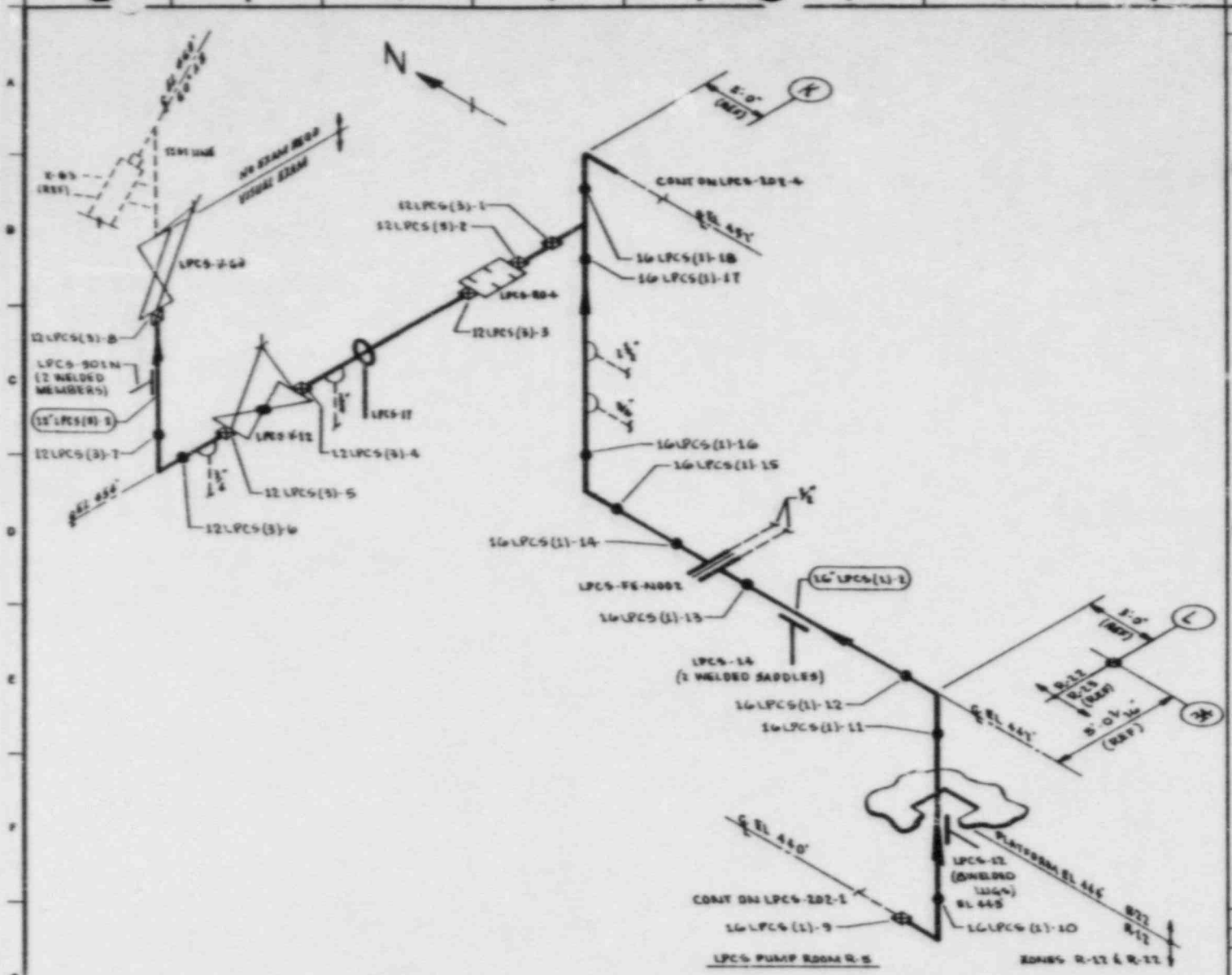
NO	DATE	REVISION	BY	CHKD	APPVD
1	9-26-78	ADDED LPCS-31 ADDED KEYPLAN	K.M.A.	JWK	[illegible]
0	11-13-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	10-5-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS MINIMUM FLOW LINE TO SUPPRESSION POOL

DWG NO: LPCS-202-2 REV 1



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCED:

BOVEE & CRAIL ISOMETRICS

LPCS-TSG-B.10	REV 8
LPCS-TS9-1	REV 9

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" LPCS(1)-2	16	STD	0.375	SA 106 GR B	CS	N.A.
12" LPCS(3)-2	12	STD	0.375	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-26-83	NUMBERED WELDS ADDED LPCS-901N DELETED LPCS-5W, 5X, 5Y & 5Z. CHANGED LPCS-12 & 17	[illegible]	[illegible]	[illegible]
0	12-23-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-5-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN K. McA. | DATE 8-15-78

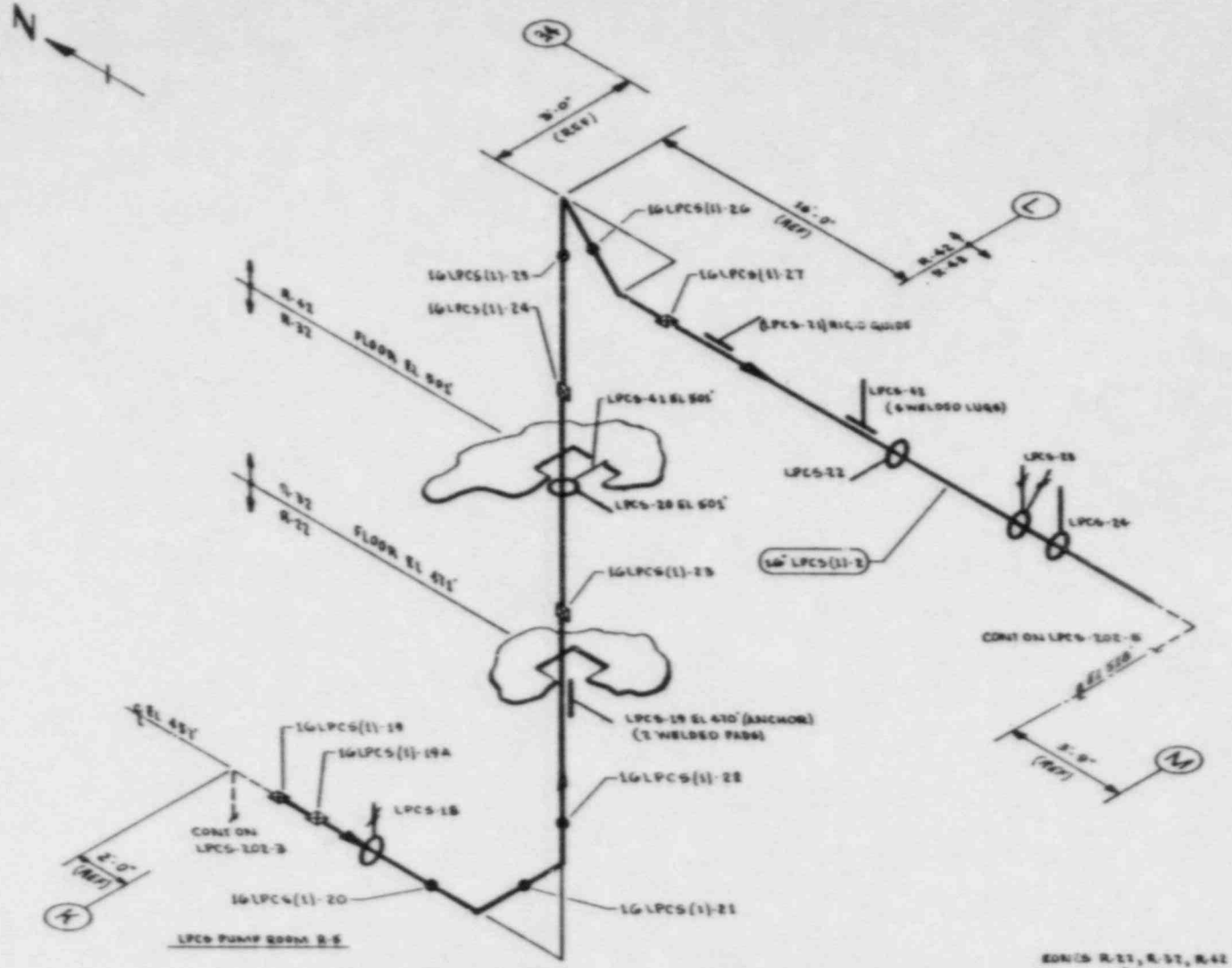
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS-PUMP 1 DISCHARGE & TEST LINES

DWG NO: LPCS-202-3 | REV 1



EDGES R-22, R-32, R-42 & R-48

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

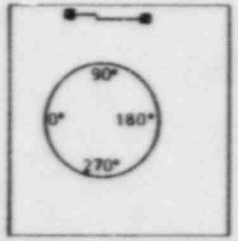
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOISE & CRAIL ISOMETRICS:

LPCS-186-11.15 REV 5



KEYPLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K.M.E.	DATE: 8-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

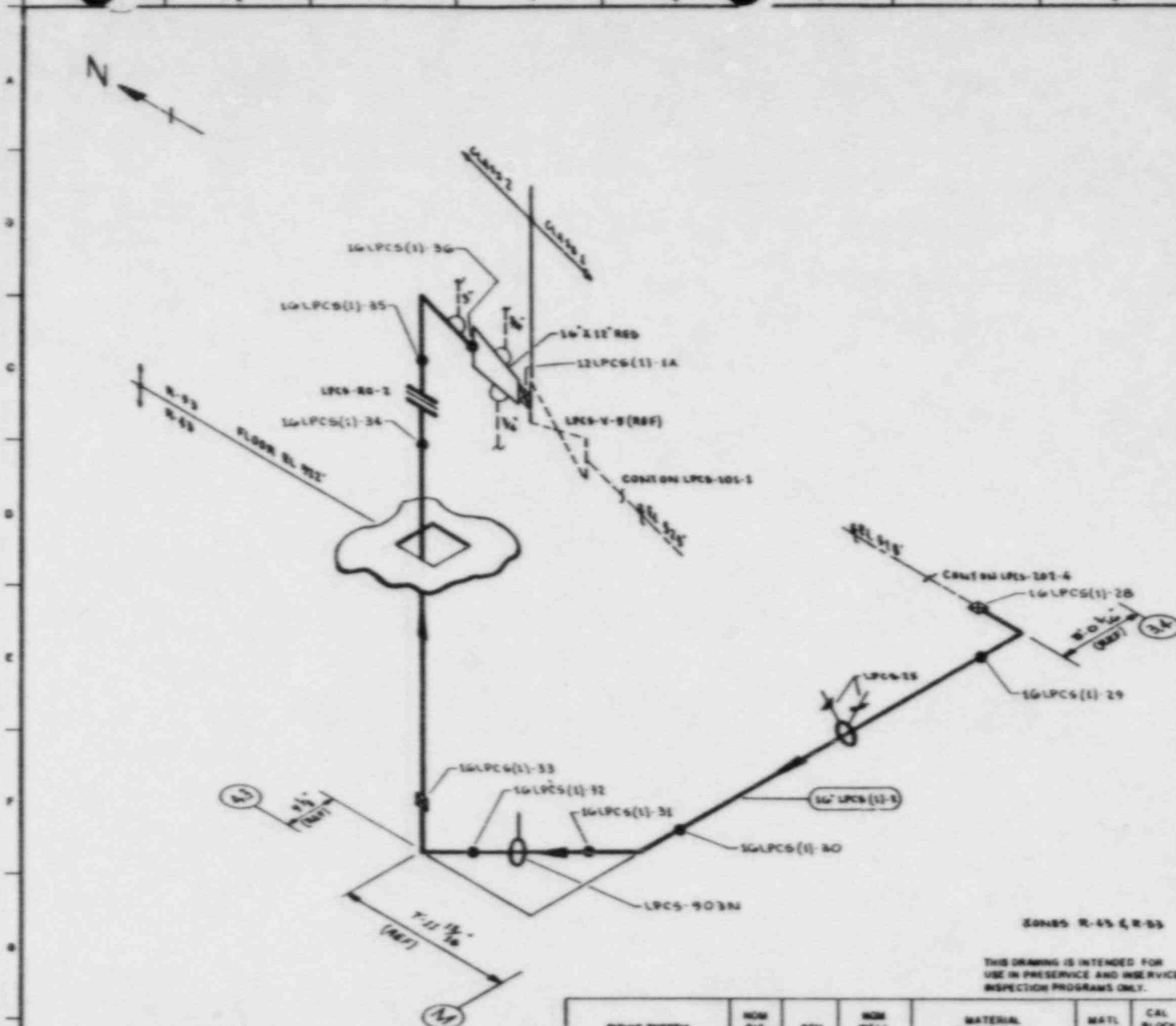
TITLE:

LPCS-PUMP-1 DISCHARGE

DWG NO: LPCS-202-6 REV 1

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" LPCS(1)-2	16	STD	0.375	SA 106 GR B	CS	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-8-83	NUMBERED WELDS. LPCS-20, 22 & 24 NOW RIGID	K.M.E.	GAK	TFB
B	10-27-78	ISSUED FOR USE	K.M.E.	GAK	TFB
A	8-21-78	ISSUED FOR INFORMATION ONLY	K.M.E.	GAK	TFB



ZONES R-45 & R-55

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" LPCS(1)-1	16	STD	0.375	SA 106 GR B	CS	NA
12" LPCS(1)-1	12	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-20-88	NUMBERED WELDS, ADDED NOTE 3, LPCS 903N, DELETED LPCS-17, 48, 47 & 16, ADDED 12 LPCS(1)1	[illegible]	[illegible]	[illegible]
0	12-22-18	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	10-5-18	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

NOTES:

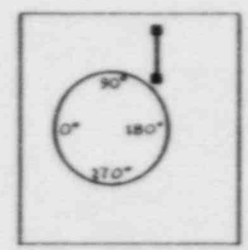
1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (COMM SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE FOLLOWING WELDS REQUIRE A SURFACE EXAM. THEY REPRESENT 10% OF THE WELDS EXEMPTED BY IWC-1200 (c):

12 LPCS(1)-1A
16 LPCS(1)-28
16 LPCS(1)-30
16 LPCS(1)-31
16 LPCS(1)-32
16 LPCS(1)-33
16 LPCS(1)-35

REFERENCES:

BOVEE & CRAIL ISOMETRICS

LPCS-TSG-11-15 REV 5
LPCS-TSG-16-18 REV 5



KEYPLAN

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR G.A. KUGLER | DRAWN K.Mc.A. | DATE 8-21-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: LPCS-PUMP-1 DISCHARGE

DWG NO: LPCS-101-5 | REV 1

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-2
DESCRIPTION: LPCS-P-1 DISCHARGE

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
LPCS-9	SPRING	IWF	F-X	VT3H				F	
LPCS-46	BOX	IWF	F-X	VT3H				F	
LPCS-31	BOX	IWF	F-X	VT3H				F	
16LPCS(1)-5	PIPE TO EL	C-F-2	C5.51	SUR				F8	RECEIVED PSI EXAM THICKNESS EXAM 10YR
			C5.51	VOL				F8	
			SPEC	VOL				NP	
LPCS-38	BOX	IWF	F-X	VT3H				F	
LPCS-39	BOX	IWF	F-X	VT3H				F	
LPCS-11	SPRING	IWF	F-X	VT3H				F	
LPCS-12	BOX	IWF	F-X	VT3H				F	
LPCS-14	ANCHOR	IWF	F-X	VT3H				F	
LPCS-17	BOX	IWF	F-X	VT3H				F	
LPCS-901N	ANCHOR	IWF	F-X	VT3H				F	
LPCS-18	SPRING	IWF	F-X	VT3H				F	
LPCS-19	ANCHOR	IWF	F-X	VT3H				F	
LPCS-20	STRUT	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-2
DESCRIPTION: LPCS-P-1 DISCHARGE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-41									
	STRUT	IWF	F-X	VT3H				F	
LPCS-21									
	BOX	IWF	F-X	VT3H				F	
LPCS-42									
	BOX	IWF	F-X	VT3H				F	
LPCS-22									
	RIGID	IWF	F-X	VT3H				F	
LPCS-23									
	SPRING	IWF	F-X	VT3H				F	
LPCS-24									
	BOX	IWF	F-X	VT3H				F	
LPCS-25									
	SPRING	IWF	F-X	VT3H				F	
16LPCS(1)-30									
	PIPE TO EL	C-F-2	C5.51	SUR				FB	RECEIVED PSI EXAM
			C5.51	VOL				FB	
LPCS-905%									
	ANCHOR	IWF	F-X	VT3H				F	
16LPCS(1)-32									
	PIPE TO EL	C-F-2	C5.51	SUR				FB	RECEIVED PSI EXAM
			C5.51	VOL				FB	
16LPCS(1)-33									
	EL TO PIPE	C-F-2	C5.51	SUR				FB	RECEIVED PSI EXAM
			C5.51	VOL				FB	
16LPCS(1)-35									
	FLANGE TO EL	C-F-2	C5.51	SUR				FB	RECEIVED PSI EXAM
			C5.51	VOL				FB	
12LPCS(1)-1A									
	RED TO VALVE	C-F-2	C5.51	SUR				FB	RECEIVED PSI EXAM
			C5.51	VOL				FB	

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-2
DESCRIPTION: LPCS-P-1 DISCHARGE

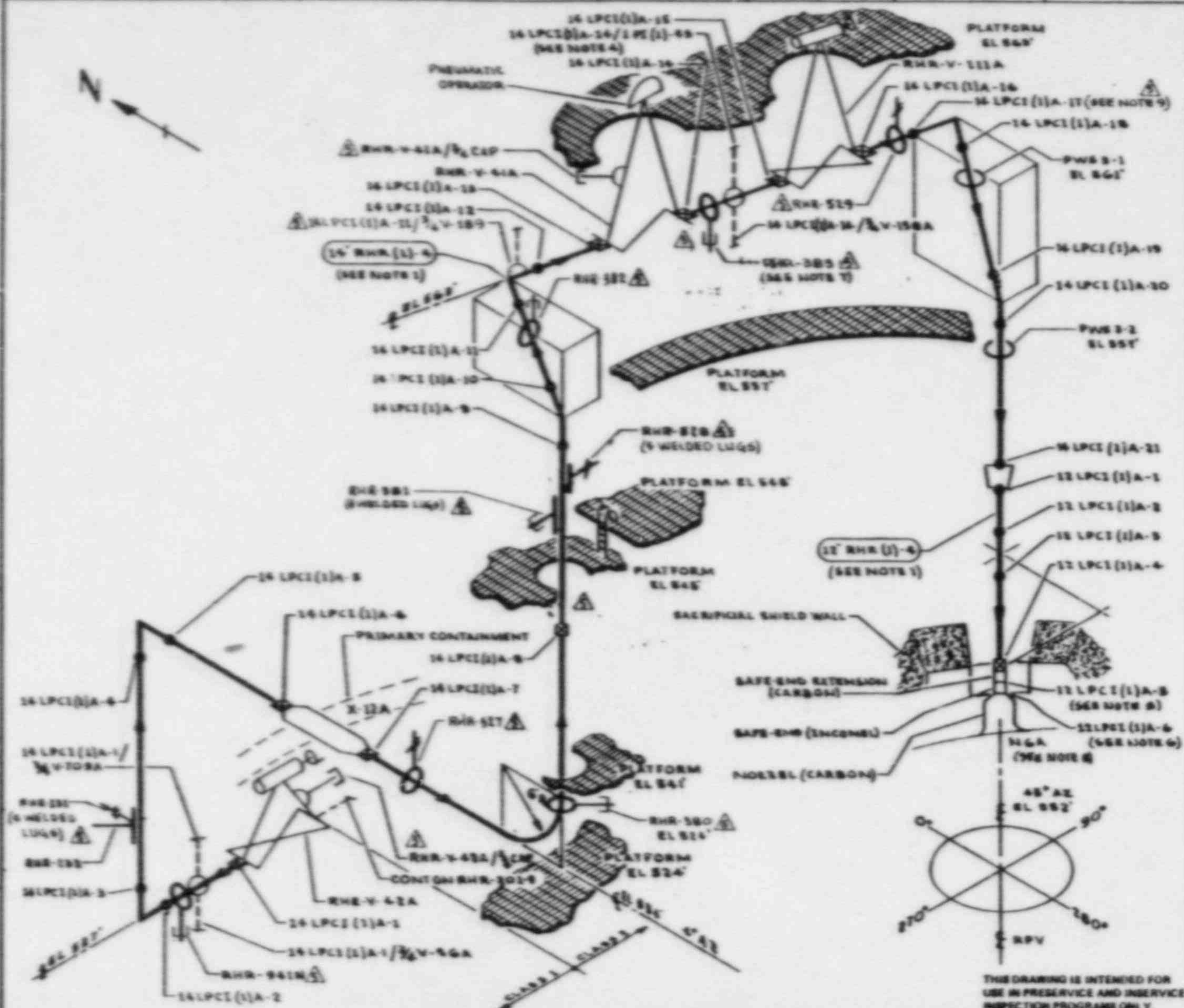
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-PB-202(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
LPCS-PB-202(M)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

WNP-02
INTERVAL: 01
DRAWING NO. LPCS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(4)-1
DESCRIPTION: LPCS

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
LPCS-32	RIGID	IWF	F-X	VT3H				F	
LPCS-45	RIGID	IWF	F-X	VT3H				F	
LPCS-33	RIGID	IWF	F-X	VT3H				F	
LPCS-35	SPRING	IWF	F-X	VT3H				F	
LPCS-34	RIGID	IWF	F-X	VT3H				F	
LPCS-36	ANCHOR	IWF	F-X	VT3H				F	
LPCS-911N	SPRING	IWF	F-X	VT3H				F	



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

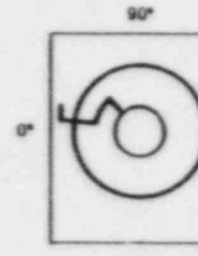
1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS AT NOZZEL N6A REQUIRES TEMPORARY SCAFFOLDING.
3. PWS 18 PR IS WITHIN ~4" OF WELD 14 LPCI (1)-18
4. EXTEND LEAKAGE BEAM THROUGH CONTAINMENT (X-74b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO, - USE CAL BLOCK UT-188.
6. DISSIMILAR METAL WELD, INCO TO CS, - USE CAL BLOCK UT-101.
7. ACCESS TO WELD 14 LPCI (1)A-15 REQUIRES REMOVAL OF RHR-383.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.
9. ACCESS TO WELD 14 LPCI (1)A-17 REQUIRES REMOVAL OF RHR-529.

REFERENCES:

BOVER & CRAIL ISOMETRICS:

RHR-881-20 REV 7
RHR-881-21-24 REV 6

KEYPLAN



QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D Panzer	DRAWN: K Mc A	DATE: 12-1-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "A"

DWG NO: RHR-101 REV 5

NO	DATE	REVISION	BY	CHKD	APPVD
5	[illegible]	ADDED KEYPLAN & AS NOTED ADDED LUGS	[illegible]	[illegible]	[illegible]
4	[illegible]	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
3	11-5-80	CORRECTED SCH & WALL THK FOR 12" RHR (1)-4	[illegible]	[illegible]	[illegible]
2	[illegible]	ADDED NOTE 8. ADDED CALLOUT SH A-6	[illegible]	[illegible]	[illegible]
1	[illegible]	CAL BLOCK REFERENCE CHANGED (NOTE 5)	[illegible]	[illegible]	[illegible]
0	[illegible]	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	[illegible]	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA 106 GR B	CS	UT-14
12" RHR (1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

WNP-02
INTERVAL: 01
DRAWING NO. SHP-1G1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-42A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-42A-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)A-1									
	VLV TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-941N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 110
14LPCI(1)A-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-231(V)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-14			F	
RHR-231									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)A-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)A-5									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)A-6									
	PIPE TO PEN	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)A-7									
	PEN TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-527									
	SPRING	IWF	F-X	VT3H				F	
RHR-380									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 692
14LPCI(1)A-8									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-381									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N E695/W683
RHR-528(W)									
	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-14			F	
RHR-528									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)A-9									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-10									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-382									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 6126
14LPCI(1)A-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-13									
	PIPE TO VLV	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-V-41A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	

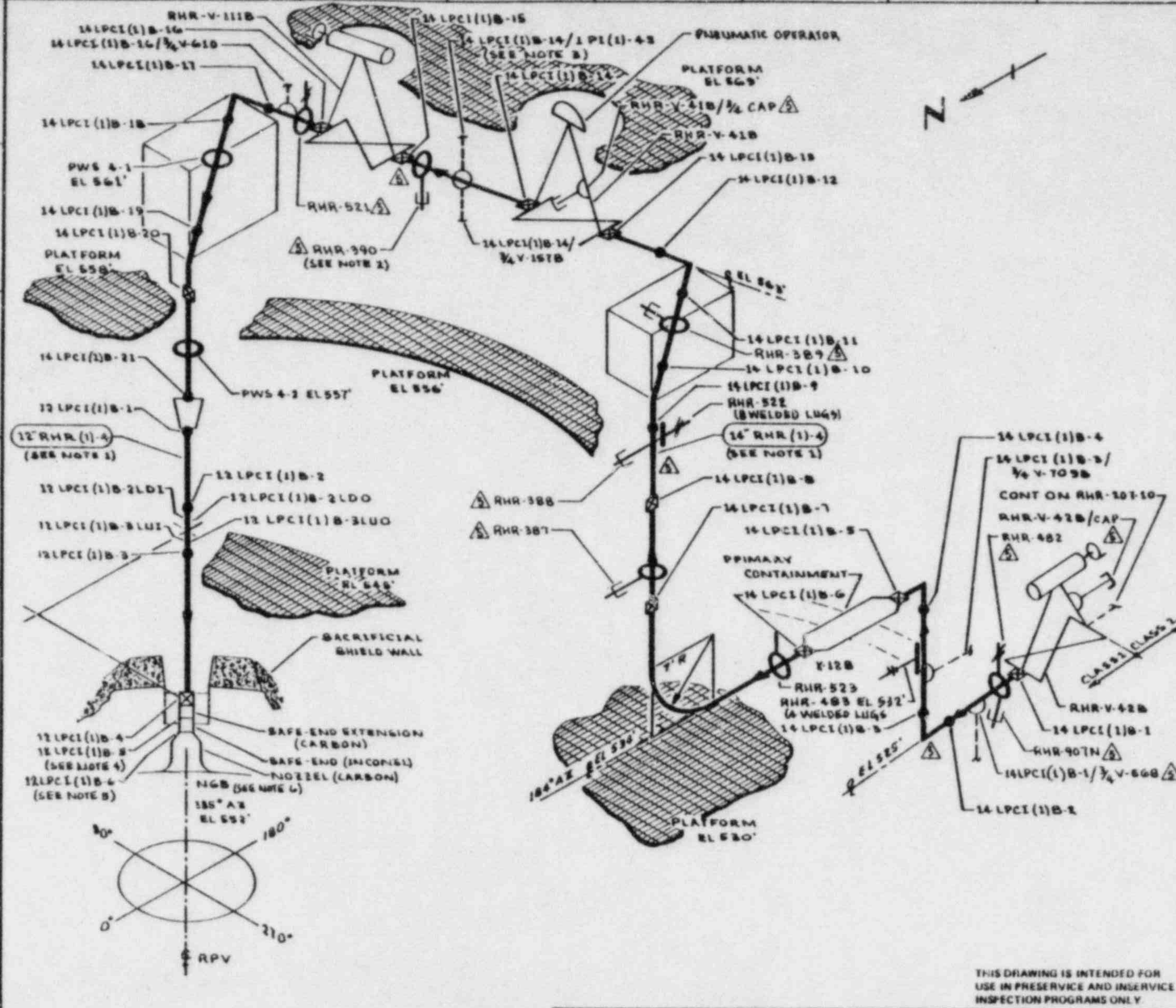
WNP-02
INTERVAL: 01
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-41A-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)A-14									
	VLV TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-383									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10568
14LPCI(1)A-15									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-V-111A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-111A-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)A-16									
	VLV TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-529									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)A-17									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-18									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
PWS-3-1									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
14LPCI(1)A-19									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)A-20									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
PWS-3-2									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
14LPCI(1)A-21									
	PIPE TO REDUCER	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
12LPCI(1)A-1									
	REDUCER TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)A-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)A-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)A-4									
	PIPE TO SE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)A-5									
	SE EXT TO SE	B-F	B5.50	VOL	UT-106			F	DISSIMILAR METAL (CS-INCO)
			B5.50	SUR				F	
12LPCI(1)A-6									
	SE TO NOZZLE	B-F	B5.10	VOL	UT-102			F	DISSIMILAR METAL (CS-INCO)
			B5.10	SUR				F	
RHR-PP-101(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PP-101(H)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



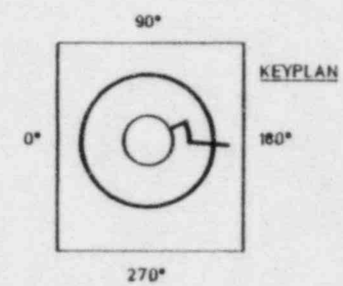
NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELD 14LPCI(1)B-15 REQUIRES REMOVAL OF RHR-390. (5)
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-106.
5. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-102.
6. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-839-38 REV 8
RHR-839-39-44 REV 9



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	80	0.688	SA-106 GR B	CS	UT-37
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

NO	DATE	REVISION	BY	CHKD	APPVD
5	9-26-85	REVISED AS NOTED ADDED KEYPLAN & LUGS	K.McA	[illegible]	[illegible]
4	11-7-81	REVISED AS NOTED	K.McA	[illegible]	[illegible]
3	11-5-80	CORRECTED SCH & WALL THK FOR 12" RHR (1)-4	K.McA	[illegible]	[illegible]
2	7-13-79	DELETED ELBOW SEAM WELDS DOWN STREAM FROM [illegible]	[illegible]	[illegible]	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 4)	K.McA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	K.McA	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K. McA | DATE: 12-9-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "B"

DWG NO: RHR-102 | REV 5

WNP-02
INTERVAL: 01
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-42B-BDY	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-42B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)B-1	VLV TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-907N	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 6234
RHR-482	STRUT	IWF	F-X	VT3H				F	
14LPCI(1)B-2	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-3	EL TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-483	SPRING	IWF	F-X	VT3H				F	
RHR-483(W)	4 WELDED LUGS	B-K-1	B10.10	VOL	UT-14			F	
14LPCI(1)B-4	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-5	EL TO PEN	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-6	PEN TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-523	SPRING	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
14LPCI(1)B-7									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-387									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11867
14LPCI(1)B-8									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-388									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N W1486/E1489
RHR-522									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)B-9									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-10									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-389									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 7040
14LPCI(1)B-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-13									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-V-41B-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RHR-102

SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-V-41B-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)B-14									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-390									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 2636
14LPCI(1)B-15									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-V-111B-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-111B-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)B-16									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-521									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)B-17									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-18									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
PWS-4-1									
	PIPE WHIP	N/A	N/A	N/A				O	SEE NOTE #1
14LPCI(1)B-19									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)B-20									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	

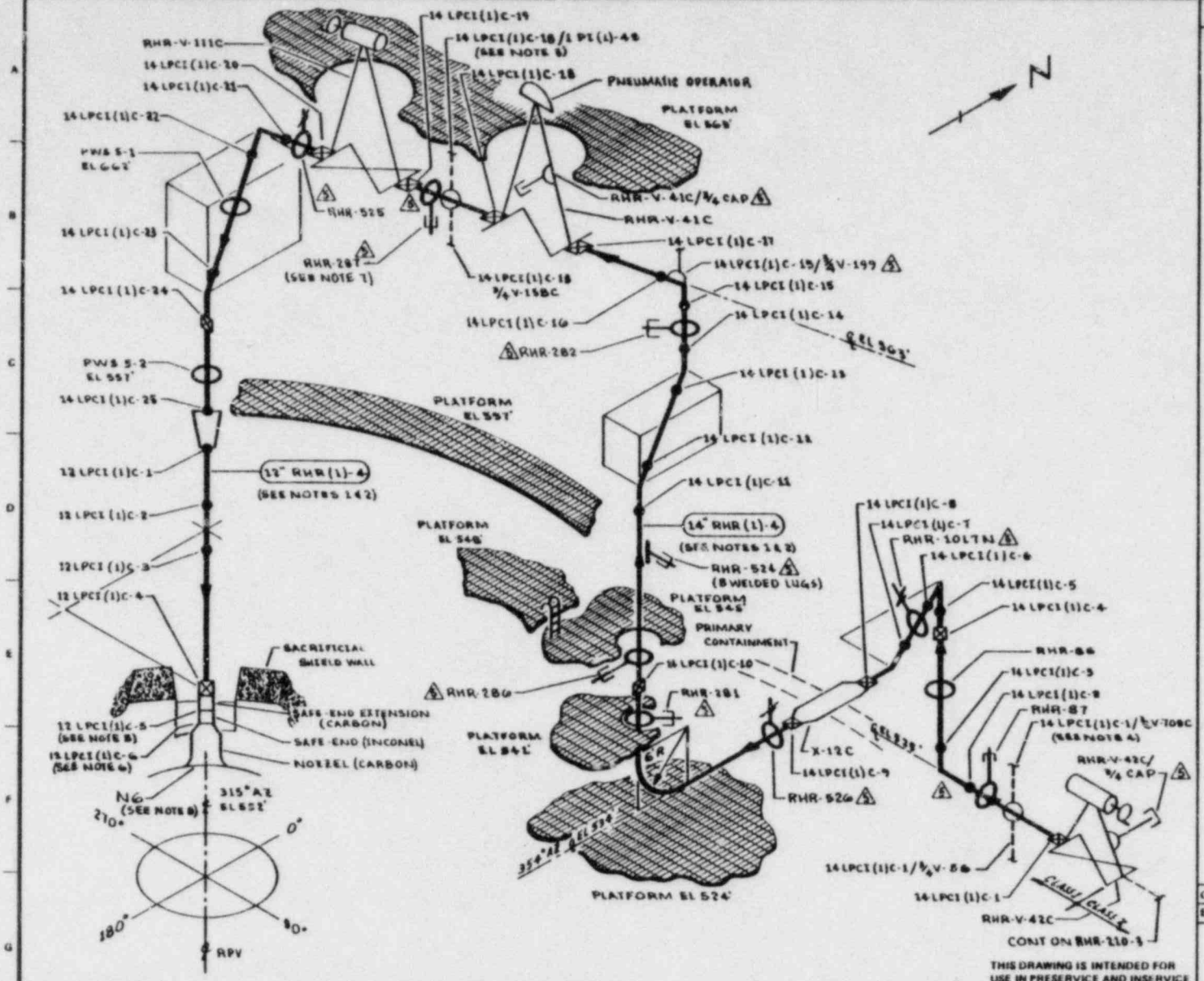
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
PWS-4-2									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
14LPCI(1)B-2									
	PIPE TO REDUCER	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
12LPCI(1)B-1									
	REDUCER TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)B-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)B-2LDI									
	EL SEAM	B-J	B9.12	VOL	UT-17			9	
			B9.12	SUR				9	
12LPCI(1)B-2LDO									
	EL SEAM	B-J	B9.12	VOL	UT-17			9	
			B9.12	SUR				9	
12LPCI(1)B-3LUI									
	EL SEAM	B-J	B9.12	VOL	UT-17			9	
			B9.12	SUR				9	
12LPCI(1)B-3LUO									
	EL SEAM	B-J	B9.12	VOL	UT-17			9	
			B9.12	SUR				9	
12LPCI(1)B-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)B-4									
	PIPE TO SE EXT	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12LPCI(1)B-5									
	SE EXT TO SE	B-F	B5.50	VOL	UT-105			F	DISSIMILAR METAL (CS-INCO)
			B5.50	SUR				F	
12LPCI(1)B-6									
	SE TO NOZZLE	B-F	B5.10	VOL	UT-102			F	DISSIMILAR METAL (CS-INCO)
			B5.10	SUR				F	
RHR-PB-102(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PB-102(H)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



NOTES:

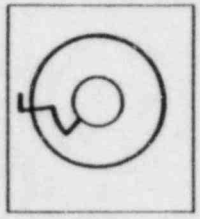
1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS 12 LPCI(1)C-1 THROUGH 12 LPCI(1)C-6 & 14 LPCI(1)C-24 REQUIRES TEMPORARY SCAFFOLDING.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (A-39c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO,- USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS,- USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI(1)C-18 (5) REQUIRES REMOVAL RHR-287.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-897-19	REV 8
RHR-897-20-24	REV 9

KEYPLAN



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
5	9-14-83	REVISED AS NOTED. ADDED KEYPLAN & LUGS	KMcA	DPP	TPP
4	12-28-81	REVISED AS NOTED	KMcA	DPP	TPP
3	11-5-80	CORRECTED SCH & WALL THK FOR 12" RHR(1)-4 & NOTED	KMcA	DPP	TPP
2	1-11-79	CORRECTED NOTE 7, ADDED NOTE 8 & CALL-OUT EEI A-4	KMcA	DPP	TPP
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)	KMcA	DPP	TPP
0	11-27-78	ISSUED FOR USE	KMcA	DPP	TPP
A	9-15-78	ISSUED FOR INFORMATION ONLY	KMcA	DPP	TPP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	80	0.688	SA-106 GR B	CS	UT-17
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D Porter	DRAWN: K McA
DATE: 12-8-77	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR/LPCI LOOP "C"

DWG NO: RHR-103 REV 5

WNP-02
INTERVAL: 01
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-42C-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-42C-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)C-1									
	VLV TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-87									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 773
14LPCI(1)C-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)C-4									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)C-5									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)C-6									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-1017N									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)C-7									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
14LPCI(1)C-8									
	EL TO PEN	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
14LPCI(1)C-9									
	PEN TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-526									
	SPRING	IWF	F-X	VT3H				F	
RHR-281									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11868
14LPCI(1)C-10									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-286									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 15466/154
RHR-524									
	SPRING	IWF	F-X	VT3H				F	
RHR-524(A)									
	A WELDED LUGS	B-K-1	B10.10	VOL	UT-14			F	
14LPCI(1)C-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-13									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-14									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-282									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10568
14LPCI(1)C-15									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
14LPCI(1)C-16									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-17									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-V-41C-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-41C-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)C-18									
	VLV TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-287									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10567
14LPCI(1)C-19									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
RHR-V-111C-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-111C-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
14LPCI(1)C-20									
	VALVE TO PIPE	B-J	B9.11	VOL	UT-14			07	
			B9.11	SUR				07	
RHR-525									
	SPRING	IWF	F-X	VT3H				F	
14LPCI(1)C-21									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-22									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	

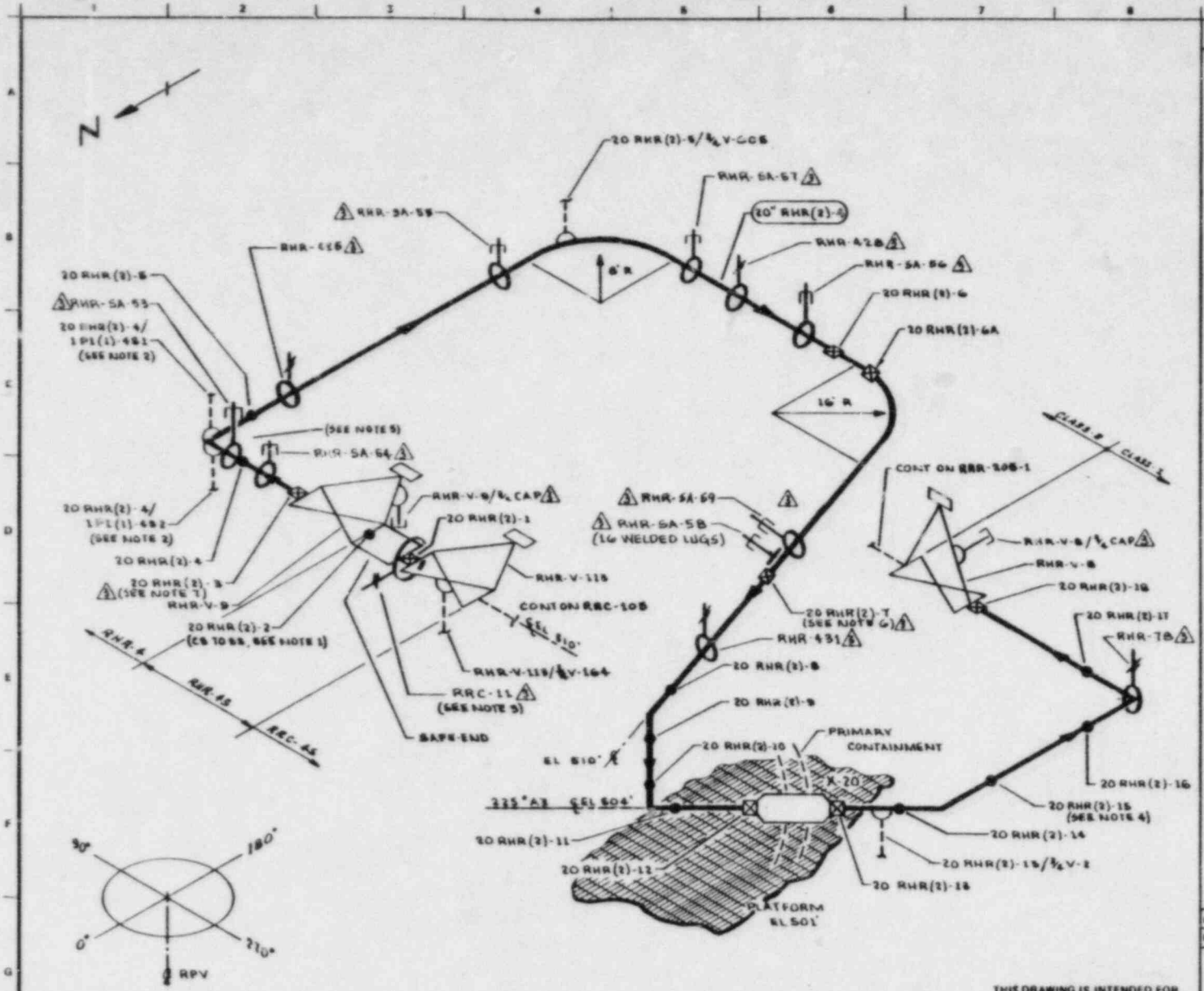
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

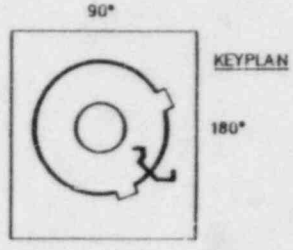
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
PWS-5-1									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
14LPCI(1)C-23									
	PIPE TO EL	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
14LPCI(1)C-24									
	EL TO PIPE	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
PWS-5-2									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
14LPCI(1)C-25									
	PIPE TO REDUCER	B-J	B9.11	VOL	UT-14			F6	
			B9.11	SUR				F6	
12LPCI(1)C-1									
	REDUCER TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)C-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)C-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)C-4									
	PIPE TO SE EXT	B-J	B9.11	VOL	UT-17			F6	
			B9.11	SUR				F6	
12LPCI(1)C-5									
	SE EXT TO SE	B-F	B5.50	VOL	UT-106			F	DISSIMILAR METAL (CS-INCO)
			B5.50	SUR				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
12LPCI(1)C-F									
	SE TO NOZZLE	B-F	B5.10	VOL	UT-102			F	DISSIMILAR METAL (CS-INCO)
			B5.10	SUR				F	
RHR-PP-103(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PP-103(P)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	





NOTES:

1. DISSIMILAR METAL WELD, C5 TO SS USE CAL BLOCK UT-9
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-37 & 6") THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELDS 20RHR(2)-1 & 20 RHR(2)-2 REQUIRES REMOVAL OF RRC-11
4. DISTANCE BETWEEN WELDS 20RHR(2)-15 & 20 RHR(2)-16 IS 4".
5. AN ELECTRICAL JUNCTION BOX IS ABOVE PIPE WITH 4" CLEARANCE.
6. ACCESS TO WELD 20RHR(2)-7 REQUIRES REMOVAL OF RHR-SA-58.
7. ACCESS TO WELD 20 RHR (2)-3 REQUIRES REMOVAL OF RHR-SA-54.

REFERENCES

BOVEE & CRAIL ISOMETRICS:

RHR-874-1.3	REV 10
RHR-874-G	REV 10

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NO	DATE	REVISION	BY	CHKD	APPVD
3	7-6-79	REVISED AS NOTED. ADDED KEYPLAN, LUGS	[illegible]	[illegible]	[illegible]
2	12-2-81	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	9-17-79	ADDED FIELD WELD 20 RHR(2)-6A PER AS BUILT. SEE C-6	[illegible]	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(2)-4	20	80	1.031	SA 106 GR B	CS	UT-10
20" RHR(2)-45	20	80	1.031	SA 376 TP 304	SS	UT-9
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46
LUGS	NA	NA	NA	SA 240 TP 304	SS	UT-47

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D. Porter | DRAWN: V. McA. | DATE: 12-13-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR SHUTDOWN COOLING SUCTION

DWG NO: RHR-104 | REV 3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RHR-104

SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-V-113-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
20RHR(2)-1									
	VLV TO SE	B-J	B9.11	VOL	UT-9			F6	
			B9.11	SUR				F6	
RFC-11									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)-2									
	SE TO PIPE	B-F	B5.50	VOL	UT-9			F	DISSIMILAR METAL (SS-CS)
			B5.50	SUR				F	
RHR-V-9-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
20RHR(2)-3									
	VLV TO PIPE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
RHR-SA-54									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 6125
20RHR(2)-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
RHR-SA-53									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 113
20RHR(2)-5									
	EL TO PIPE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
RHR-425									
	SPRING	IWF	F-X	VT3H				F	
RHR-SA-55									
	PSA-100 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 1053

WNP-02
INTERVAL: 01
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

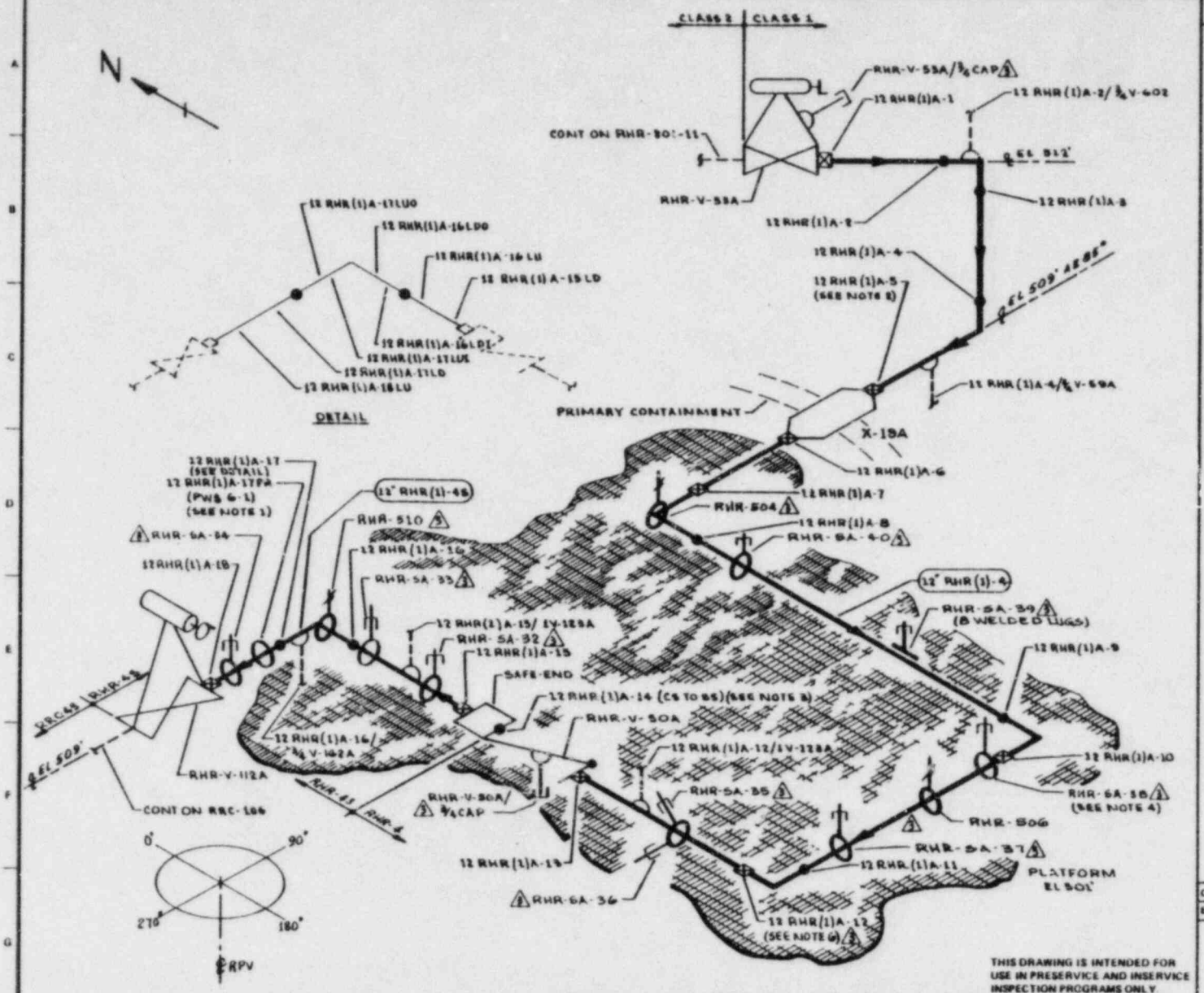
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-SA-57									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10567
RHR-42P									
	SPRING	IWF	F-X	VT3H				F	
RHR-SA-56									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 707
20RHR(2)-6									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-10			07	
			B9.11	SUR				07	
20RHR(2)-6A									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-10			07	
			B9.11	SUR				07	
RHR-SA-59									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 6278
RHR-SA-58(W)									
	16 WELDED LUGS	B-K-1	B10.10	VOL	UT-10			F	.75"Wx2.125"Hx4"L.
RHR-SA-58									
	PSA-35 SN(2)	IWF	F-X	VT3H				UVY2	S/N 62156/526
20RHR(2)-7									
	PIPE TO PIPE	B-J	B9.11	VOL	UT-10			07	
			B9.11	SUR				07	
PHR-431									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)-8									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-9									
	EL TO PIPE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-10									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
20RHR(2)-11									
	EL TO PIPE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-12									
	PIPE TO PEN	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-13									
	PEN TO PIPE	B-J	B9.11	VOL	UT-10			07	
			B9.11	SUR				07	
20RHR(2)-14									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-15									
	EL TO PIPE	B-J	B9.11	VOL	UT-10			F6	FITTING TO FITTING
			B9.11	SUR				F6	
20RHR(2)-16									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	FITTING TO FITTING
			B9.11	SUR				F6	
RHR-78									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)-17									
	EL TO PIPE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
20RHR(2)-18									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
RHR-V-8-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-PB-104(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PB-104(H)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



NOTES:

1. ACCESS TO WELD 12 RHR(1)A-18 REQUIRES REMOVAL OF 12 RHR(1)A-17PR.
2. WELD 12 RHR(1)A-5 IS FITTING TO FITTING
3. DISSIMILAR METAL WELD, CS TO SS, USE CAL BLOCK
4. ACCESS TO WELD 12 RHR(1)A-10 REQUIRES REMOVAL OF RHR-SA-38.
5. DELETED
6. CONDUIT 2½" ABOVE WELD 12 RHR(1)A-12.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-14	REV 8
RHR-851-15,16	REV 7
RHR-851-17	REV 8

KEYPLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR (1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12" RHR (1)-48	12	80	0.688	SA 312 GR B	SS	UT-19

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-24-85	REVISED AS NOTED. ADDED KEYPLAN	KMA	WPP	TMH
2	12-7-81	REVISED AS NOTED	KMA	WPP	TMH
1	8-30-79	ADDED LONG SEAM DOWNSTREAM FROM WELDS 12 RHR(1)A-15 & 17 PER AS BUILT. ADDED DETAIL FOR CLARITY. K.M.C.'S	KMA		
0	11-27-78	ISSUED FOR USE	KMA		
A	3-15-78	ISSUED FOR INFORMATION ONLY	KMA		

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K.M.C.A. | DATE: 12-14-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

SHUTDOWN COOLING RETURN LOOP "A"

DWG NO: RHR-105 | REV 3

WNP-02
INTERVAL: 01
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-53A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
12RHR(1)A-1									
	VLV TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-2									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-3									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-4									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-5									
	EL TO PEN	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-6									
	PEN TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-7									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-504									
	SPRING	IWF	F-X	VT3H				F	
12RHR(1)A-8									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-SA-40									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 296
RHR-SA-39(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-16			F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-SA-39									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 4856/4857
12RHR(1)A-9									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
12RHR(1)A-10									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
RHR-SA-38									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 1449
RHR-506									
	SPRING	IWF	F-X	VT3H				F	
RHR-SA-37									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10734
12RHR(1)A-11									
	PIPE TO EL	B-J	B9.11	VOL	UT-10			F6	
			B9.11	SUR				F6	
12RHR(1)A-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-SA-36									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 10735
RHR-SA-35									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4855
12RHR(1)A-13									
	PIPE TO VALVE	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
RHR-V-50A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-50A-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-A

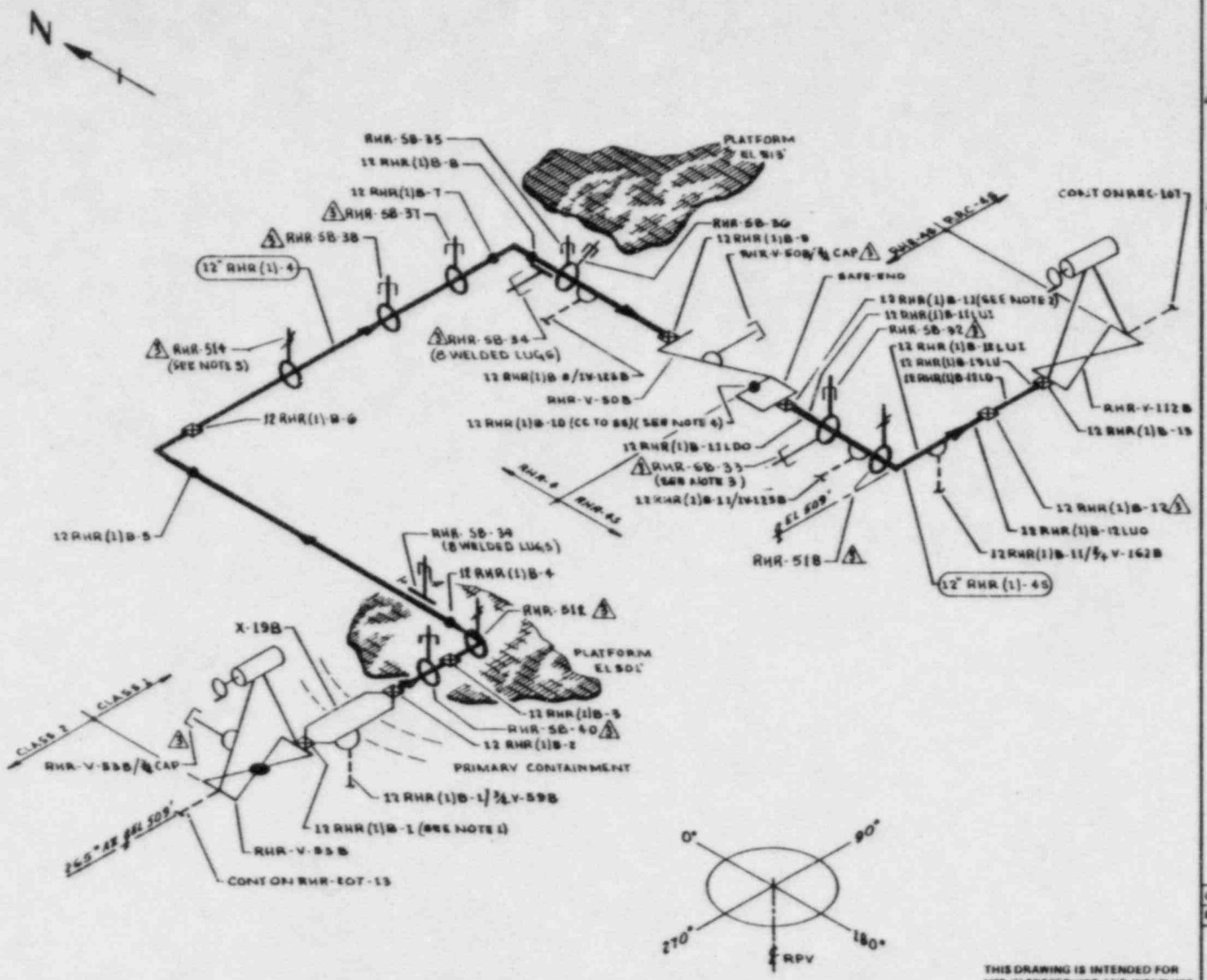
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
12RHR(1)A-14									
	VALVE TO SE	B-F	B5.50	VOL	UT-19			F	DISSIMILAR METAL (CS-SS)
			B5.50	SUR				F	
12RHR(1)A-15									
	SE TO PIPE	B-J	B9.11	VOL	UT-19			07	
			B9.11	SUR				07	
12RHR(1)A-15LD									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
RHR-SA-32									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 13031/993
RHR-SA-33									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11849
12RHR(1)A-16LU									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)A-16									
	PIPE TO EL	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	
12RHR(1)A-16LDI									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)A-16LDO									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
RHR-510									
	SPRING	IWF	F-X	VT3H				F	
12RHR(1)A-17LUI									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-A

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12RHR(1)A-17LUO									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)A-17									
	EL TO PIPE	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	
12RHR(1)A-17LO									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
PWS-6-1									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
RHR-SA-34									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 9949/9261
12RHR(1)A-18LU									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)A-18									
	PIPE TO VLV	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	
RHR-V-112A-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-112A-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
RHR-PB-105(L)									
	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PB-105(H)									
	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



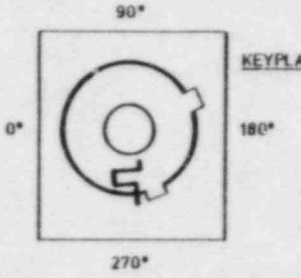
NOTES:

1. WELD N° 12 RHR(1)B-1 IS FITTING TO FITTING.
2. WELD N° 12 RHR(1)B-11 IS FITTING TO FITTING.
3. ACCESS TO WELD N° 12 RHR(1)B-11 REQUIRES REMOVAL OF RHR-SB-32 & RHR-SB-33.
4. DISSIMILAR METAL WELD, CS TO SS, USE CAL BLOCK UT-19.
5. ACCESS TO WELD N° 12 RHR(1)B-6 REQUIRES REMOVAL OF RHR-514.

REFERENCES:

BOVER & CRAIL ISOMETRICS:

RHR-899-46-47 REV 8
RHR-899-48 REV 8



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-24-85	REVISED AS NOTED. ADDED KEYPLAN, LUGS	K.M.A.	RHR	TMH
2	12-7-81	REVISED AS NOTED	K.M.A.	.	TMH
1	11-13-79	ADDED LONG SEAM DOWN STREAM FROM WELD 12 RHR (1) B-12 PER AS BUILT. ECN C-7	K.M.A.	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	K.M.A.	DHR	[illegible]
A	6-15-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR (1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12" RHR (1)-45	12	80	0.688	SA 312 TP 304	SS	UT-19
LUGS	NA	NA	NA	SA 516 GR 70	CS	UT-46
LUGS	NA	NA	NA	SA 240 TP 304	SS	UT-47

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D PORTER	DRAWN: K.M.A.
DATE: 12-15-77	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 1
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
SHUTDOWN COOLING RETURN LOOP "B"

DWG NO: RHR-106 REV 3

WNP-02
INTERVAL: 01
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-53B-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
12RHR(1)B-1									
	VLV TO PEN	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
12RHR(1)B-2									
	PEN TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				F6	
RHR-SB-40									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 4873
12RHR(1)B-3									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-512									
	SPRING	IWF	F-X	VT3H				F	
12RHR(1)B-4									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-SB-39(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-16			F	
RHR-SB-38									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX2	S/N 4863
12RHR(1)B-5									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
12RHR(1)B-6									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
RHR-514									
	SPRING	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-SR-36									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 705
RHR-SR-37									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 114
12RHR(1)B-7									
	PIPE TO EL	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
12RHR(1)B-8									
	EL TO PIPE	B-J	B9.11	VOL	UT-16			07	
			B9.11	SUR				07	
RHR-SR-34(W)									
	8 WELDED LUGS	B-K-1	B10.10	VOL	UT-16			F	
RHR-SR-34									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX2	S/N 13060/130
RHR-SR-35									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11869
RHR-SR-38									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 691
12RHR(1)B-9									
	PIPE TO VLV	B-J	B9.11	VOL	UT-16			F6	
			B9.11	SUR				F6	
RHR-V-50B-BDY									
	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-50B-BLT									
	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
12RHR(1)F-10									
	VLV TO SE	B-F	B5.50	VOL	UT-19			F	DISSIMILAR METAL (CS TO SS).
			B5.50	SUR				F	
12RHR(1)F-11									
	SE TO PIPE	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-106

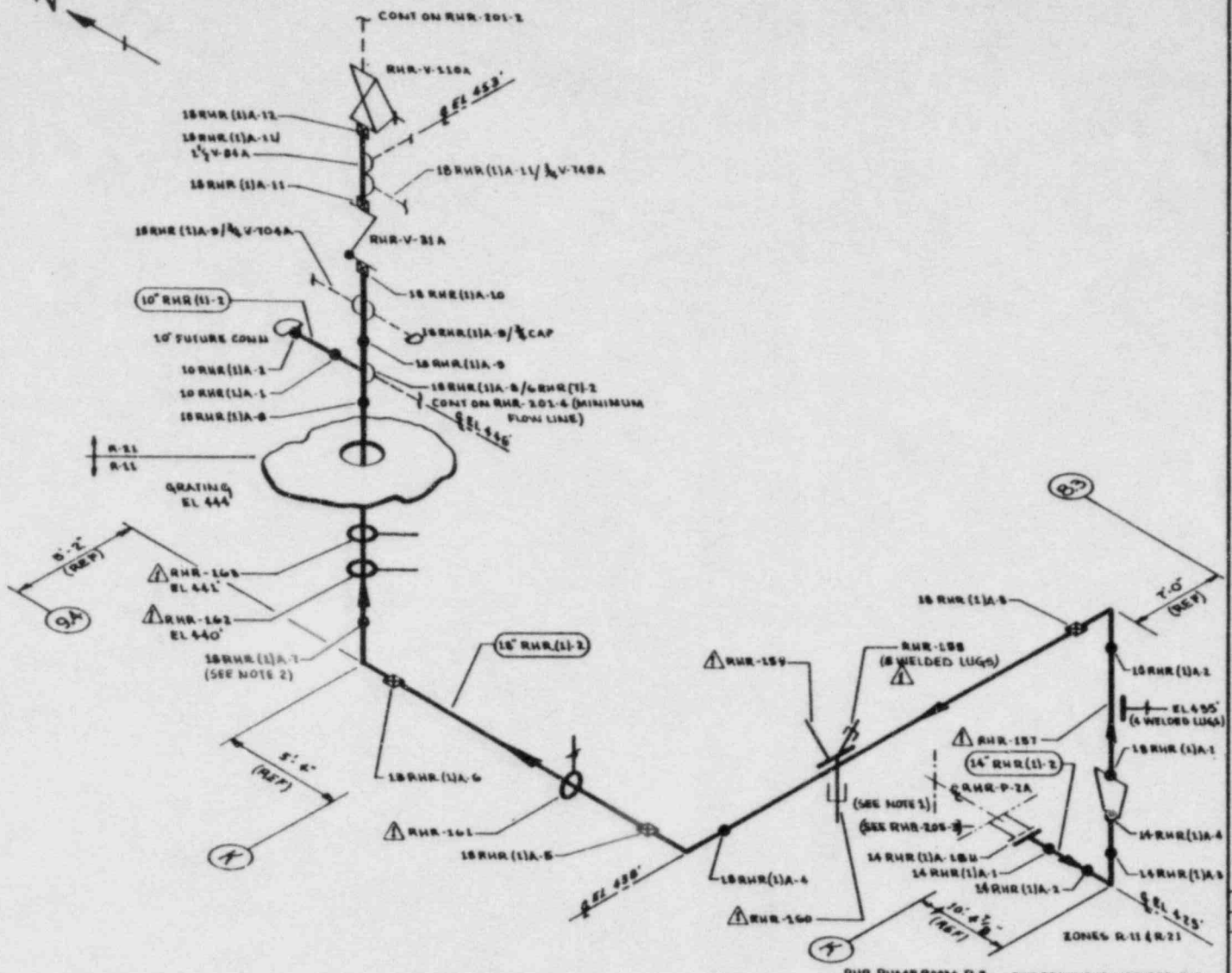
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
12RHR(1)B-11LDI									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)B-11LDO									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
RHR-SB-32									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11862
RHR-SB-33									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 11851
RHR-518									
	SPRING	IWF	F-X	VT3H				F	
12RHR(1)B-12LUI									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)B-12LUO									
	EL SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)B-12									
	EL TO PIPE	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	
12RHR(1)B-12LD									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
PWS-7-1									
	PIPE WHIP	N/A	N/A	N/A				0	SEE NOTE #1
12RHR(1)B-13LU									
	PIPE SEAM	B-J	B9.12	VOL	UT-19			9	
			B9.12	SUR				9	
12RHR(1)B-13									
	PIPE TO VLV	B-J	B9.11	VOL	UT-19			F6	
			B9.11	SUR				F6	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-V-112B-BDY	VALVE BODY	B-M-2	B12.40	VT-3				C	
RHR-V-112B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1				F	
RHR-PB-106(L)	LK PRES BNDRY	B-P	B15.50	VT-2				A	
RHR-PB-106(H)	HYDRO PRES BNDR	B-P	B15.51	VT-2				P	



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-PUMP-2A VENTS & DRAINS TO OUTERMOST NORMALLY CLOSED VALVE.
2. ACCESS TO 18 RHR (1) A-7 REQUIRES REMOVAL OF RHR-162.
3. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVAR & CRAIL ISOMETRICS

RHR-B&C-1-6	REV 7
RHR-B&C-8-7	REV 6

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
10" RHR (1)-2	10	40	0.365	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	ADDED ¾" SOL, NOTES 2 & 3. RHR 162 & 168 NOW RIGID	[illegible]	[illegible]	[illegible]
1	12-2-81	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	5-24-78	ISSUED FOR INFORMATION ONLY	[illegible]	CAK	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.C.R. | DATE: 5-1-78

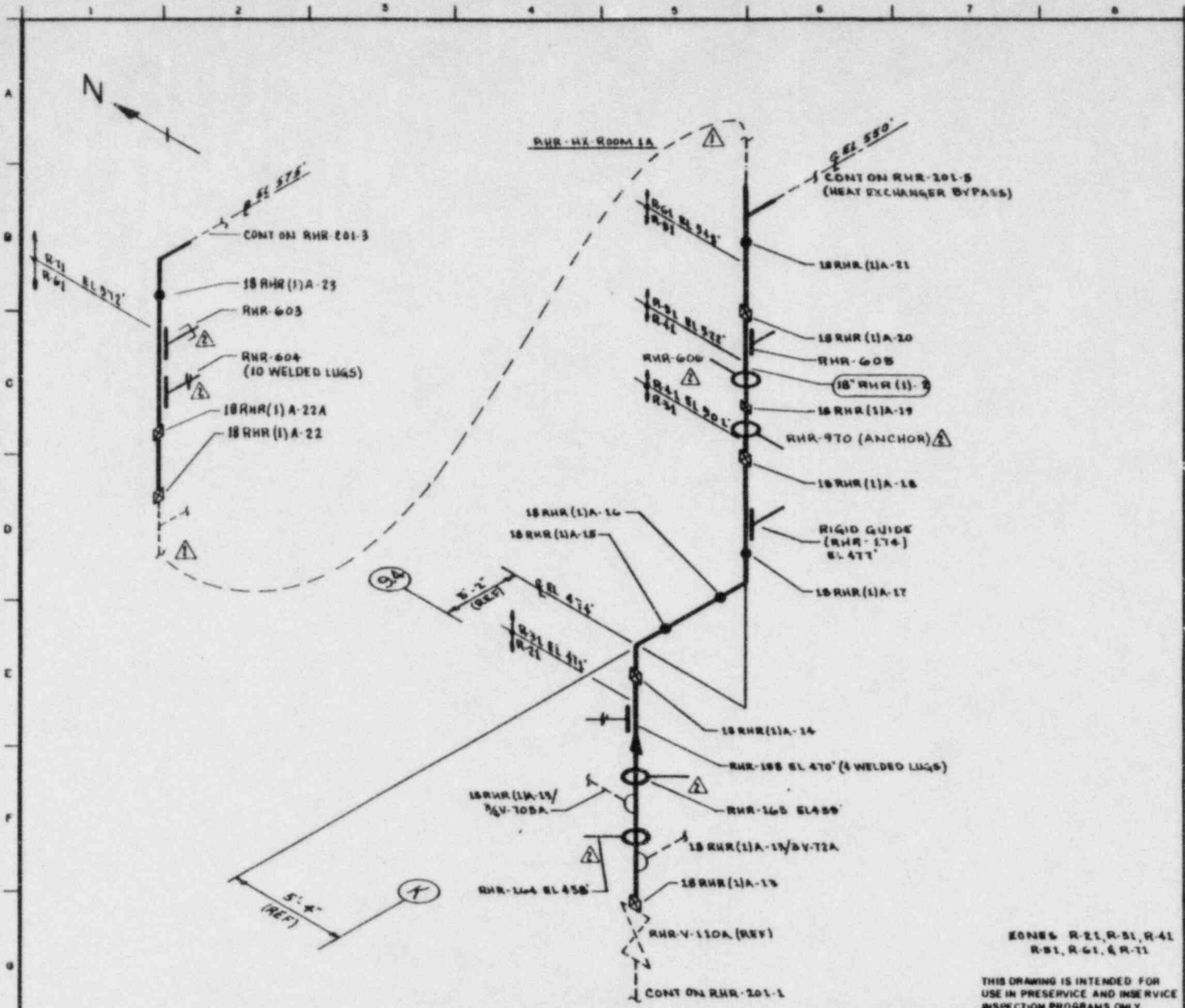
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX-1A

DWG NO: RHR-201-1 | REV 2



ZONES R-21, R-31, R-41
R-81, R-61, & R-71

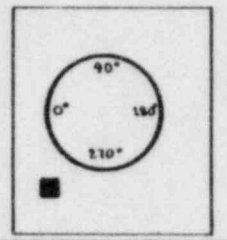
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-867-B-7	REV 6
RHR-867-B-12	REV 5



KEY PLAN

QUALITY CLASS: 1			ASME CODE CLASS: 2		
ENGR: G.A. KUGLER		DRAWN: V. M. A.		DATE: 5-1-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

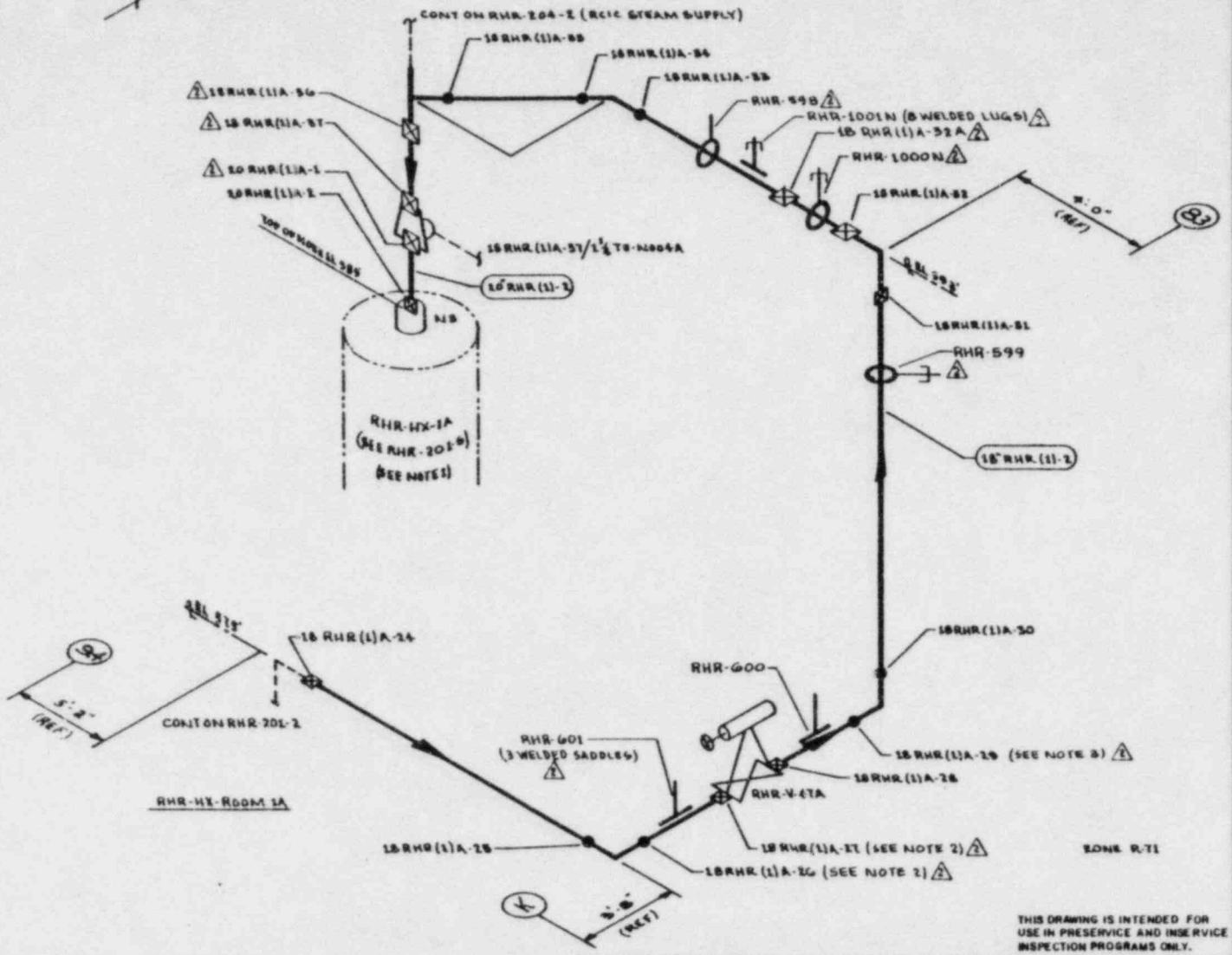
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX-1A

DWG NO: RHR-201-2 REV 2

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(1)-2	18	80	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-89	REVISED AS NOTED	[illegible]	[illegible]	TFP
1	12-28-78	REVISED AS NOTED	[illegible]	[illegible]	TFP
0	11-28-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	5-26-78	ISSUED FOR INFORMATION ONLY	[illegible]	GAK	[illegible]

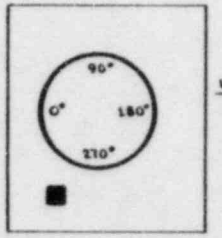


NOTES:

1. EXTEND VISUAL LEAKAGE SEAM OF RHR-HX-1A VENTS & DRAINS THROUGH OUTERMOST NORMALLY CLOSED ISOLATION VALVE, RELIEF VALVE OR TRANSITION TO INSTRUMENT TUBING.
2. RHR-601 - WELDED SADDLE 1" FROM WELD 18 RHR (1) A-26 CENTERLINE & 2" FROM WELD 18 RHR (1) A-27 CENTERLINE.
3. RHR-600 - 4" DIA PIPE WELDED TO LINE, 1½" FROM WELD 18 RHR (1) A-29 CENTERLINE AT 90° & 270°.

REFERENCES:

BOYES & CRAIL ISOMETRIC
RHR-3GT-18.18 REV 5



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.458	SA 106 GR B	C6	NA
20" RHR (1)-2	20	30	0.500	SA 106 GR B	C6	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-85	REVISED AS NOTED	K.M.A	EPK	TFK
1	12-7-81	REVISED AS NOTED	K.M.A	EPK	TFK
0	11-11-78	ISSUED FOR USE	K.M.A	TFK	TFK
A	5-26-78	ISSUED FOR INFORMATION ONLY	K.M.A	CAK	DHS

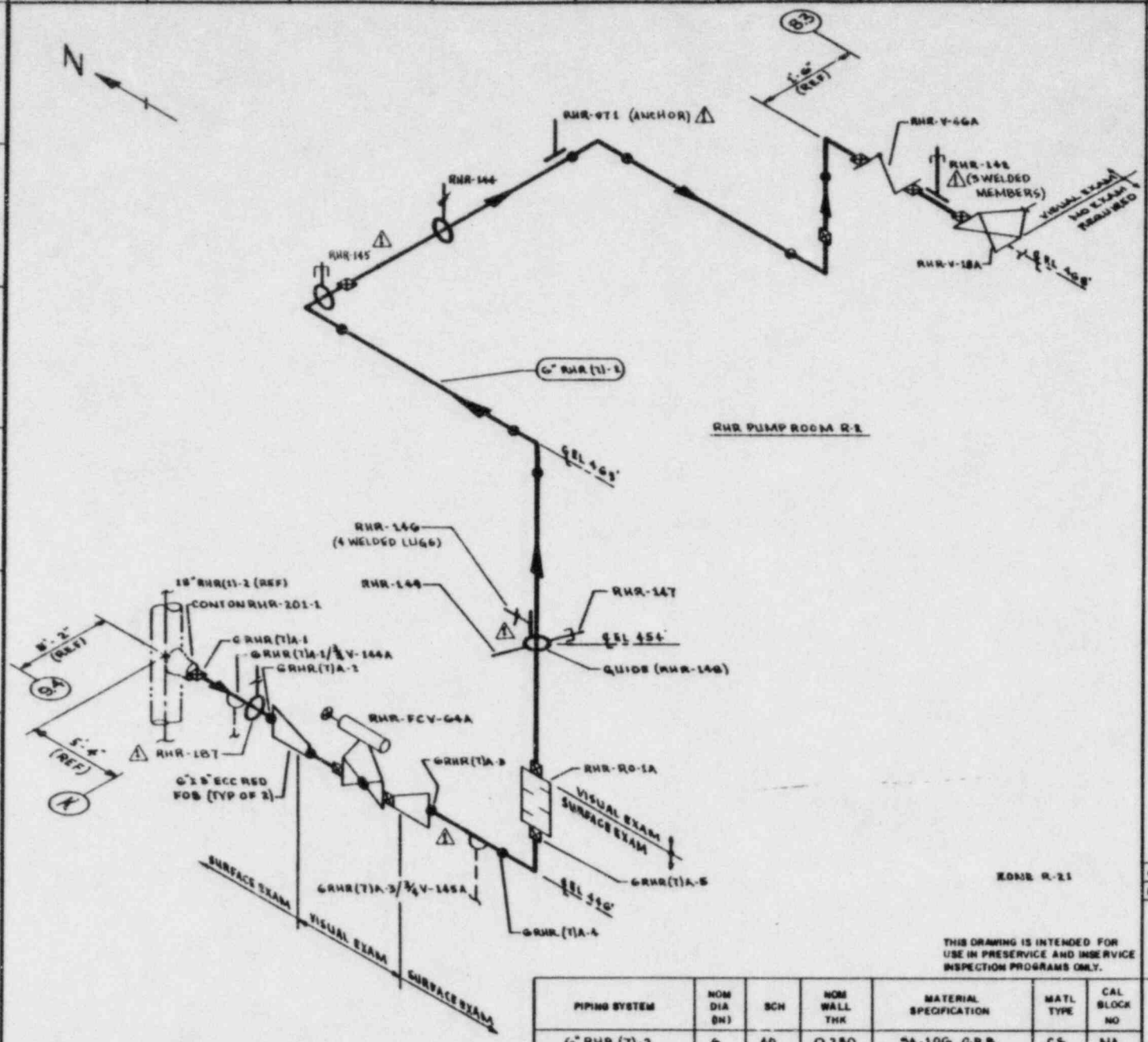
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: GA KUGLER | DRAWN: K.M.L.A. | DATE: 6-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX-1A

DWG NO: RHR-201-3 | REV 2



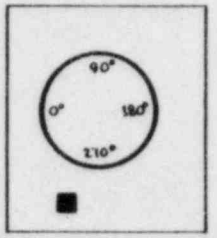
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-BGT-16-19	REV 5
RHR-BGT-20-22	REV 6



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (T)-2	6	40	0.280	SA-106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	10-18-89	REVISED AS NOTED			
0	12-27-88	ISSUED FOR USE			
A	5-26-88	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 2

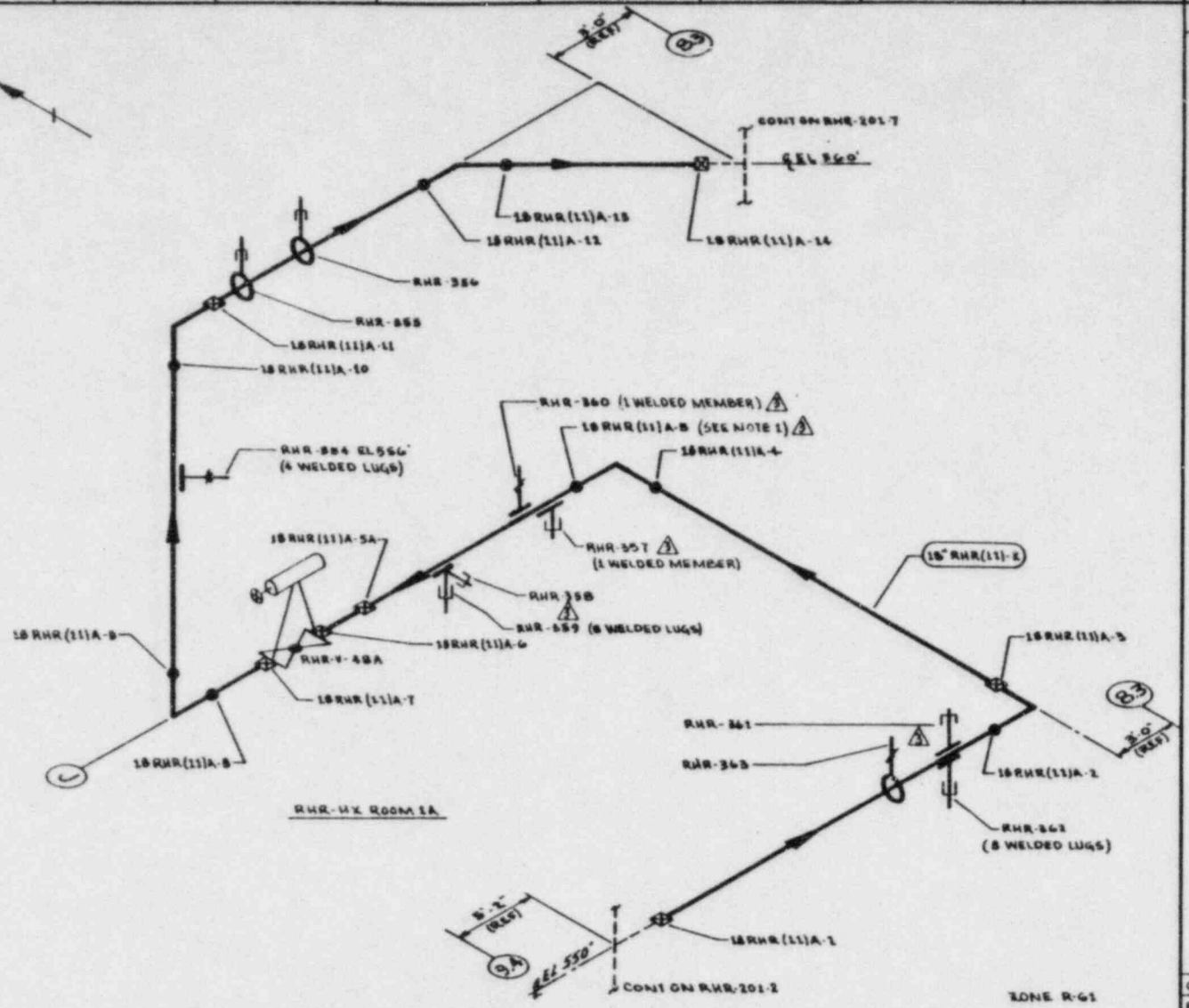
ENGR: G.A. VOIGLER | DRAWN: K.M.A. | DATE: 5-2-88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A
MINIMUM FLOW LINE TO SUPPRESSION POOL

DWG NO: RHR-201-4 | REV 1

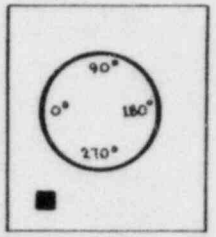


NOTES:

1. RHR-357 WELDED MEMBER IS 1½" FROM WELD 18"RHR(11)A-5 CENTERLINE AT 0°.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOYER & CRAIL ISOMETRICS
RHR-882-1.4 REV 5



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K.M.A.	DATE: 5-3-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	4-6-83	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
2	12-1-81	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
1	11-6-80	ADDED FIELD WELD 18"RHR(11)A-5A & AS NOTED	K.M.A.	[illegible]	[illegible]
0	5-5-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	5-3-78	ISSUED FOR INFORMATION ONLY	K.M.A.	G.A.K.	[illegible]

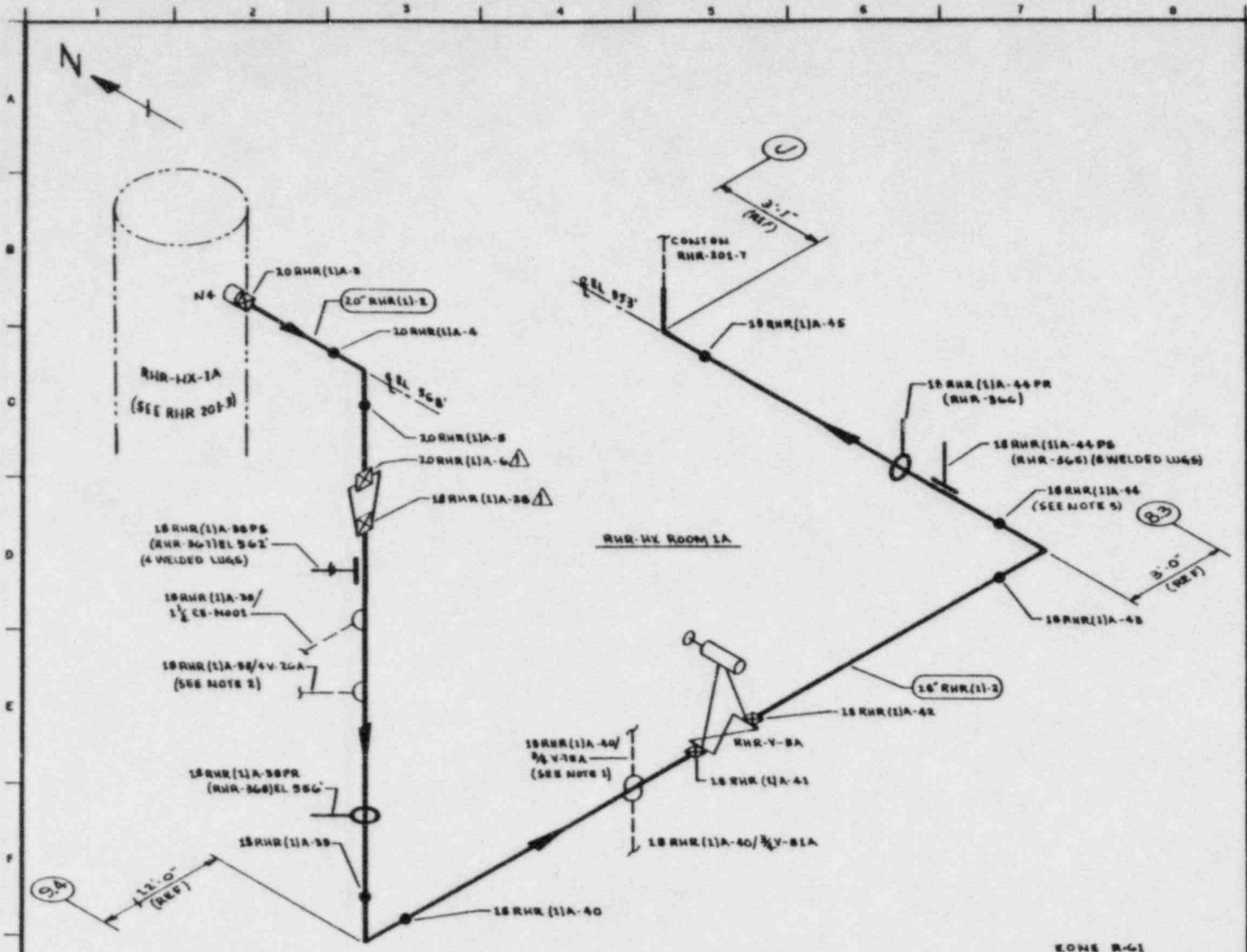
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (11)-2	18	30	0.438	SA 106 GR B	C-S	N.A.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RHR-HEAT-EXCHANGER BYPASS

DWG NO: RHR-201-5 REV 3



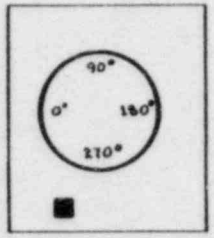
NOTES:

1. THIS IS A 1½" CONNECTION WITH VISUAL EXAM EXTENDING TO ¾" V-18A.
2. TERMINATE VISUAL EXAM AT V-26A, V-11A & V-180A.
3. FOUR LUGS FROM RHR-366 ARE 1" FROM WELD 18 RHR(1)A-44 CENTERLINE.
4. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-861-1.2 REV 9



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	N.A.
20" RHR (1)-2	20	30	0.500	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	4-26-83	ADDED NOTES 3 & 4. CHGD 20RHR(1)A-6 & 38 TO FW	KMH	JDW	JDW
0	12-23-77	ISSUED FOR USE	KMH	COK	RHB
A	5-5-77	ISSUED FOR INFORMATION ONLY	KMH	COK	RHB

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR GA KUGLER | DRAWN: V. McA. | DATE: 5-4-76

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

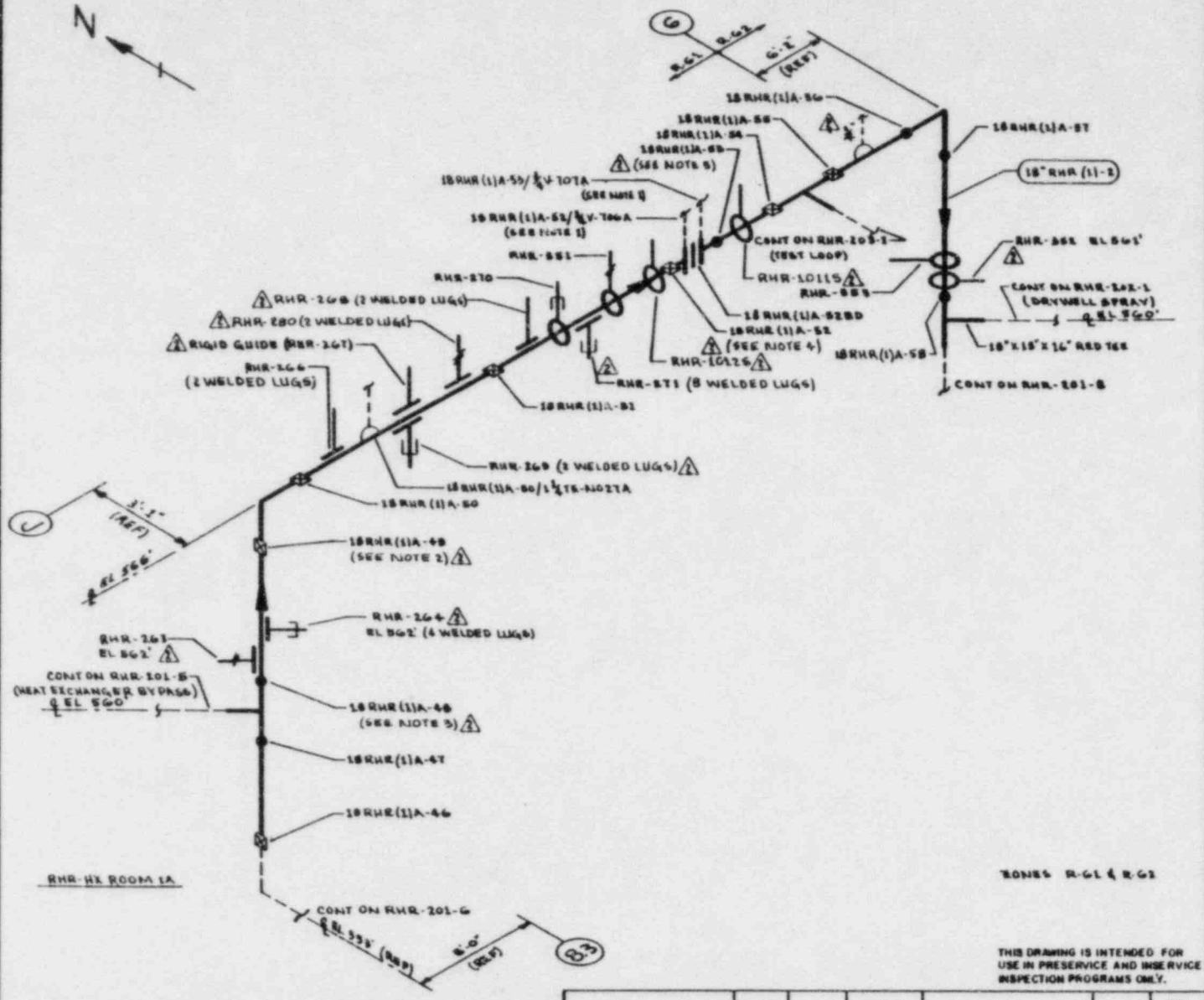
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-G | REV 1

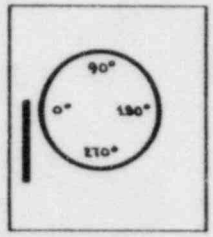


NOTES:

1. THESE ARE ¾" CONNECTIONS WITH VISUAL EXAM EXTEND TO ¾"V-706A, ¾"V-707A, ¾"V-128A & ¾"V-129A.
2. RHR-264 LUGS ARE 1⅛" FROM WELD 18 RHR (1)A-49 CENTERLINE.
3. RHR-269 LUGS ARE 1⅛" FROM WELD 18 RHR (1)A-48 CENTERLINE.
4. ACCESS TO WELD 18RHR(1)A-52 REQUIRES REMOVAL OF RHR-10126.
5. ACCESS TO WELD 18RHR(1)A-53 REQUIRES REMOVAL OF RHR-10115.

REFERENCES:

BOYER & CRAIL ISOMETRIC RHR-881-3.9 REV B



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR:	DRAWN: K. M. K.	DATE: 8-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

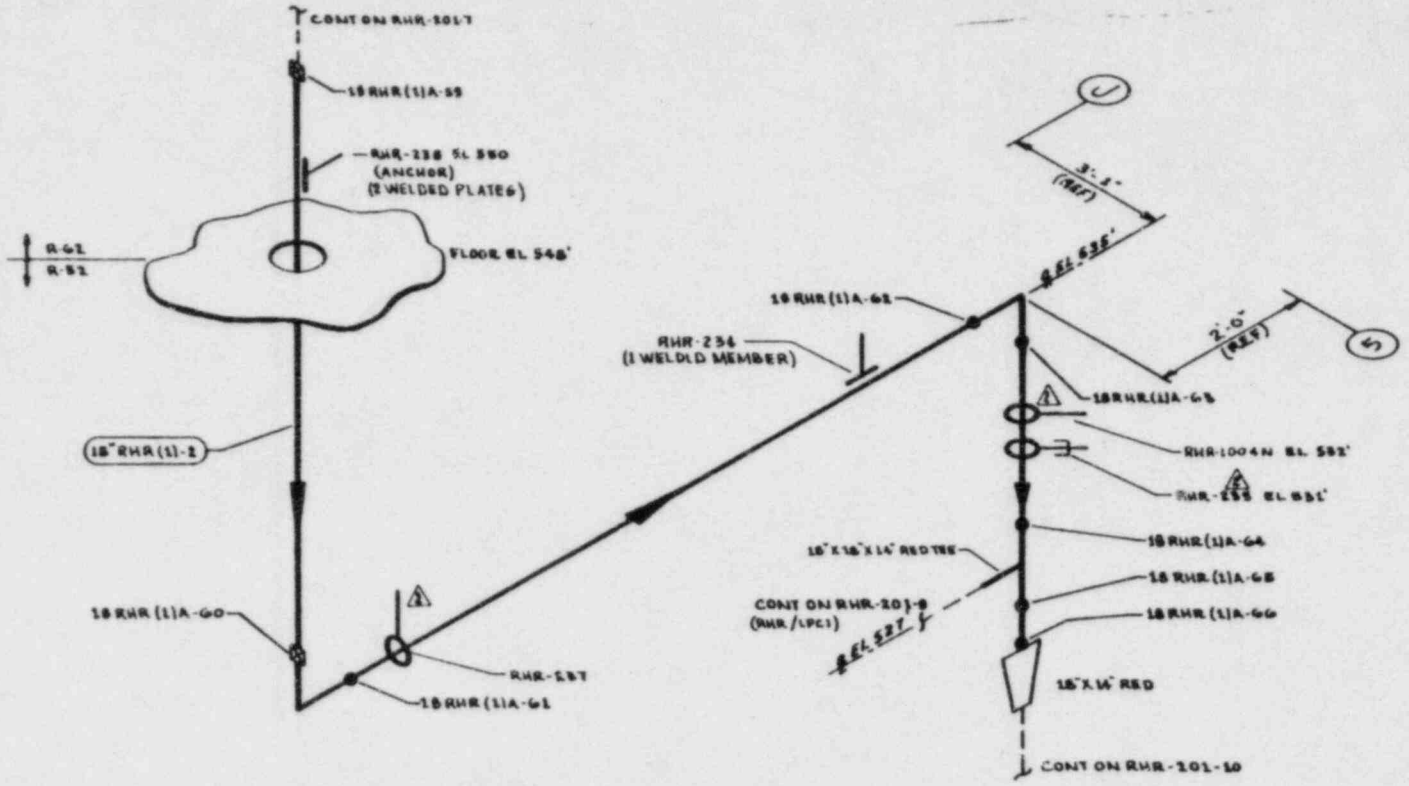
TITLE:
RHR LOOP A SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-T REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CB	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	10-15-85	REVISED AS NOTED	K.M.K.	[illegible]	[illegible]
1	12-2-81	REVISED AS NOTED	K.M.K.	[illegible]	[illegible]
0	12-27-78	ISSUED FOR USE	K.M.K.	[illegible]	[illegible]
A	9-26-78	ISSUED FOR INFORMATION ONLY	K.M.K.	[illegible]	[illegible]

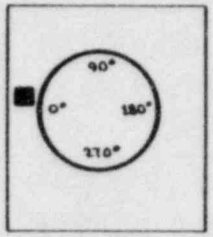


NOTES:

1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-881-3.0 REV G



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A.
DATE: 5-4-76	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	80	0.438	SA 106 GR B	C-S	N.A.

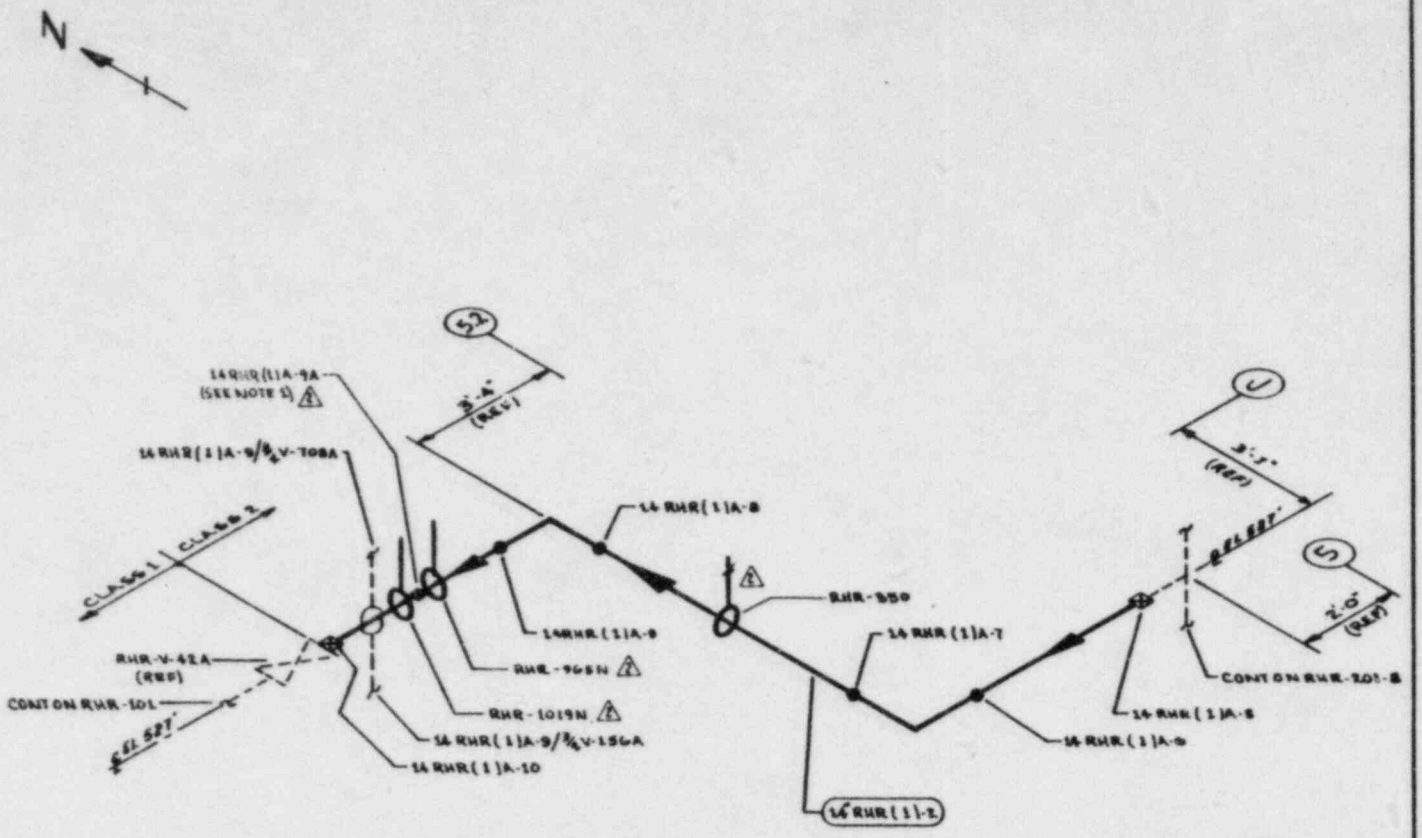
NO	DATE	REVISION	BY	CHKD	APPVD
2	9-16-81	REVISED AS NOTED	K.M.A.	ZPM	TTW
1	12-2-81	REVISED AS NOTED	K.M.A.	ZPM	TTW
0	11-23-79	ISSUED FOR USE	K.M.A.	GDK	TTW
A	5-26-79	ISSUED FOR INFORMATION ONLY	K.M.A.	GDK	TTW

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-6 REV 2



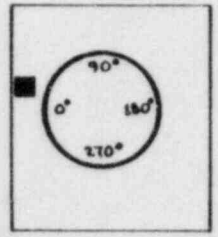
ZONE R-52

NOTES:

1. ACCESS TO WELD 14 RHR (1) A-9A REQUIRES REMOVAL OF RHR-1019N. CLAMP IS 1½ FROM WELD CENTERLINE.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-881-18.19 REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
E	9-24-85	REVISED AS NOTED	K.L.G	RMC	TMH
J	11-6-80	ADDED FIELD WELD 14 RHR (1) A-9A & AS NOTED	E.M.L	TMH	RMP
O	8-29-78	ISSUED FOR USE	R.M.L	TMH	TMH
A	5-26-78	ISSUED FOR INFORMATION ONLY	K.M.L	CMK	GMB

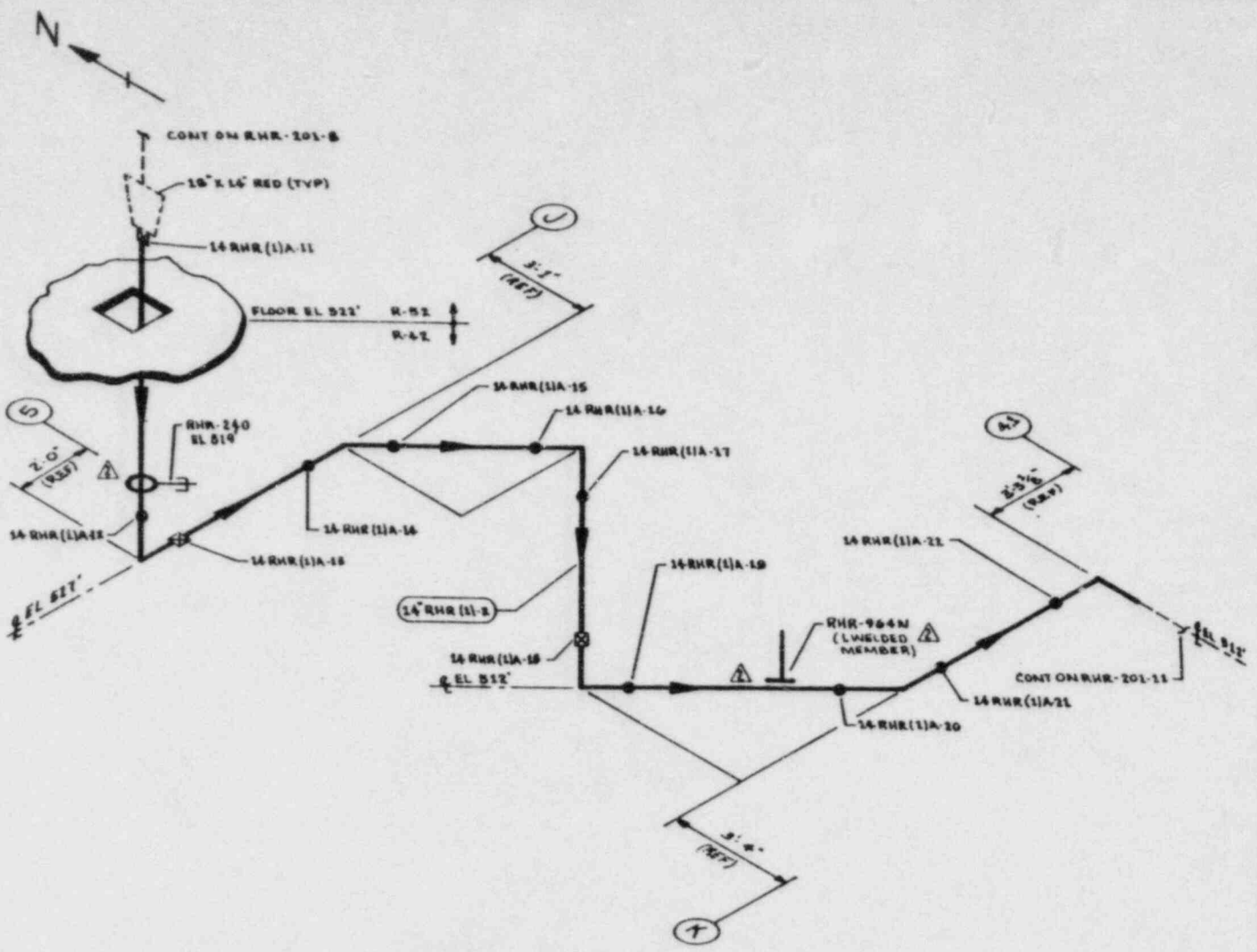
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR G.A. KUGLER | DRAWN: K.M.L | DATE: 5-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A / LPCI RETURN

DWG NO: RHR-201-B | REV 2



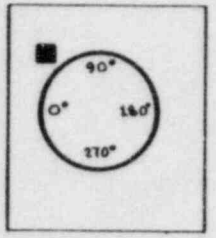
ZONES R-42 & R-52

NOTES:

REFERENCES

BOVEE & CRAIL ISOMETRICS

RHR-BB1-10-12 REV 5



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	C-S	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	REVISED AS NOTED	K.W.A.	[illegible]	[illegible]
1	11-4-81	REVISED AS NOTED	K.W.A.	[illegible]	[illegible]
0	12-19-78	ISSUED FOR USE	K.W.A.	[illegible]	[illegible]
A	5-26-78	ISSUED FOR INFORMATION ONLY	K.W.A.	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 5-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

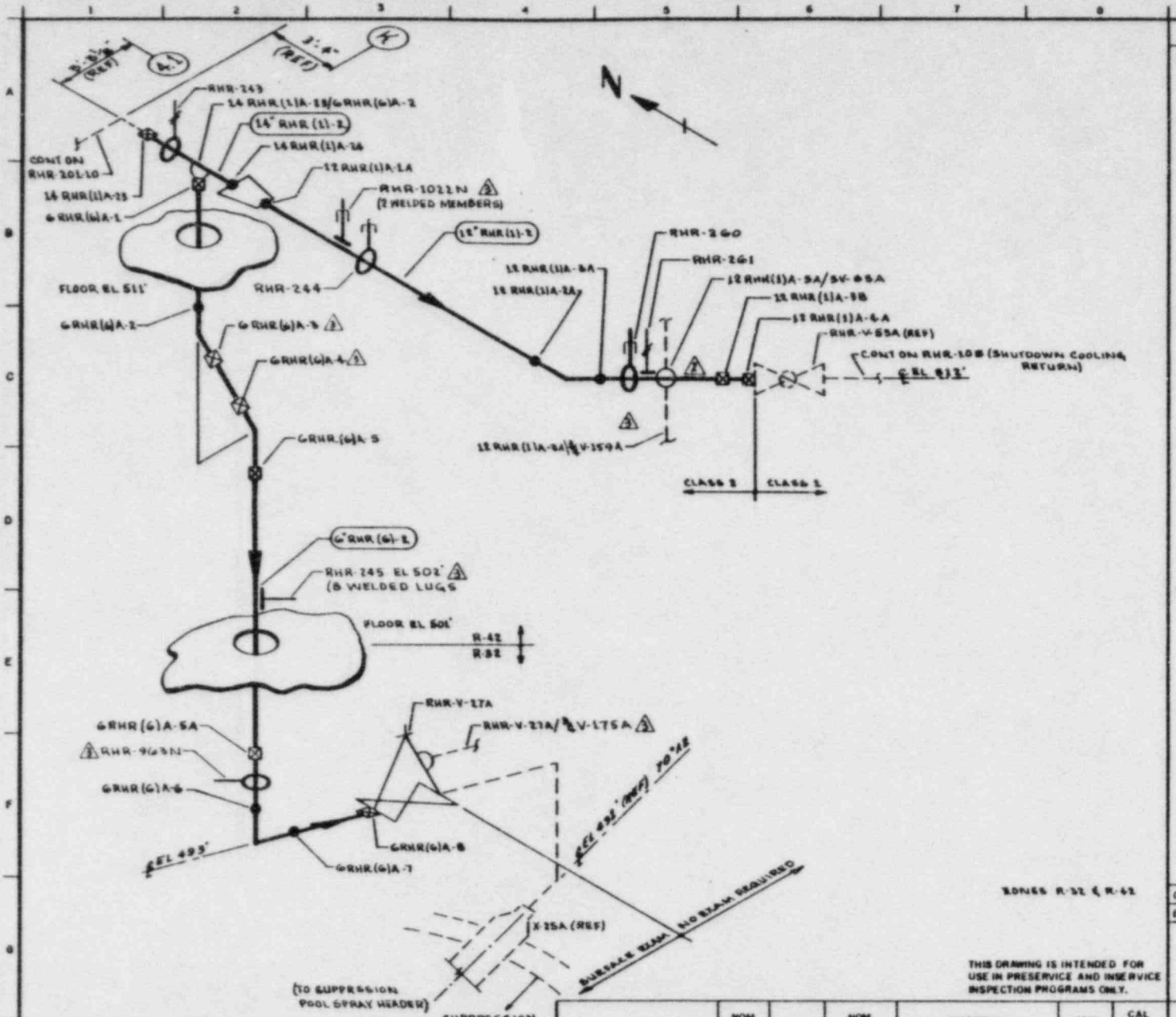
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP A

SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-10 | REV 2



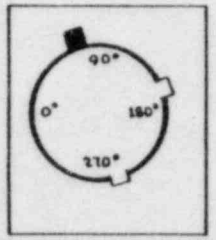
NOTES:

2

REFERENCES:

BOVER & CRAIL ISOMETRICS:

RHR-BBL-1B Rev 6
RHR-BSB-1B Rev 7



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER / DRAWN: K.M.A.	DATE: 5-8-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A SHUTDOWN COOLING RETURN & SUPPRESSION POOL SPRAY SUPPLY

DWG NO: RHR-201 L1 REV 3

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-22-85	REVISED AS NOTED	KMA	DMF	TWF
2	12-2-81	REVISED AS NOTED	KMA	DMF	TWF
1	11-6-80	REVISED AS NOTED	KMA	TWF	TWF
0	12-15-78	ISSUED FOR USE	KMA	TWF	TWF
A	5-26-78	ISSUED FOR INFORMATION ONLY	KMA	GAK	TWF

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA
12" RHR(1)-2	12	STD	0.375	SA 106 GR B	CS	NA
6" RHR(6)-2	6	40	0.280	SA 106 GR B	CS	NA

WNP-02
INTERVAL: 01
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: SIM SPLY TO RHR HX1A

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
14RHR(1)A-1									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-4									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-157(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-157									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-159									
	STRUT	IWF	F-X	VT3H				F	
RHR-158(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-158									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 494

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-160									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3937
18RHR(1)A-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-161									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-162									
	STRUT	IWF	F-X	VT3H				F	
RHR-163									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)A-8									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
10RHR(1)A-1									
	TEE TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
10RHR(1)A-2									
	PIPE TO CAP	N/A	N/A	SUR				0	
			N/A	VOL				0	
18RHR(1)A-8/6RHR(7)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
18RHR(1)A-9									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-10									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-11									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-12									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-13									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-164									
	STRUT	IWF	F-X	VT3H				F	
RHR-165									
	STRUT	IWF	F-X	VT3H				F	
RHR-188(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-188									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)A-14									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-15									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-16									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
18RHR(1)A-17									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-174									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)A-18									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-97EN									
	ANCHOR	IWF	F-X	VT3H				F	
18RHR(1)A-19									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-606									
	STRUT	IWF	F-X	VT3H				F	
RHR-605									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)A-20									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-21									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-22									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-22A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-604									
	SPRING	IWF	F-X	VT3H				F	

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DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-603									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 4470/4497
18RHR(1)A-23									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-24									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-25									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-26									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-601									
	STRUT	IWF	F-X	VT3H				F	W/3 WELDED SADDLES.
18RHR(1)A-27									
	PIPE TO VLV	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-28									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-600									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)A-29									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-30									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-599									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3906
18RHR(1)A-31									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-32									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1000N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3931
18RHR(1)A-32A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1001N(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-1001N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 4410/2785
RHR-598									
	SPRING	N/A	N/A	VT3H				F	
18RHR(1)A-33									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-34									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-35									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-36									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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DESCRIPTION: SIM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)A-37									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-2									
	PIPE TO NOZZLE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
6RHR(7)A-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-187									
	SPRING	IWF	F-X	VT3H				F	
6RHR(7)A-2									
	PIPE TO REDUCER	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(7)A-3									
	REDUCER TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(7)A-4									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(7)A-5									
	EL TO ORIFICE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-149									
	STRUT	IWF	F-X	VT3H				F	
RHR-148									
	BOX	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-147									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N E628/W607
RHR-146									
	SPRING	IWF	F-X	VT3H				F	
RHR-145									
	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 342
RHR-144									
	SPRING	IWF	F-X	VT3H				F	
RHR-971N									
	ANCHOR	IWF	F-X	VT3H				F	
RHR-142									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N W354/E355
18RHR(11)A-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-363									
	SPRING	IWF	F-X	VT3H				F	
RHR-361									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2786
RHR-362(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-362									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3927/3952
18RHR(11)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(11)A-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-357									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 9951
RHR-360									
	SPRING	IWF	F-X	VT3H				F	
RHR-359									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2346
RHR-358									
	BOX	IWF	F-X	VT3H				F	
18RHR(11)A-5A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-6									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-7									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-354(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-354									
	SPRING	IWF	F-X	VT3H				F	
18RHR(11)A-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(11)A-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-355									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4483
RHR-356									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 13028
18RHR(11)A-12									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-13									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)A-14									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-3									
	NOZZLE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)A-6									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-38									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-367(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-367									
	SPRING	IWF	F-X	VT3H				F	
RHR-368									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)A-39									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-40									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-41									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-42									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-43									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-44									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-365(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-365									
	STRUT	IWF	F-X	VT3H				F	
RHR-366									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)A-45									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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SYSTEM OR COMPONENT: RHR(1)-2
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)A-46									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-47									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-48									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-263									
	SPRING	IWF	F-X	VT3H				F	
RHR-264									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 4428
18RHR(1)A-49									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-50									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-266									
	BOX	IWF	F-X	VT3H				F	
RHR-267									
	BOX	IWF	F-X	VT3H				F	
RHR-269									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2385
RHR-280									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)A-51									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-268									
	BOX	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-270									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 362/616
RHR-271									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3885/3941
RHR-351									
	SPRING	IWF	F-X	VT3H				F	
RHR-1012S									
	PIPE CLAMP	C-E-2	F-X	VT3H				F	
18RHR(1)A-52									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-53									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1011S									
	PIPE CLAMP	C-E-2	F-X	VT3H				F	
18RHR(1)A-54									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-55									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-56									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-57									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-353									
	STRUT	IWF	F-X	VT3H				F	
RHR-352									
	STRUT	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
18RHR(1)A-58									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-59									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-238(W)									
	2 WELDED SADDLE	C-C	C3.40	SUR				F	
RHR-238									
	ANCHOR	IWF	F-X	VT3H				F	
18RHR(1)A-60									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-61									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-237									
	STRUT	IWF	F-X	VT3H				F	
RHR-234									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)A-62									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-63									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1004N									
	STRUT	IWF	F-X	VT3H				F	
RHR-235									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 1462
18RHR(1)A-64									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
18RHR(1)A-65									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)A-66									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-5									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-350									
	SPRING	IWF	F-X	VT3H				F	
14RHR(1)A-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-965N									
	ANCHOR	IWF	F-X	VT3H				F	
14RHR(1)A-9A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1019N									
	STRUT	IWF	F-X	VT3H				F	
14RHR(1)A-10									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: SIM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
14RHR(1)A-11									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-240									
	BOX	IWF	F-X	VT3H				F	
14RHR(1)A-12									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHP(1)A-13									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-14									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-15									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-16									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHP(1)A-17									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-18									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-19									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-964N									
	ANCHOR	IWF	F-X	VT3H				F	W/1 WELDED SADDLE.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RHR-201

SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
14RHR(1)A-20									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-21									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-22									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)A-23									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-243									
	SPRING	IWF	F-X	VT3H				F	
14RHR(1)A-23/ERHR(6)A-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
14RHR(1)A-24									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)A-1A									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1022N									
	PSA-35 SN(2)	IWF	F-X	VT3H				UVY2	S/N N3007/S3008
RHR-244									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY2	S/N 6239
12RHR(1)A-2A									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)A-3A									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

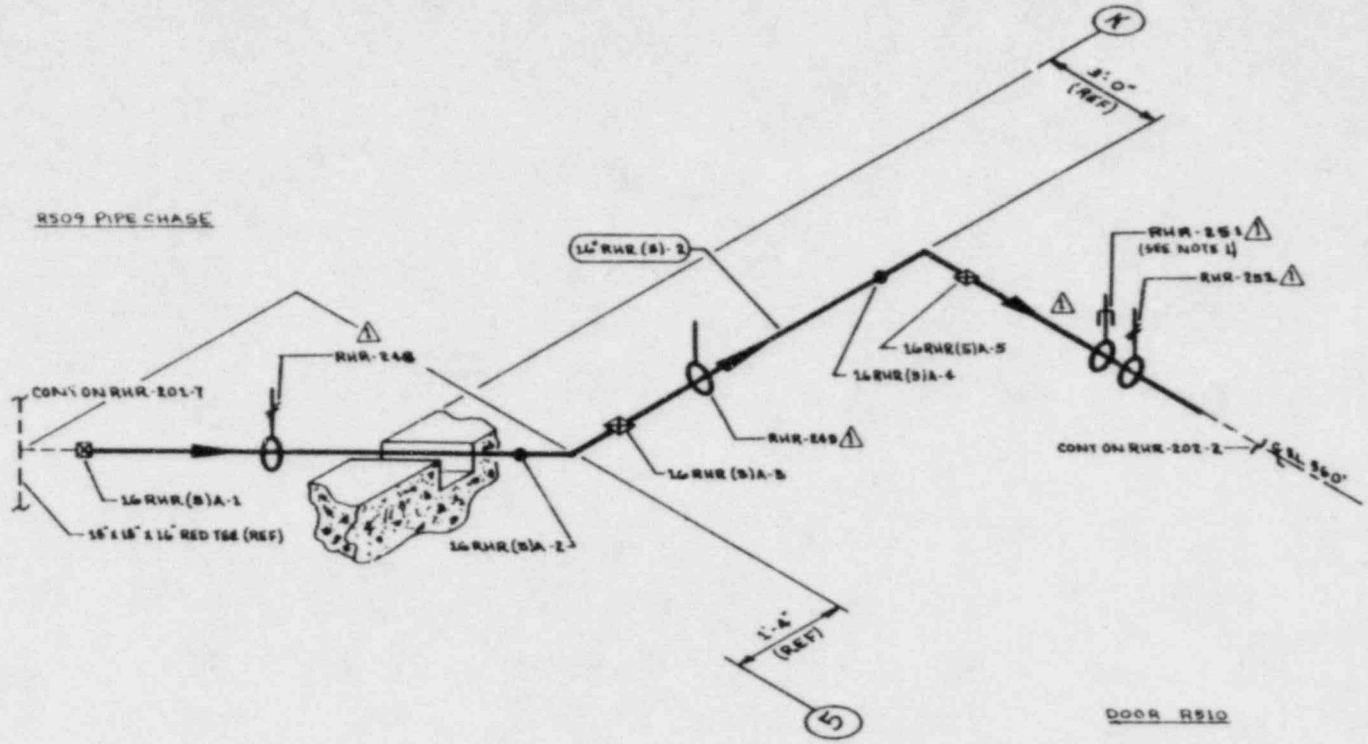
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-260									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 716
RHR-261									
	SPRING	IWF	F-X	VT3H				F	
12RHR(1)A-3B									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)A-4A									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
6RHR(6)A-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)A-2									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)A-3									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)A-4									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)A-5									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-245(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-245									
	BOX	IWF	F-X	VT3H				F	
6RHR(6)A-5A									
	PIPE TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-963N									
	BOX	IWF	F-X	VT3H				F	
GRHR(6)A-6									
	PIPE TO EL	N/A	N/A	SUR				O	
			N/A	VOL				O	
GRHR(6)A-7									
	EL TO PIPE	N/A	N/A	SUR				O	
			N/A	VOL				O	
GRHR(6)A-8									
	PIPE TO VALVE	N/A	N/A	SUR				O	
			N/A	VOL				O	
RHR-247									
	SPRING	IWF	F-X	VT3H				F	
RHR-PB-201(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-201(H)									
	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

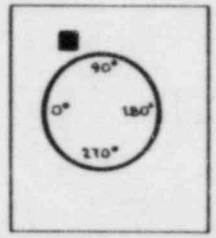


NOTES:

1. STAMPING ON CLAMP IS RHR-912N.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-853-1.4 REV 5



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K. M. A.	DATE: 5-12-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR (S)-2	16	40	0.500	SA 106 GR B	CS	NA

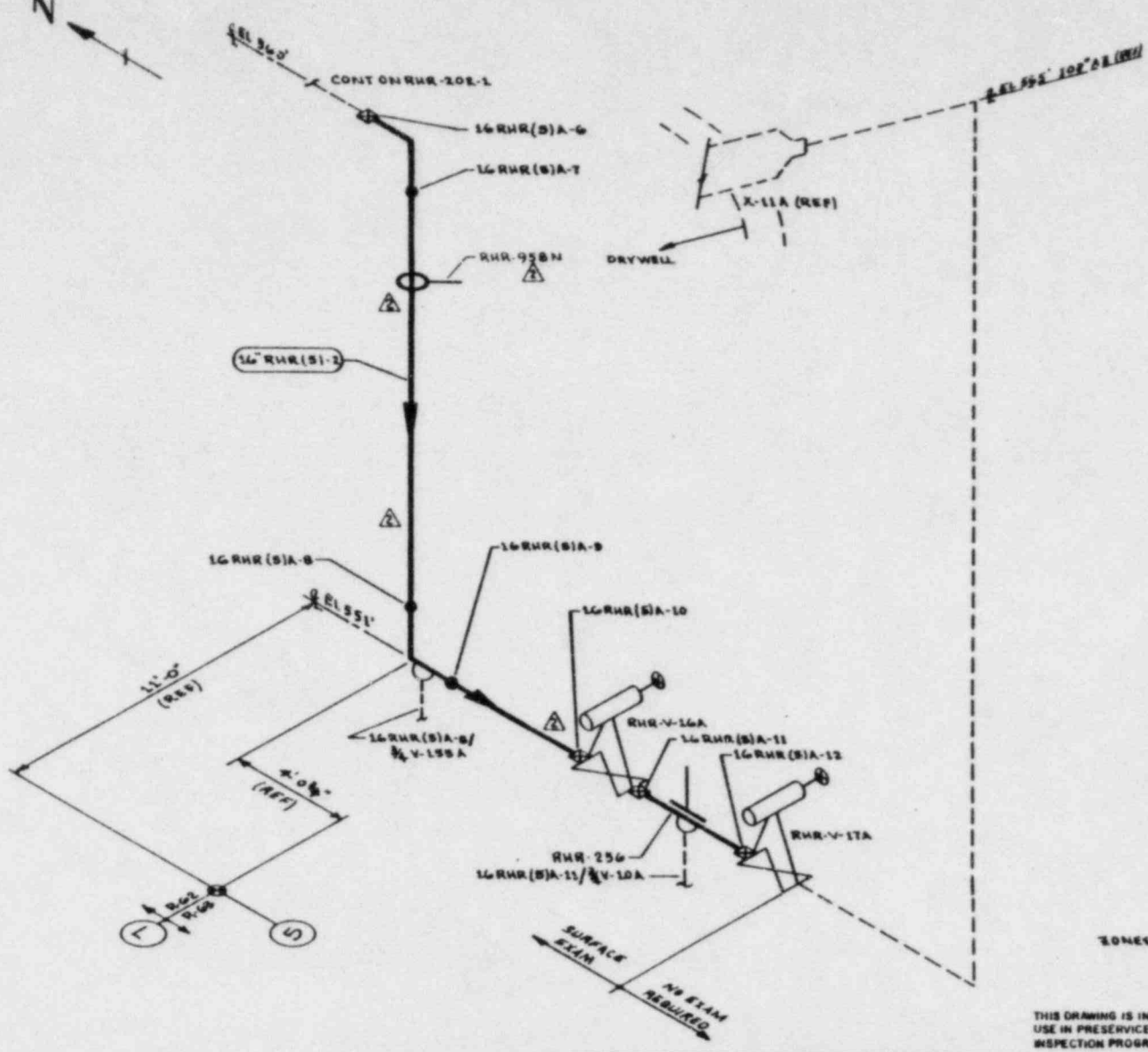
NO	DATE	REVISION	BY	CHKD	APPVD
1	9-28-88	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
0	11-22-79	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
DRYWELL SPRAY SUPPLY

DWG NO: RHR-202-1 REV 1

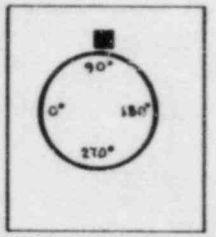


NOTES:

REFERENCES:

BOVES & CRAIL ISOMETRICS

RHR-SSS-1-4 REV 6
RHR-SSS-5-6 REV 4



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR (S)-2	16	40	0.500	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
E	9-26-88	REVISED AS NOTED	KMA	[illegible]	TFH
1	12-2-81	REVISED AS NOTED	KMA	MPR	TFH
0	11-17-78	ISSUED FOR USE	KMA	MPR	TFH
A	9-12-78	ISSUED FOR INFORMATION ONLY	KMA	JBC	TFH

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.A. | DATE: 8-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
DRYWELL SPRAY SUPPLY

DWG NO: RHR-202-2 | REV 2

WNP-02
INTERVAL: 01
DRAWING NO. RHR-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 16RHR(5)-2
DESCRIPTION: DRYWELL SPRAY SUP"A"

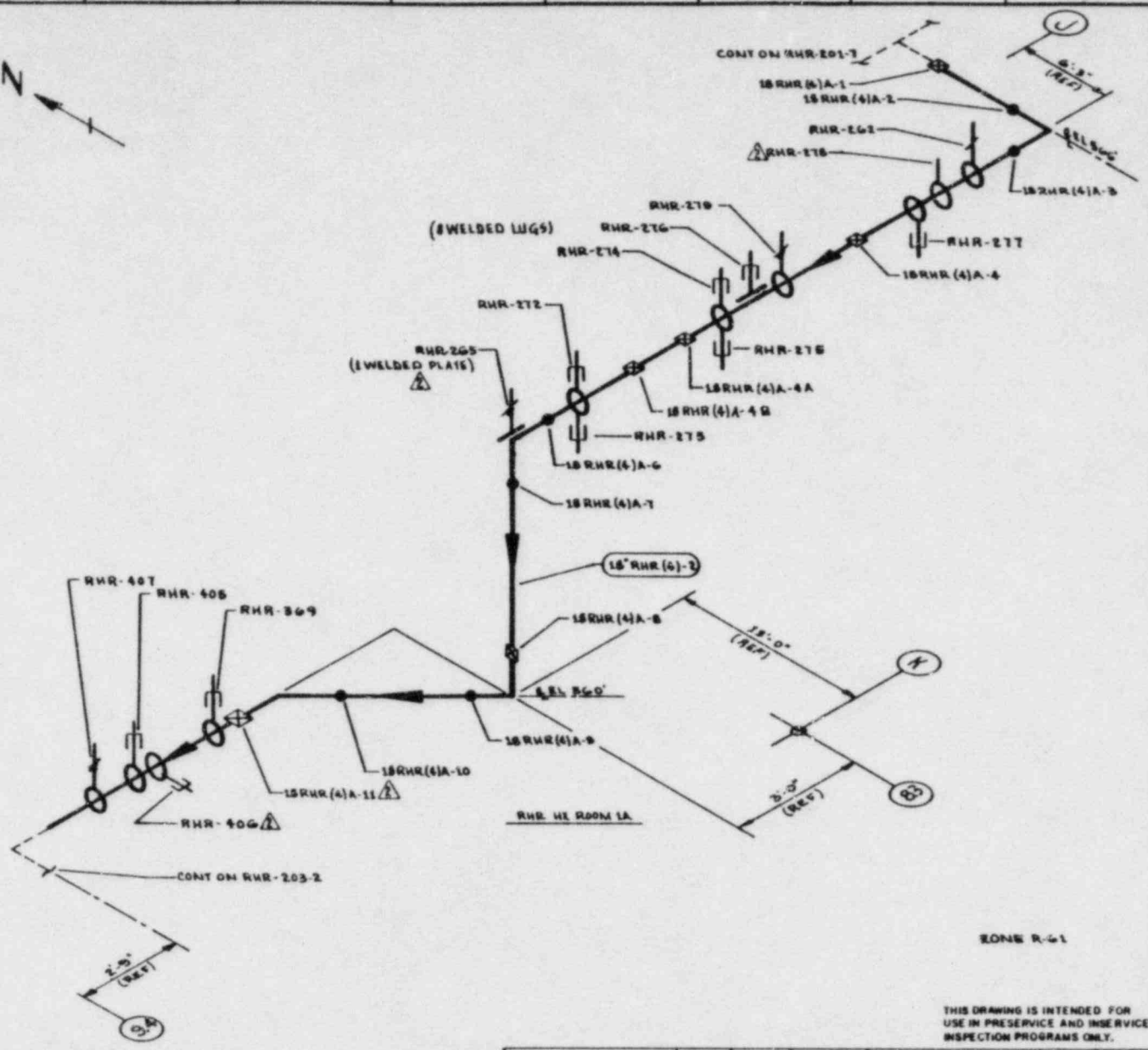
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
16RHR(5)A-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-248									
	SPRING	IWF	F-X	VT3H				F	
16RHR(5)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-249									
	BOX	IWF	F-X	VT3H				F	
16RHR(5)A-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-251									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2387
RHR-252									
	SPRING	IWF	F-X	VT3H				F	
16RHR(5)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-958N									
	ANCHOR	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RHR-202

SYSTEM OR COMPONENT: 16RHR(5)-2
DESCRIPTION: DRYWELL SPRAY SUP"A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
16RHR(5)A-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-10									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)A-11									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-256									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY3	S/N 10730
16RHR(5)A-12									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-257									
	SPRING	IWF	F-X	VT3H				F	
RHR-PB-202(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				R	
RHR-PB-202(H)									
	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

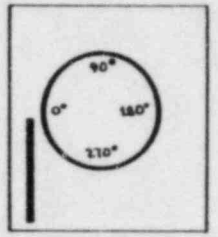


NOTES:

REFERENCES:

BOVES & CRAIL ISOMETRICS

RHR-854-1.5 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: V. N. A.	DATE: 5-12-78

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	30	0.438	SA 106 GR B	CS	N.A.

WNP-2

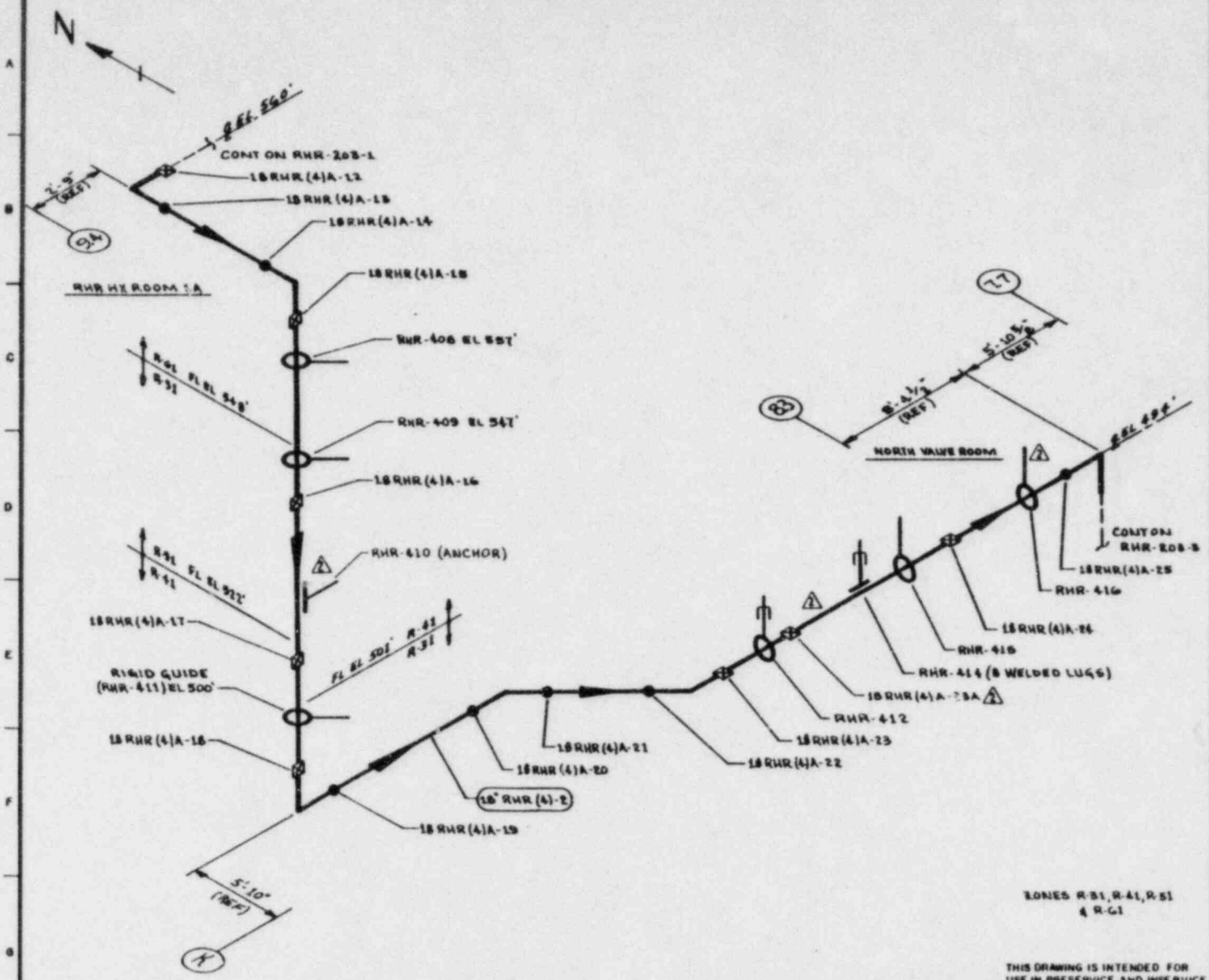
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP A TEST LINE

DWG NO: RHR-203-1 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-24-80	REVISED AS NOTED			
1	11-5-80	REVISED AS NOTED			
0	12-29-79	ISSUED FOR USE			
A	9-12-78	ISSUED FOR INFORMATION ONLY			



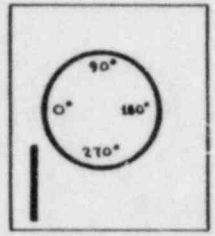
NOTES:

1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-884-L-5 REV 4
RHR-884-G-11 REV 7



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	80	0.438	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-24-98	REVISED AS NOTED	KMcA	MPS	TFH
1	12-2-91	REVISED AS NOTED	KMcA	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	9-15-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

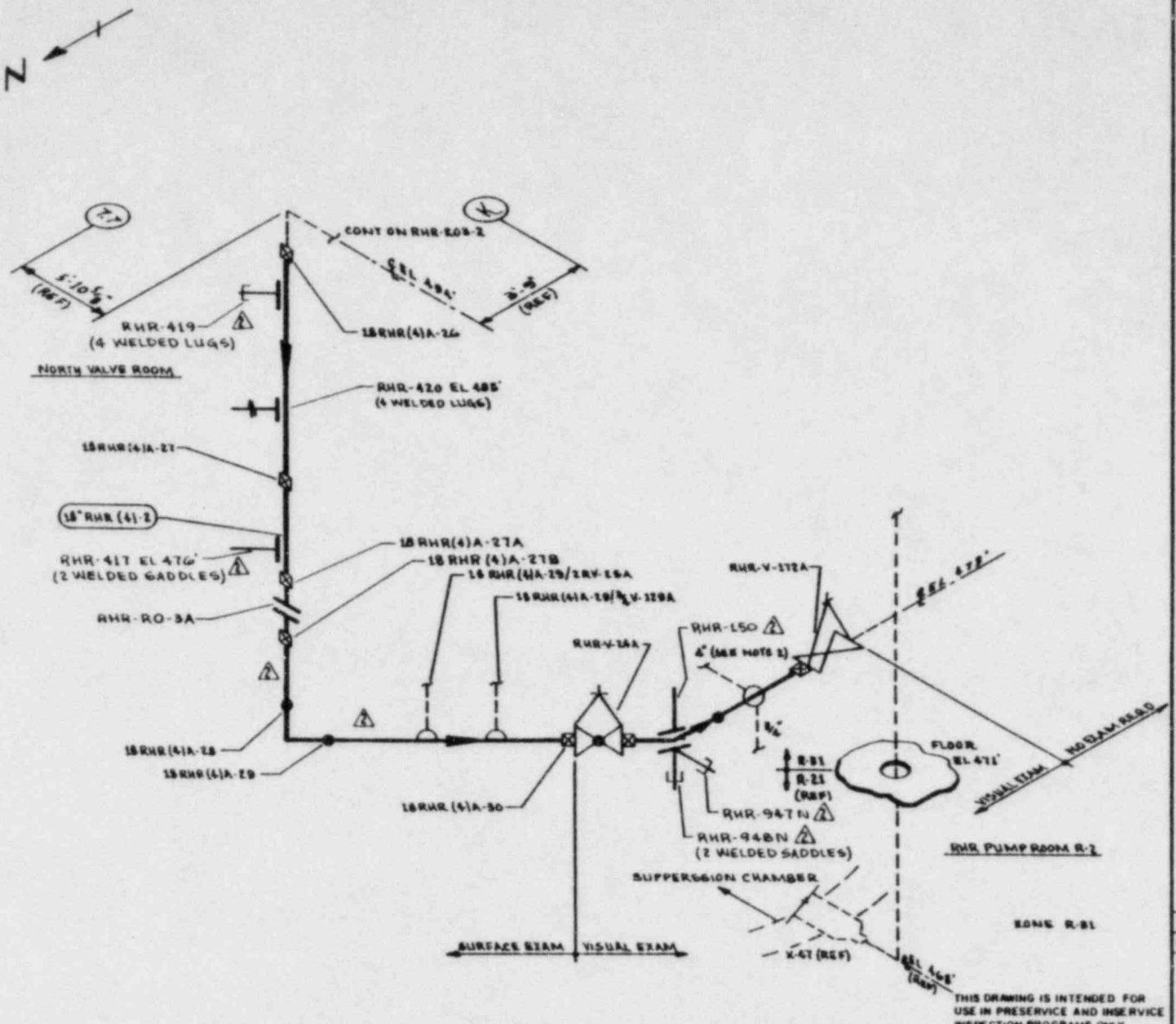
ENGR: GA KUGLER | DRAWN: KMcA | DATE: 5-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A TEST LINE

DWG NO: RHR-203-2 | REV 2



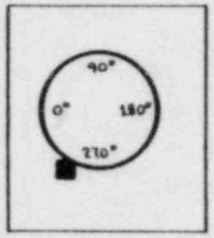
NOTES:

1. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXT. NO VISUAL LEAKAGE EXAM THROUGH OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
2. EXTEND VISUAL LEAKAGE EXAM THROUGH RHR-V-11A.
3. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMP. THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOYES & CRAIL ISOMETRICS

RHR-B54-11.16 REV 9



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	30	0.438	SA 106 GR B	C.S	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-24-85	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	11-5-80	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-18-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUHLER | DRAWN: K.M.A. | DATE: 5-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP A TEST LINE

DWG NO: RHR-203-3 | REV 2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP-02
INTERVAL: 01
DRAWING NO. RHR-203

ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(4)A-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-262									
	SPRING	IWF	F-X	VT3H				F	
RHR-278									
	BOX	IWF	F-X	VT3H				F	
RHR-277									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 509
18RHR(4)A-4									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-279									
	SPRING	IWF	F-X	VT3H				F	
RHR-276									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N S2796/N2576
RHR-274									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2590
RHR-275									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2379
18RHR(4)A-4A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-4B									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-272									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 258
RHR-273									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX2	S/N 508
18RHR(4)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-265									
	SPRING	IWF	F-X	VT3H				F	W/1 WELDED PLATE.
18RHR(4)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-369									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 646
RHR-406									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2588
RHR-405									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4420
RHR-407									
	SPRING	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(4)A-12									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18PHR(4)A-13									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-14									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-15									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-408									
	STRUT	IWF	F-X	VT3H				F	
RHR-409									
	BOX	IWF	F-X	VT3H				F	
18RHR(4)A-16									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-410(W)									
	WELDED SADDLE	C-C	C3.40	SUR				F	
RHR-410									
	ANCHOR	IWF	F-X	VT3H				F	
18RHR(4)A-17									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-411									
	BOX	IWF	F-X	VT3H				F	
18RHR(4)A-18									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(4)A-19									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-20									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-21									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-22									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-23									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-412									
	STRUT	IWF	F-X	VT3H				F	
18RHR(4)A-23A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-414									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N N2353/S2586
RHR-415									
	STRUT	IWF	F-X	VT3H				F	
18RHR(4)A-24									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-416									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	S/N T9906/B9934
18RHR(4)A-25									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

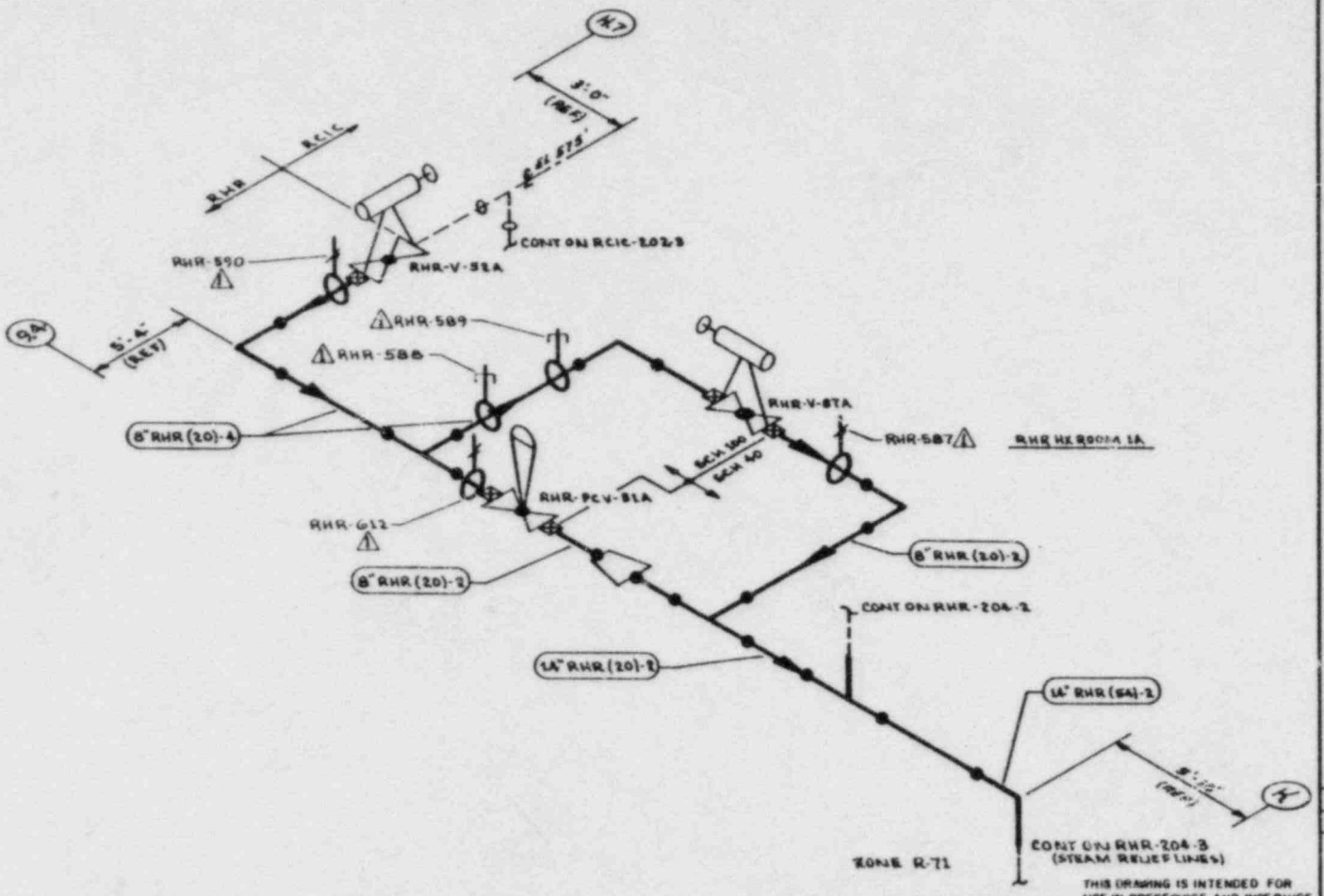
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(4)A-26									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-419(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-419									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N E4432/W5744
RHR-420(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-420									
	SPRING	IWF	F-X	VT3H				F	
18RHR(4)A-27									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-417									
	STRUT	IWF	F-X	VT3H				F	
18RHR(4)A-27A									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-27B									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-28									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-29									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)A-30									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 19RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-150	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	SPRING ATTACHED
			F-X	VT3H				F	
RHR-948N(W)	2 WELDED SADDLE	C-C	C3.40	SUR				F	
RHR-948N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N T2789/B2580
RHR-947N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3905/3882
RHR-952N	PSA-3 SNUBBER	F-B	F-X	VT3H				UVX3	S/N
RHR-977N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-986N	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	
RHR-974N	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	
RHR-946N	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N
RHR-PB-203(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-203(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

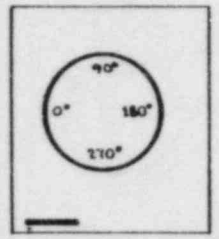


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARA-GRAPH IWA-5000.

REFERENCES:

BOYCE & GRAIL ISOMETRIC
RHR-BGT-24.25 REV 7



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K. M. A.
	DATE: 8-24-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RHR (20)-4	8	100	0.594	SA 106 GR B	CS	NA
8" RHR (20)-2	8	40	0.322	SA 106 GR B	CS	NA
14" RHR (20)-2	14	STD	0.375	SA 106 GR B	CS	NA
14" RHR (24)-2	14	STD	0.375	SA 106 GR B	CS	NA

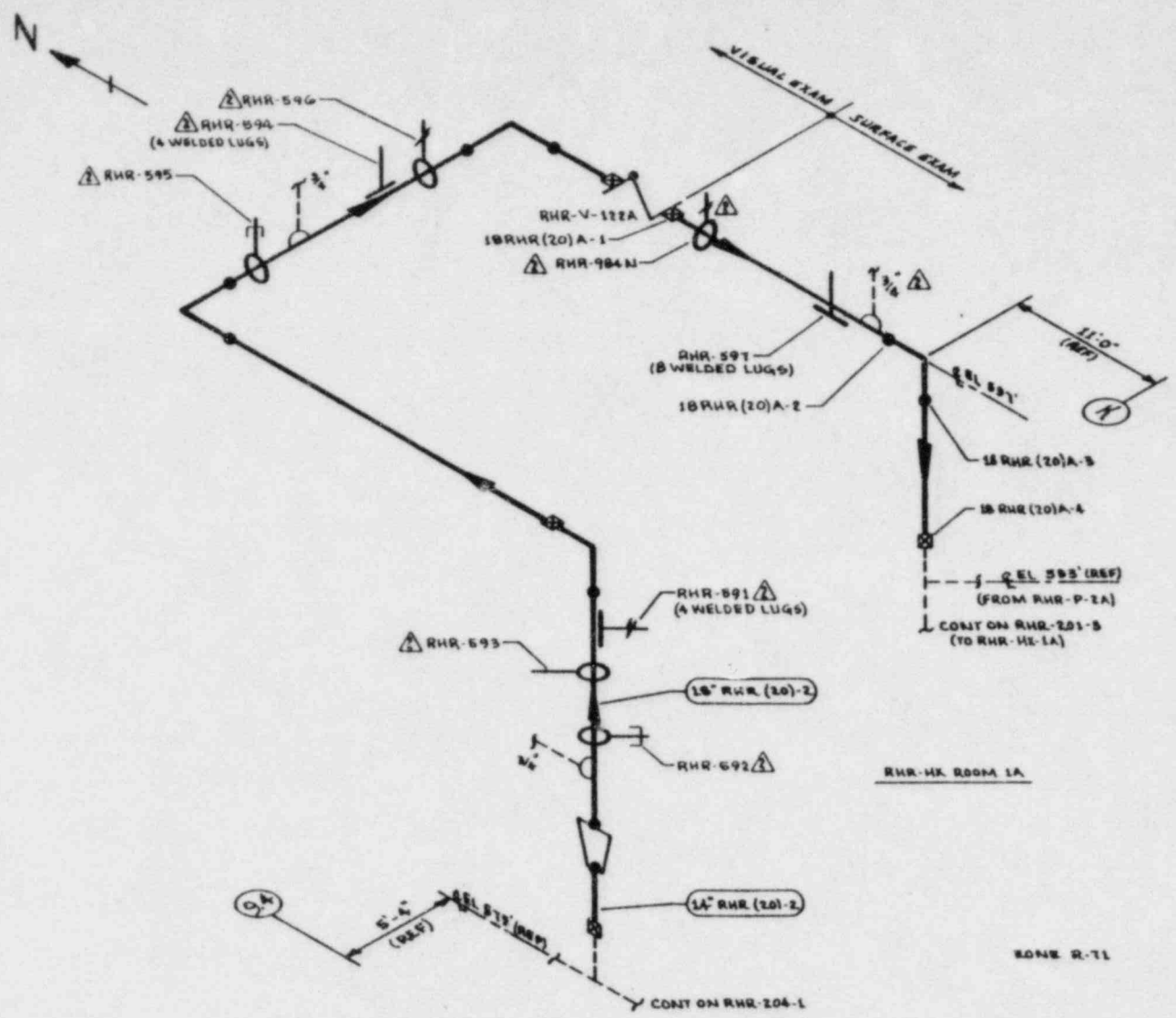
NO	DATE	REVISION	BY	CHKD	APPVD
1	9-22-83	REVISED AS NOTED	K.M.A.	GAK	GAK
0	11-17-78	ISSUED FOR USE	K.M.A.	GAK	GAK
A	9-11-78	ISSUED FOR INFORMATION ONLY	K.M.A.	GAK	GAK

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A
RCIC STEAM SUPPLY TO RHR-HX-1A

DWG NO: RHR-204-1 REV 1



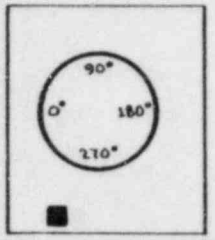
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. SCAFFOLDING IS REQUIRED.

(1)

REFERENCES:

BOVER & CRAIL ISOMETRIC
RHR-BGT-28-30 REV 9



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.L.	DATE: 5-24-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (20)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR (20)-2	18	30	0.438	SA 106 GR B	CS	NA

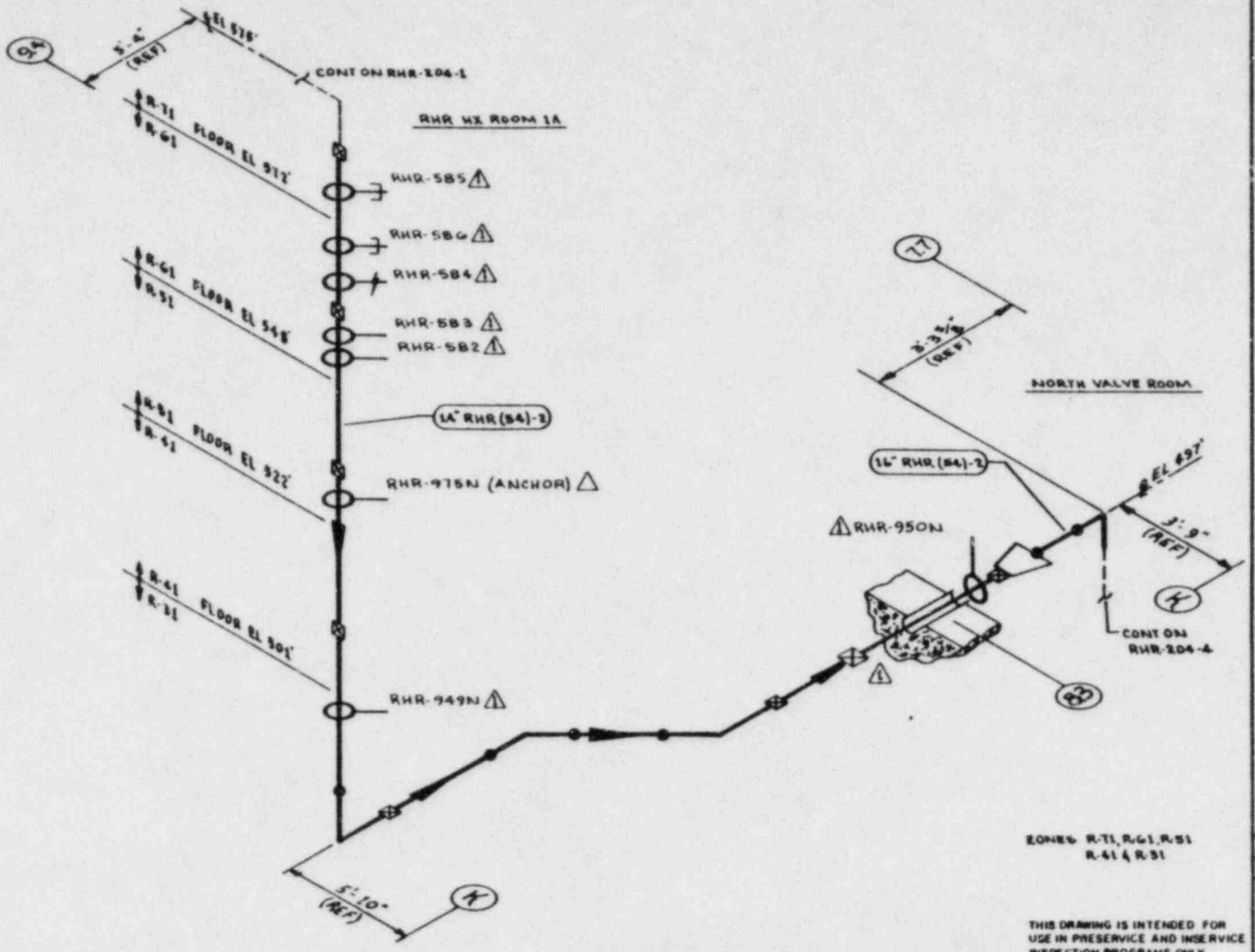
NO	DATE	REVISION	BY	CHKD	APPVD
E	9-26-83	REVISED AS NOTED	K.M.L.	GMK	TFH
D	12-2-81	REVISED AS NOTED	K.M.L.	GMK	TFH
C	11-25-81	ISSUED FOR USE	K.M.L.	GMK	TFH
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.L.	GMK	TFH

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RCIC STEAM SUPPLY TO RHR-HX-1A

DWG NO: RHR-204-2 REV 2

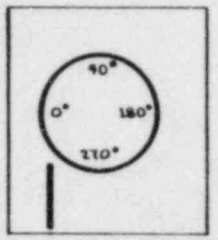


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-BGT-31.37 REV 4



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (S4)-2	14	STD	0.375	SA 106 GR B	CS	N.A.
16" RHR (S4)-2	16	40	0.500	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-14-83	REVISED AS NOTED	K.M.L.	DMC	TFW
0	12-15-78	ISSUED FOR USE	K.M.L.	[illegible]	[illegible]
A	9-11-78	ISSUED FOR INFORMATION ONLY	K.M.L.	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

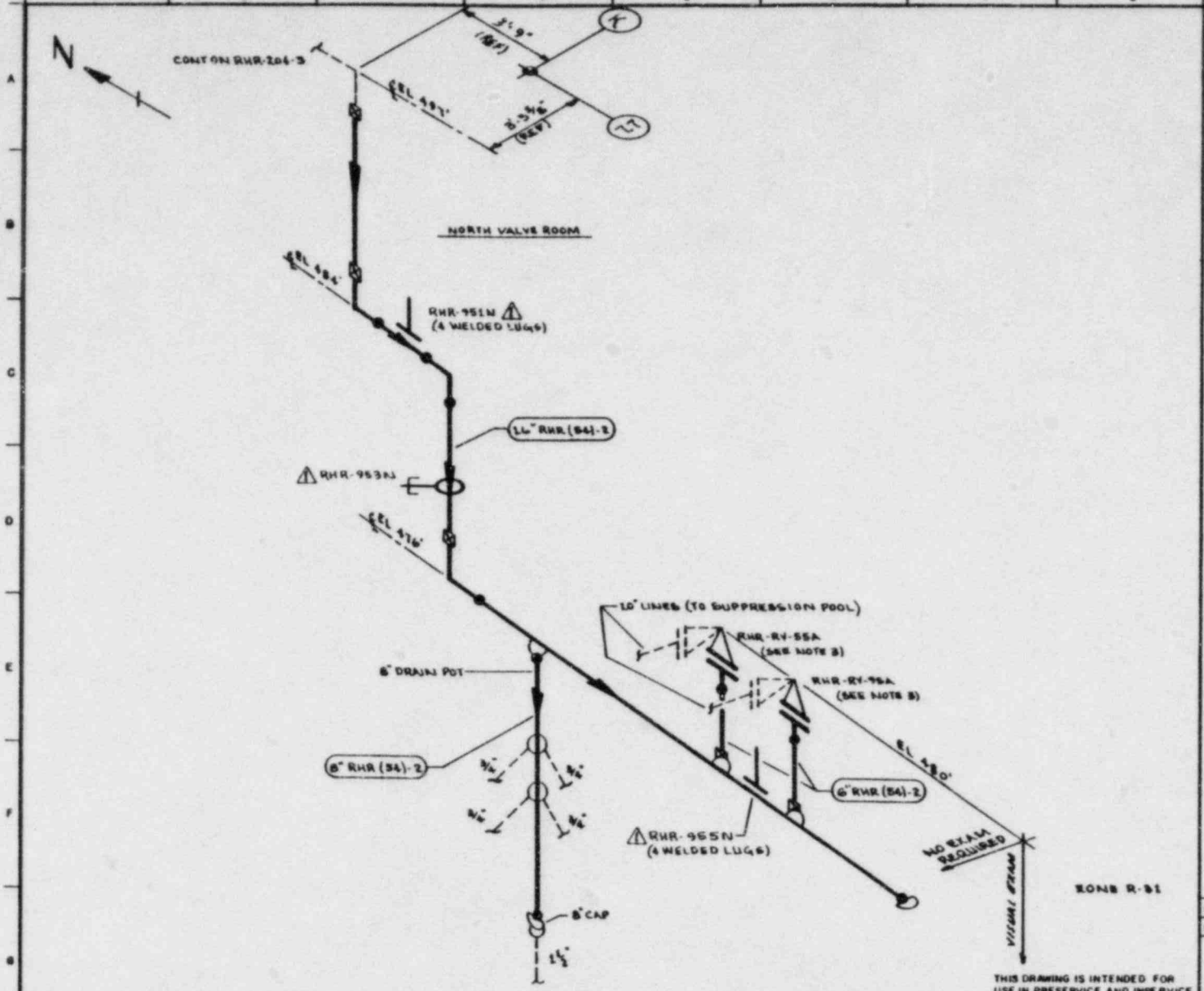
ENGR: G.A. KUGLER | DRAWN: K.M.L. | DATE: 5-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RCIC STEAM RELIEF LINES TO SUPPRESSION POOL

DWG NO: RHR-204-3 | REV 1



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

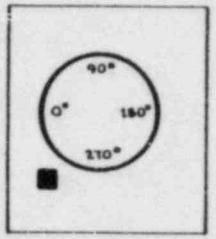
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE TWO LINES TO THE SUPPRESSION POOL FROM RHR-RV-55A & RHR-RV-95A ARE OPEN ENDED & THEREFORE EXEMPT FROM EXAM.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-B&C-38.39	REV G
RHR-B&C-40.44	REV G



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR (54)-2	16	40	0.500	SA 106 GR B	CS	NA
8" RHR (54)-2	8	40	0.322	SA 106 GR B	CS	NA
6" RHR (54)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-28-83	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN K-M-C-A | DATE: 5-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RCIC STEAM RELIEF LINES
TO SUPPRESSION POOL

DWG NO: RHR-204-4 | REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(20)2
DESCRIPTION: RCIC STM-RHR HX-1A

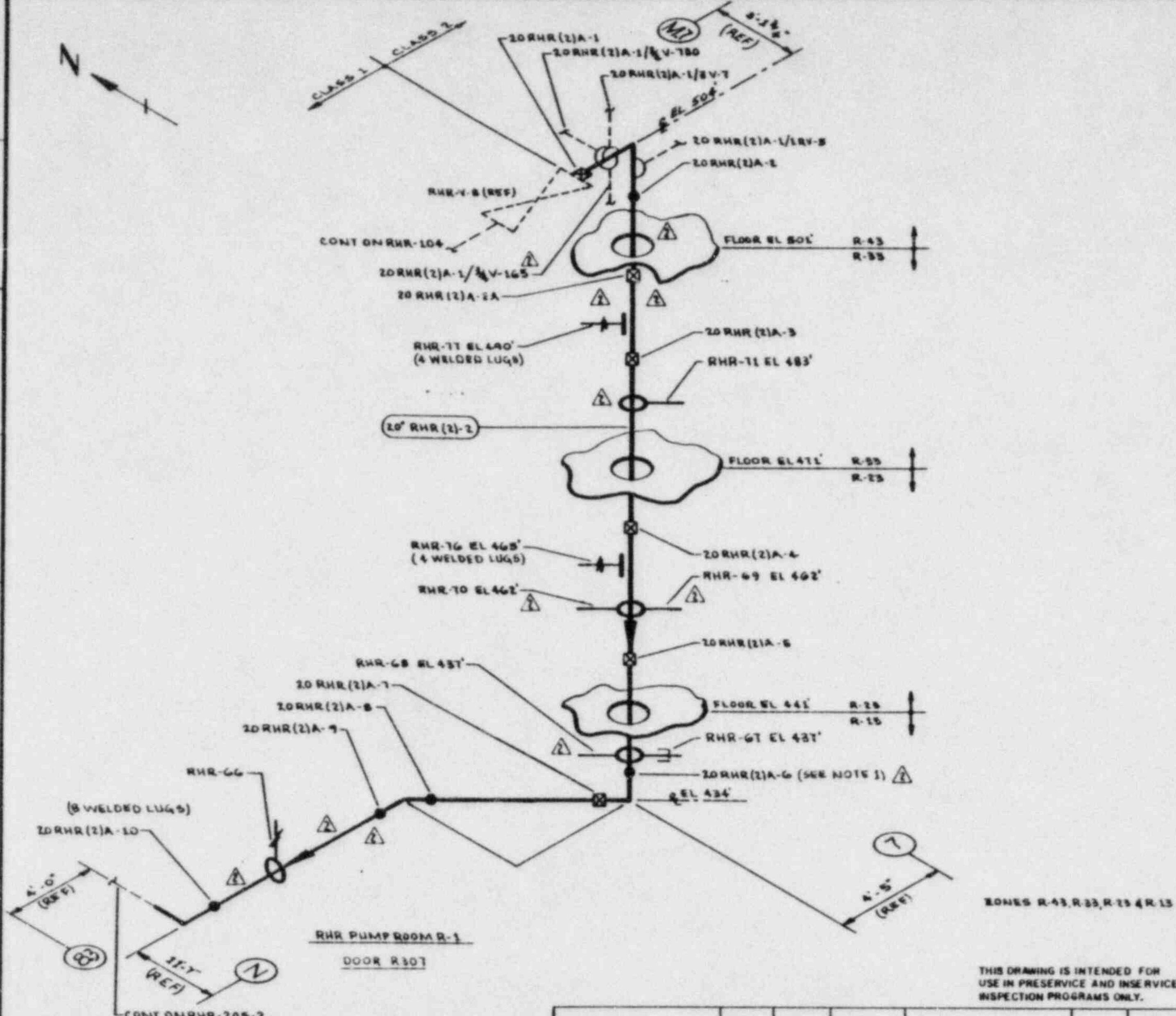
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-590	SPRING	N/A	N/A	N/A				OT	
RHR-612	SPRING	N/A	N/A	N/A				OT	
RHR-588	PSA-3 SN(2)	N/A	N/A	N/A				OT	S/N T2792/B2347
RHR-589	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 4493
RHR-587	SPRING	N/A	N/A	N/A				OT	
RHR-592	PSA-1/2 SNUBBER	N/A	N/A	N/A				OT	S/N 2782
RHR-593	STRUT	N/A	N/A	N/A				OT	
RHR-591	SPRING	N/A	N/A	N/A				OT	
RHR-595	PSA-1 SNUBBER	N/A	N/A	N/A				OT	S/N 3888
RHR-594	STRUT	N/A	N/A	N/A				OT	
RHR-596	SPRING	N/A	N/A	N/A				OT	
18RHR(20)A-1	VALVE TO PIPE	C-F-2	C5.51	SUR				F	
RHR-984N	SPRING	IWF	F-X	VT3H				F	
RHR-597(E)	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-597	STRUT	IWF	F-X	VT3H				F	
18RHR(20)A-2	PIPE TO EL	C-F-2	C5.51	SUR				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(20)2
DESCRIPTION: RCIC STM-RHR HX-1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(20)A-3	EL TO PIPE	C-F-2	C5.51	SUR				F	
18RHR(20)A-4	PIPE TO TEE	C-F-2	C5.51	SUR				F	
RHR-585	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 9929
RHR-586	PSA-3 SNUBBER	N/A	F-X	N/A				OT	S/N 3894
RHR-584	SPRING	N/A	N/A	N/A				OT	
RHR-583	STRUT	N/A	N/A	N/A				OT	
RHR-582	STRUT	N/A	N/A	N/A				OT	
RHR-975N	ANCHOR	N/A	N/A	N/A				OT	
RHR-949N	BOX	N/A	N/A	N/A				OT	
RHR-950N	BOX	N/A	N/A	N/A				OT	
RHR-951N	BOX	N/A	N/A	N/A				OT	
RHR-953N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 3879
RHR-955N	BOX	N/A	N/A	N/A				OT	
RHR-PB-204(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-204(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

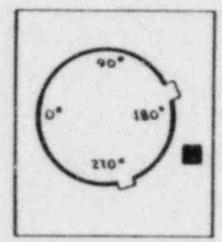


NOTES:

1. ACCESS TO WELD 20 RHR (2) A-6 REQUIRES REMOVAL OF RHR-68.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-875-1.5 REV 8



QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR G.A. KUGLER	DRAWN: K. McA	DATE 5-18-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

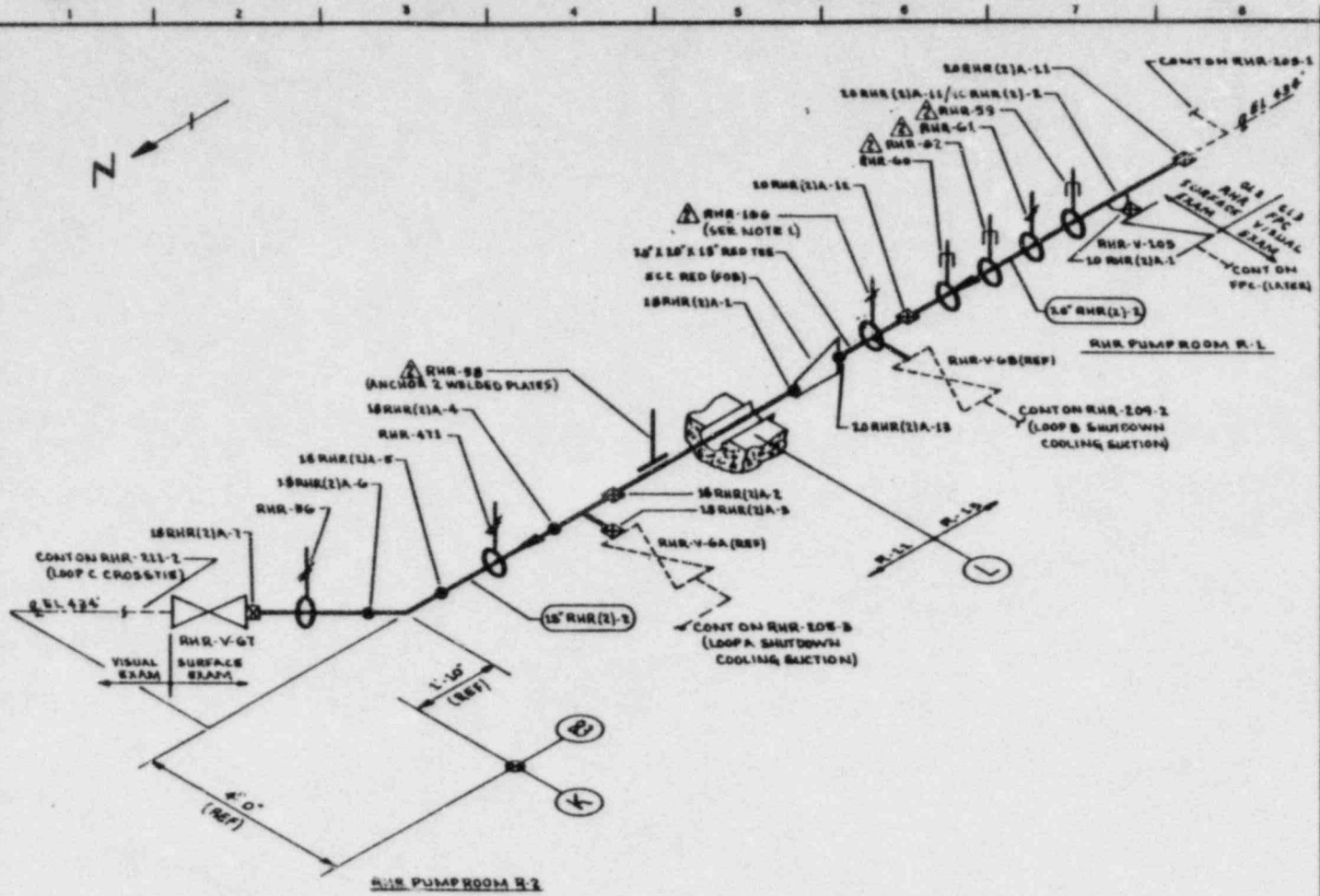
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (2)-2	20	STD	0.375	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR
SHUTDOWN COOLING SUCTION

DWG NO: RHR-205-1 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	4-26-83	REVISED AS NOTED	KMcA	[illegible]	[illegible]
1	11-5-80	ADDED FIELD WELD 20 RHR (2) A-2A & AS NOTED	KMcA	[illegible]	[illegible]
0	12-29-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

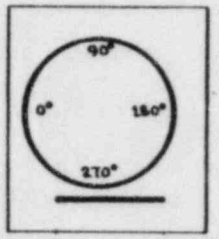


NOTES:

1. ACCESS TO WELDS 20 RHR(2)A-12 & 13 ⚠1 REQUIRES REMOVAL OF RHR-186.
2. SCAFFOLDING IS REQUIRED ⚠1

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-STS-G-8 REV 6



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: V.M.L.	DATE: 5-29-18

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

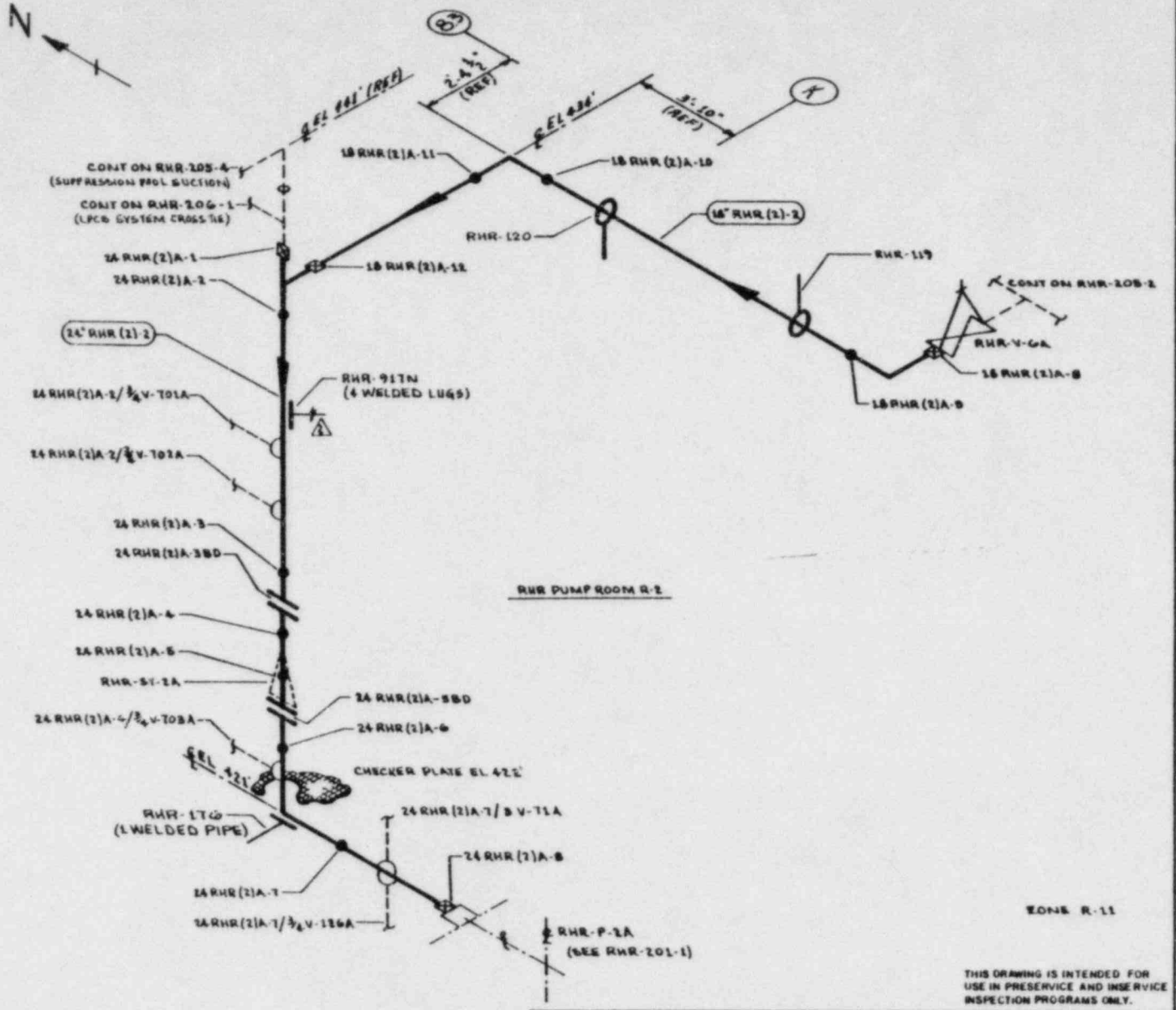
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (2)-2	20	STD	0.375	SA 106 GR B	CS	NA
18" RHR (2)-2	18	STD	0.375	SA 106 GR B	CS	NA
10" RHR (2)-2	10	STD	0.365	SA 234 GR WPB (WDL MATL)	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR SHUTDOWN COOLING SUCTION & FPC INTERTIE

DWG NO: RHR-209-2 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	REVISED AS NOTED	V.M.L.	GAK	TMH
1	12-1-81	REVISED AS NOTED	V.M.L.	GAK	TMH
0	11-18-78	ISSUED FOR USE	V.M.L.	TMH	[illegible]
A	9-29-78	ISSUED FOR INFORMATION ONLY	V.M.L.	GAK	[illegible]



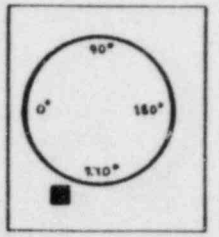
NOTES:

⚠1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-B75-18,16 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K-McA	DATE: 5-19-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (2)-2	18	STD	0.375	SA 106 GR B	CS	NA
24" RHR (2)-2	24	STD	0.375	SA 106 GR B	CS	NA

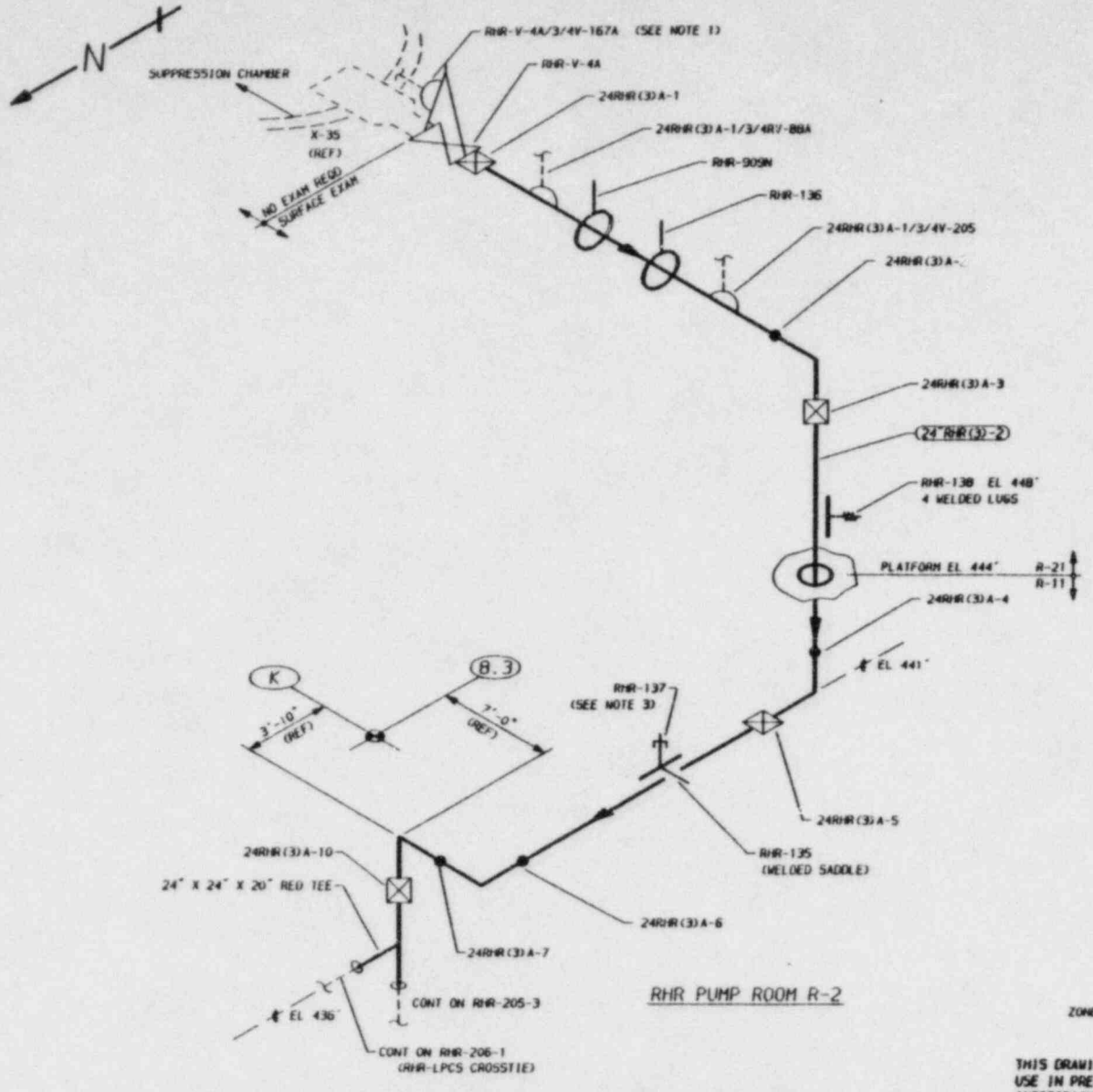
NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-88	ADDED NOTE 1. RHR-91TN CHANGED.	K-McA	[illegible]	[illegible]
1	12-2-81	REVISED AS NOTED	K-McA	[illegible]	[illegible]
0	11-25-81	ISSUED FOR USE	K-McA	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K-McA	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SHUTDOWN COOLING SUCTION

DWG NO: RHR-203-3 REV 2



RHR PUMP ROOM R-2

ZONES R-21 & R-11

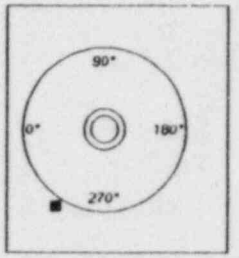
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

NOTES:

1. THIS IS A 1/4" CONNECTION WITH VISUAL EXAM EXTENDING TO 3/4"V-167A.
2. WELD 24RHR(3)A-7 IS FITTING TO FITTING.
3. THERE ARE EIGHT ABANDONED LUGS IN THE VICINITY OF RHR-137. NO EXAM IS REQUIRED.
4. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE AND CRAIL ISOMETRIC
RHR-B01-1.3 REV 2



KEYPLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: K-McA	DATE: 5-19-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPRESSION POOL SUCTION

DWG NO. RHR-205-4 REV 2

NO	DATE	REVISION	BY	CHKD	APVD
2	[illegible]	REVISED HANGERS, REDRAWN.	K-McA	TFH	DMP
1	11-5-80	DELETED WELDS 24RHR(3)A-8 & 9. AND AS NOTED	K-McA	TFH	DMP
0	12-22-78	ISSUED FOR USE	K-McA	TFH/DMP	LFB
A	9-12-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24"RHR(3)-2	24	STD	0.375	SA 106 GR B	CS	NA

WNP-02
INTERVAL: C1
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
20RHR(2)A-1									
	VALVE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-2									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-2A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-77(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-77									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)A-3									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-71									
	ANCHOR	IWF	F-X	VT3H				F	
20RHR(2)A-4									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-76(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-76									
	SPRING	IWF	F-X	VT3H				F	
RHR-69									
	STRUT	IWF	F-X	VT3H				F	
RHR-70									
	STRUT	IWF	F-X	VT3H				F	
20RHR(2)A-5									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-67									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 475
RHR-68									
	STRUT	IWF	F-X	VT3H				F	
20RHR(2)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-66									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)A-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(2)A-11/10RHR(2)-2									
	PIPE TO WOL	C-F-2	C5.81	SUR				F8	
10RHR(2)A-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-59									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 9942

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-61									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 680
RHR-62									
	SPRING	IWF	F-X	VT3H				F	
RHR-60									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2369
20RHR(2)A-12									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-166									
	SPRING	IWF	F-X	VT3H				F	
20RHR(2)A-13									
	TEE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-58									
	ANCHOR	IWF	F-X	VT3H				F	W/2 WELDED PLATES.
18RHR(2)A-2									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-3									
	TEE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-4									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-471									
	SPRING	IWF	F-X	VT3H				F	
18RHR(2)A-5									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(2)A-6									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-56									
	SPRING	IWF	F-X	VT3H				F	
18RHR(2)A-7									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-8									
	VALVE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-119									
	STRUT	IWF	F-X	VT3H				F	
RHR-120									
	STRUT	IWF	F-X	VT3H				F	
18RHR(2)A-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)A-12									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-1									
	TEE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-2									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 24RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-917N(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-917N									
	SPRING	IWF	F-X	VT3H				F	
24RHR(2)A-3									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-4									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-5									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-6									
	FLANGE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-176									
	STRUT	IWF	F-X	VT3H				F	
24RHR(2)A-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)A-8									
	PIPE TO PUMP	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)A-1									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-909N									
	STRUT	IWF	F-X	VT3H				F	
RHR-136									
	STRUT	IWF	F-X	VT3H				F	

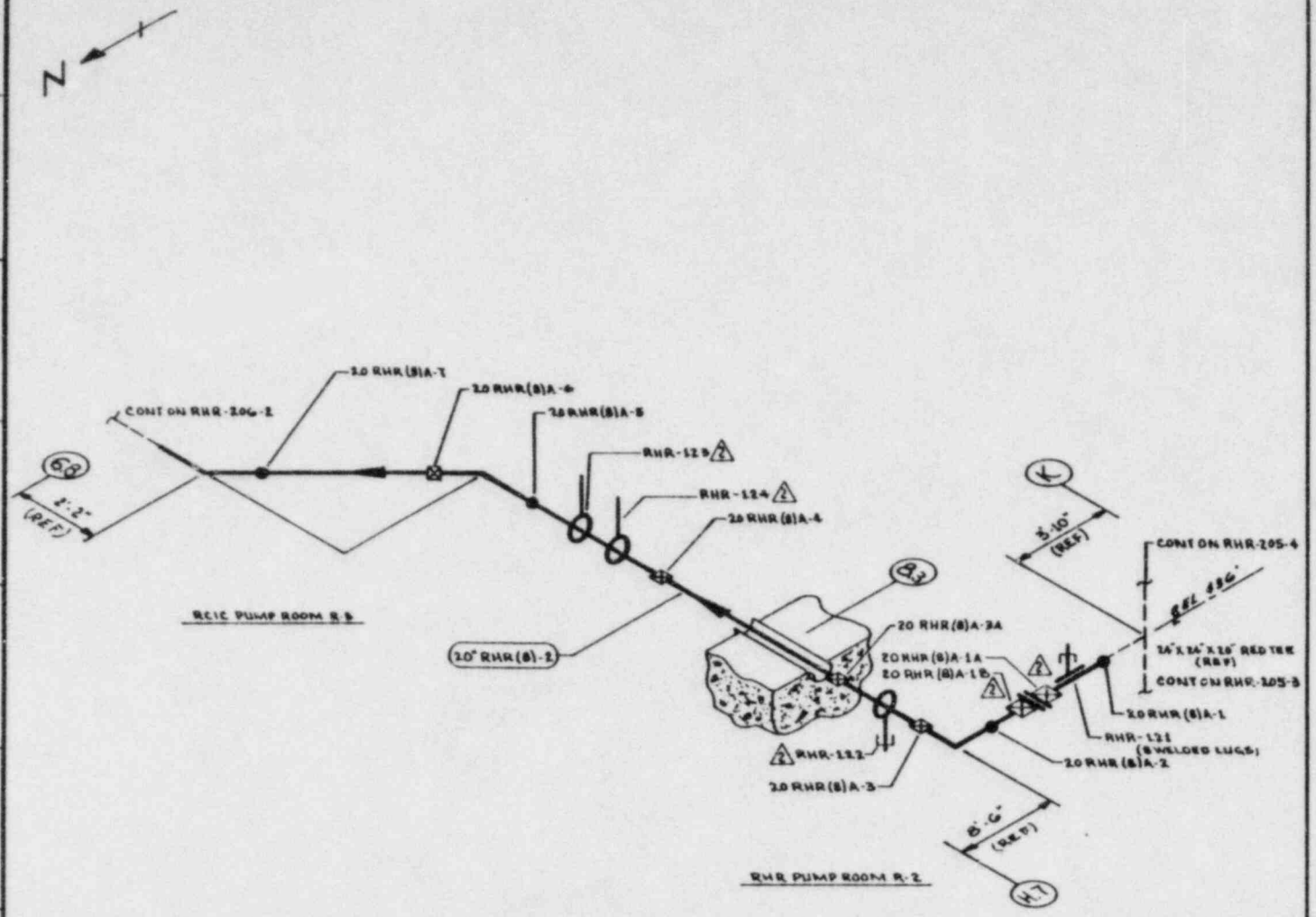
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 24RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
24RHR(3)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-138(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-138									
	SPRING	IWF	F-X	VT3H				F	
24RHR(3)A-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)A-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-135									
	STRUT	IWF	F-X	VT3H				F	
RHR-137									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N E14554/W14553
24RHR(3)A-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)A-7									
	EL TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)A-10									
	EL TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-PB-205(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				B	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 24RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-PB-205(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

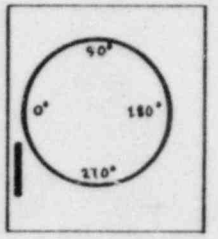


NOTES:

1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEY & CRAIL ISOMETRICS
RHR-881-4.7 REV 6



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(B)-2	20	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-85	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	11-5-80	ADDED FIELD WELD 20 RHR(B)A-3A & AS NOTED	[illegible]	[illegible]	[illegible]
0	12-29-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.A. | DATE: 6-22-78

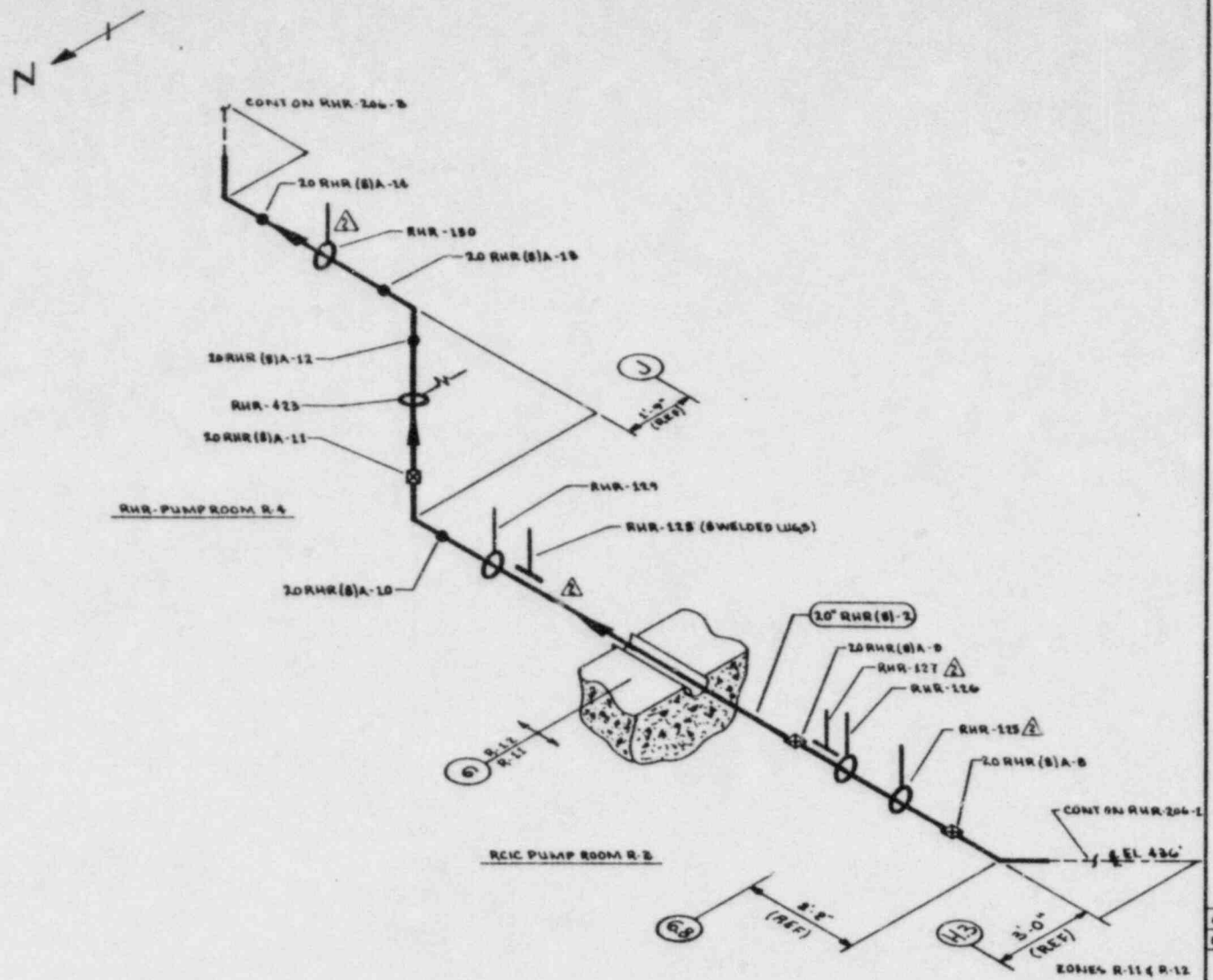
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR - LPCS CROSSTIE

DWG NO: RHR-206-1 | REV 2

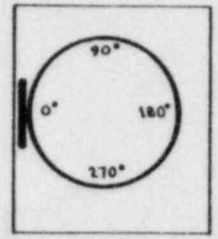


NOTES:

1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVER & CRAIL ISOMETRIC
RHR-881-B-13 REV 4



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (S)-2	20	STD	0.375	SA 106 GR B	C-Mn	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-88	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	12-2-81	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-28-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

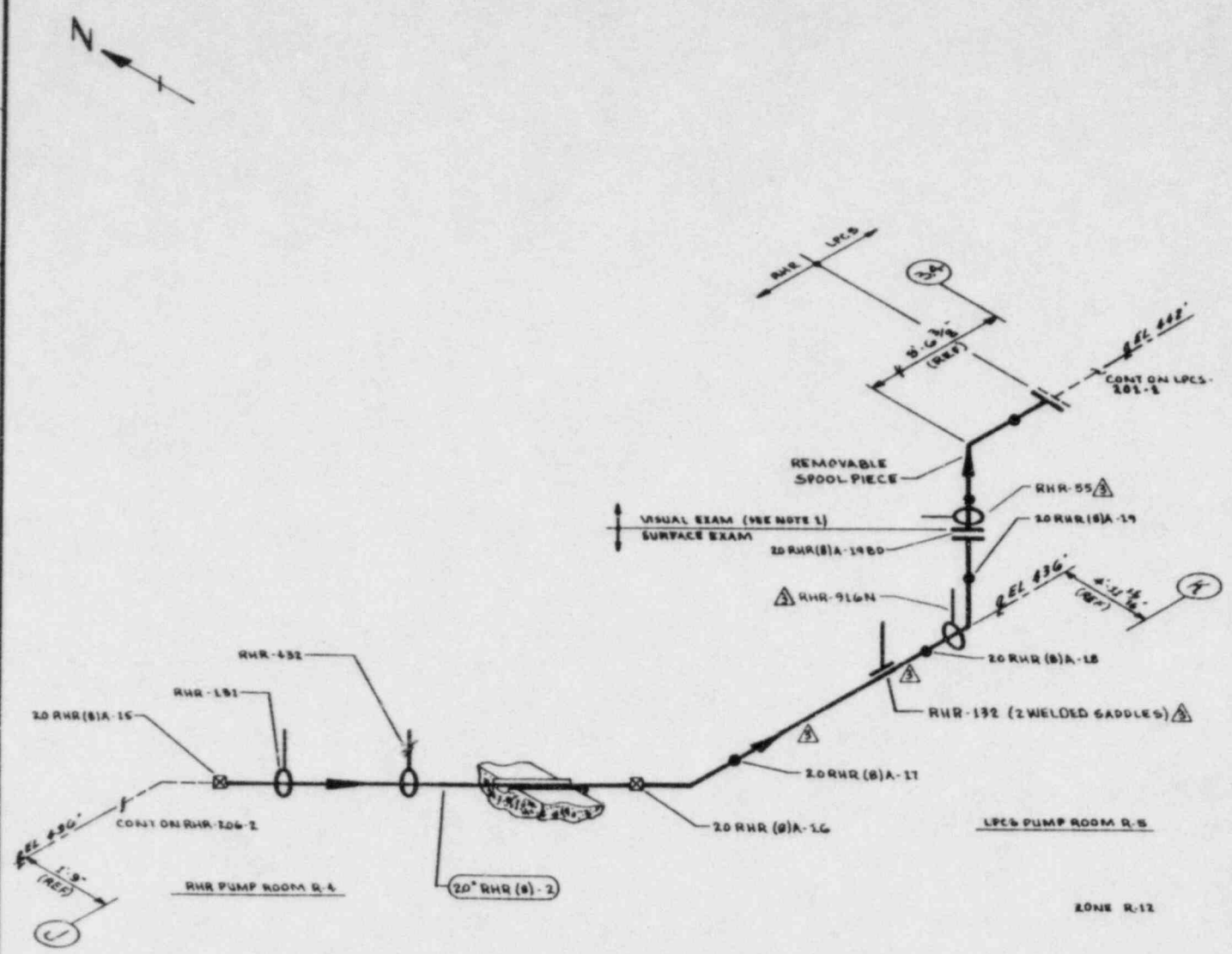
ENGR: G.A. KLIGLER | DRAWN: K. McA. | DATE: 5-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR-LPCS CROSSTIE

DWG NO: RHR-206-2 | REV 2

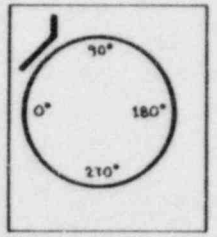


NOTES:

1. SPOOL PIECE REMOVED DURING NORMAL OPERATION. BLANKED FLANGE IS THE LIMIT OF CLASS 2 PRESSURE BOUNDARY. NO EXAMS REQUIRED OF SPOOL PIECE ITSELF, AS IT IS USED FOR PREOPERATIONAL TESTING ONLY.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-881-B-13 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR G. A. KUGLER	DRAWN W. M. C. A.
	DATE: 5-22-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-26-83	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
2	12-3-81	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
1	7-27-79	CHANGED REMOVABLE SPOOL PIECE TO VISUAL ONLY. ADDED NOTE 1.	K.M.A.	[illegible]	[illegible]
0	11-28-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (B)-2	20	STD	0.375	SA 106 GR B	CS	4A

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR-LPCS CROSSTIE

DWG NO: RHR-206-B REV 3

WNP-02
INTERVAL: 01
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
20RHR(8)A-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-121(V)									
	3 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-121									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	S/N
20RHR(8)A-1A									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-1B									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-122									
	STRUT	IWF	F-X	VT3H				F	
20RHR(8)A-3A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-4									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-124									
	STRUT	IWF	F-X	VT3H				F	
RHR-123									
	BOX	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
20RHR(8)A-5									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-6									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-7									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-8									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-125									
	STRUT	IWF	F-X	VT3H				F	
RHR-126									
	STRUT	IWF	F-X	VT3H				F	
RHR-127									
	BOX	IWF	F-X	VT3H				F	
20RHR(8)A-9									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-128									
	BOX	IWF	F-X	VT3H				F	
RHR-129									
	STRUT	IWF	F-X	VT3H				F	
20RHR(8)A-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

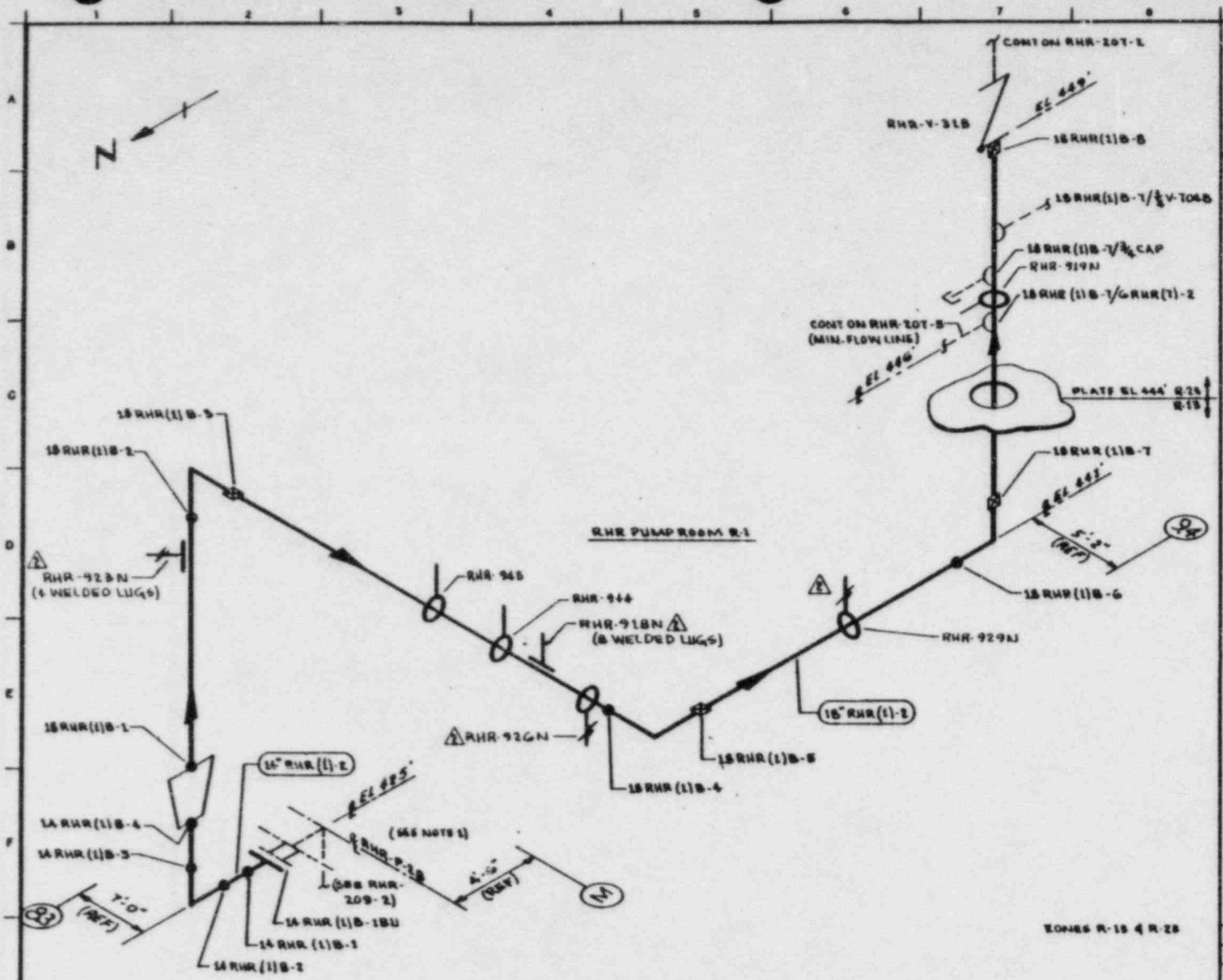
WNP-02
INTERVAL: 01
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-423									
	SPRING	IWF	F-X	VT3H				F	
20RHR(8)A-12									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-13									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-130									
	BOX	IWF	F-X	VT3H				F	
20RHR(8)A-14									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-15									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-131									
	STRUT	IWF	F-X	VT3H				F	
RHR-432									
	SPRING	IWF	F-X	VT3H				F	
20RHR(8)A-16									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(8)A-17									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-132									
	ANCHOR	IWF	F-X	VT3H				F	W/2 WELDED SADDLES.
20RHR(8)A-18									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-916M									
	RIGID	IWF	F-X	VT3H				F	
20RHP(8)A-19									
	EL TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-55									
	BOX	IWF	F-X	VT3H				F	
RHR-FB-206(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-FB-206(H)									
	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

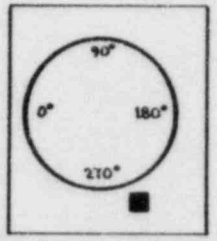


NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR PUMP 2B VENTS & DRAINS TO OUTERMOST NORMALLY CLOSED VALVE.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-898-1.4 REV 9



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.C.A.
DATE: 6-5-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	N.A.
18" RHR (1)-2	18	80	0.438	SA 106 GR B	CS	N.A.

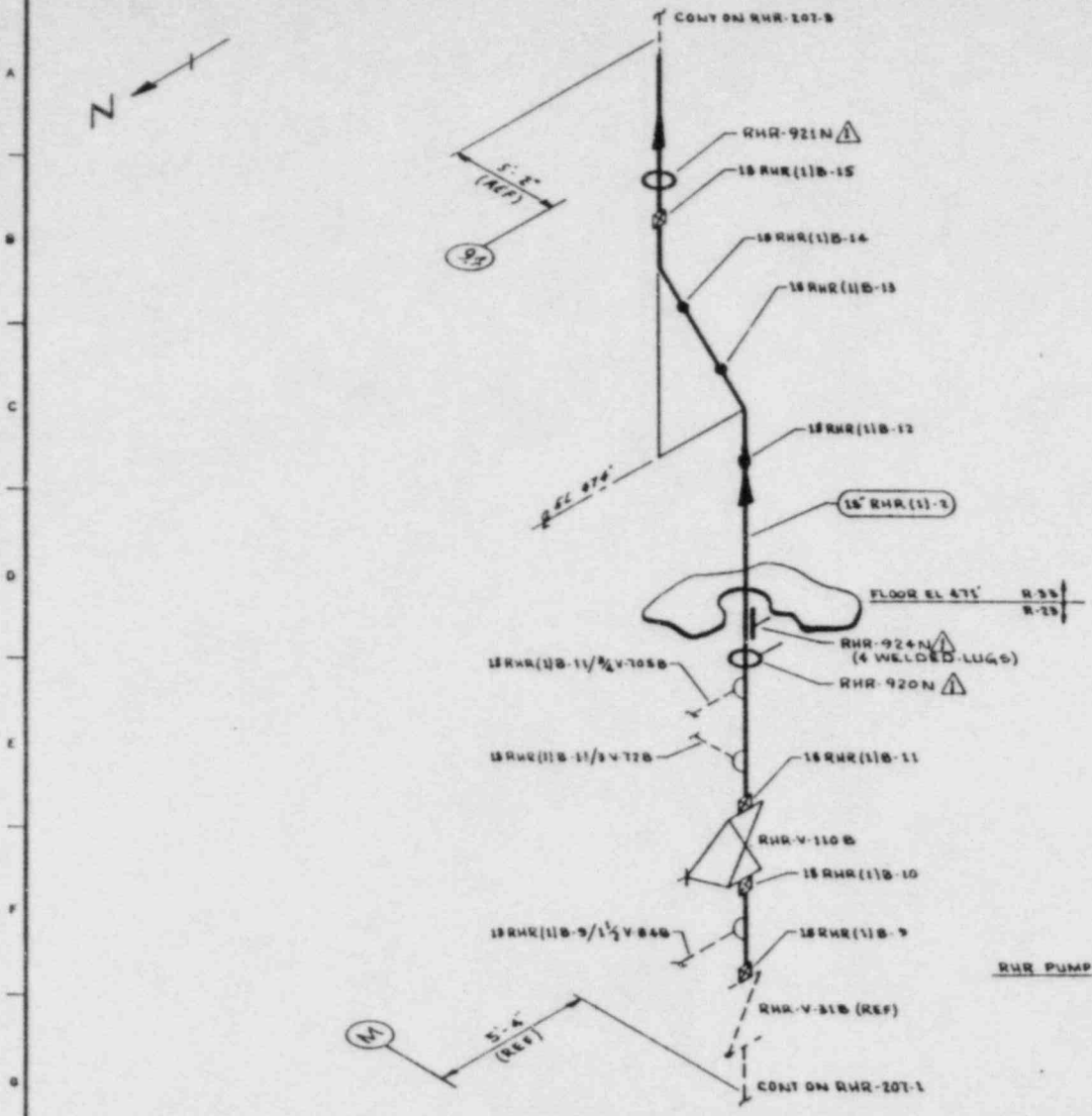
NO	DATE	REVISION	BY	CHKD	APPVD
2	12-7-79	REVISED AS NOTED	K.M.C.A.	MR	TFH
1	12-3-79	REVISED AS NOTED	K.M.C.A.	[illegible]	TFH
0	11-11-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.M.C.A.	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

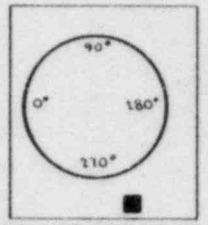
TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-1 REV 2



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RHR-858-5.8 REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K. McA. DATE: 6-5-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

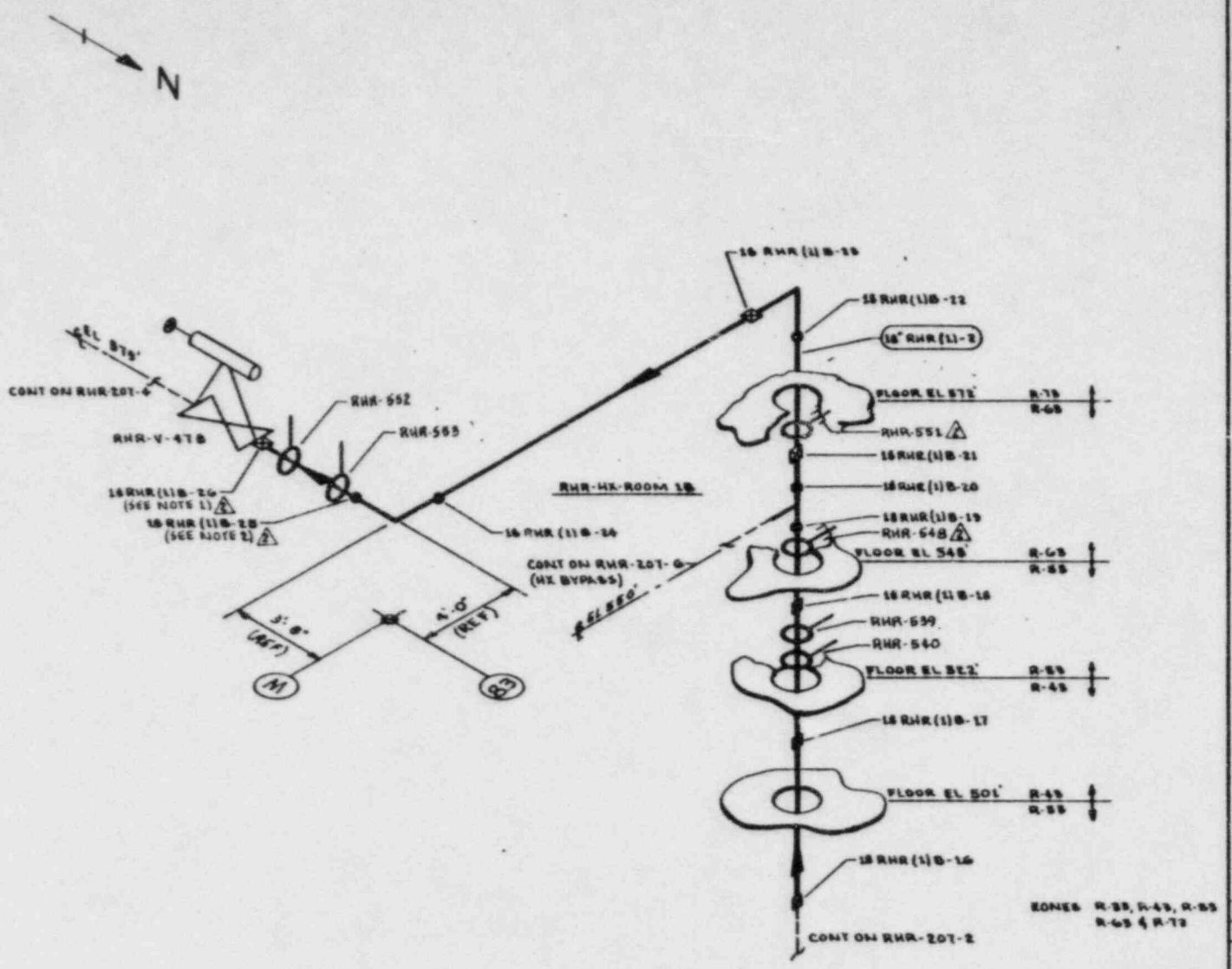
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(1)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR HX 1B

DWG NO: RHR-207-2 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1		REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	11-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-22-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]



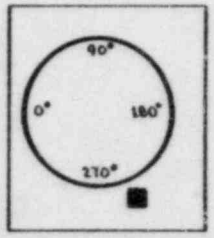
NOTES:

1. ACCESS TO WELD 1BRHR(1)B-26 REQUIRES REMOVAL OF RHR-552.
2. ACCESS TO WELD 1BRHR(1)B-25 REQUIRES REMOVAL OF RHR-553.

REFERENCES

BOYER & CRAIL ISOMETRICS

RHR-898-8.8 REV 3
RHR-898-9.14 REV 9



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	80	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
E	10-13-83	REVISED AS NOTED			
J	10-2-81	REVISED AS NOTED			
0	11-17-78	ISSUED FOR USE			
A	9-12-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.A | DATE: 6-6-78

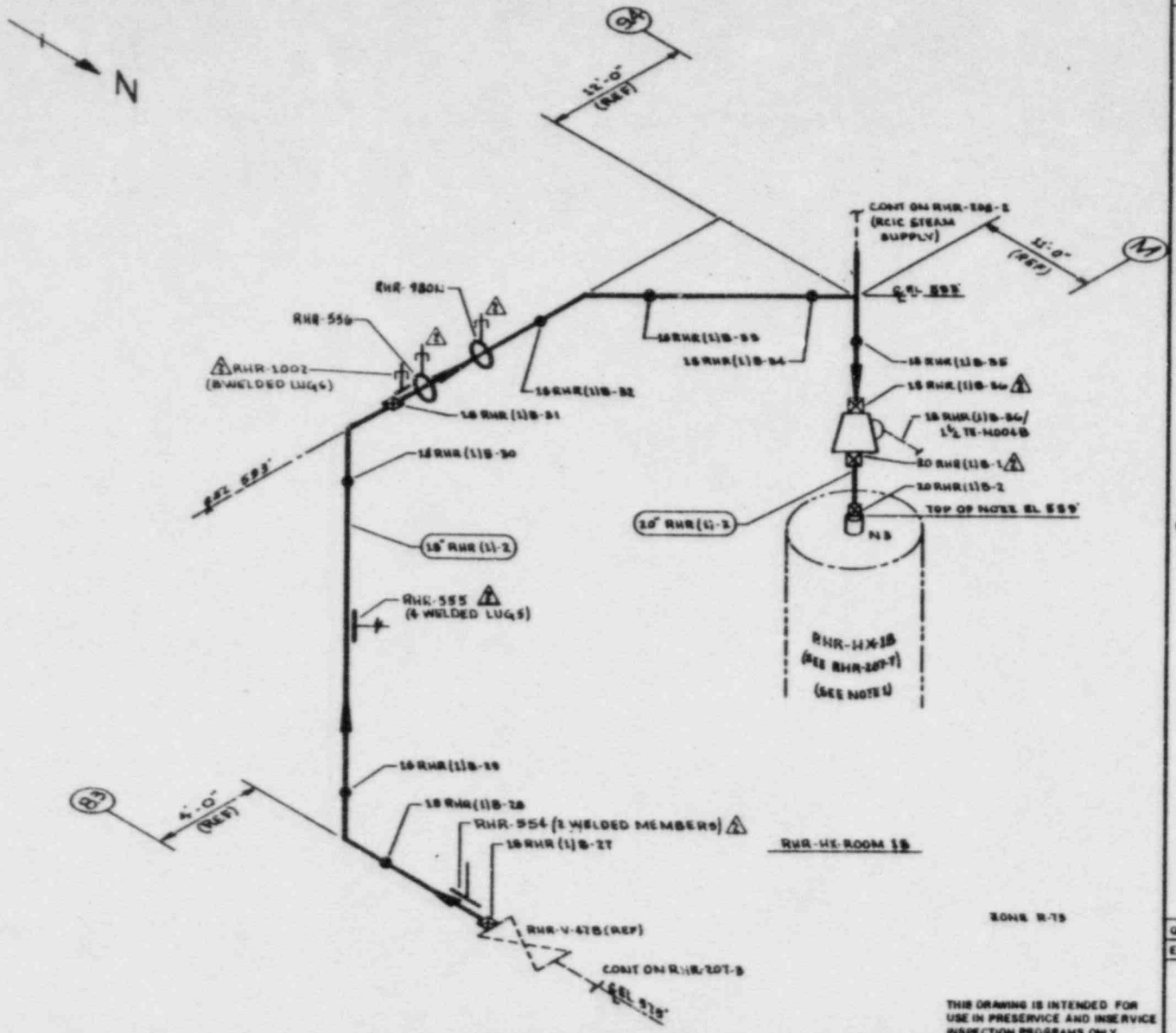
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-B | REV E

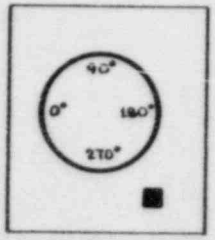


NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-HX-1B VENTS & DRAINS THROUGH OUTERMOST NORMALLY CLOSED ISOLATION VALVE, RELIEF VALVE OR TRANSITION TO INSTRUMENT TUBING.
2. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-B9B-9.14 REV 9



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A.
DATE: 6-6-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WHP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

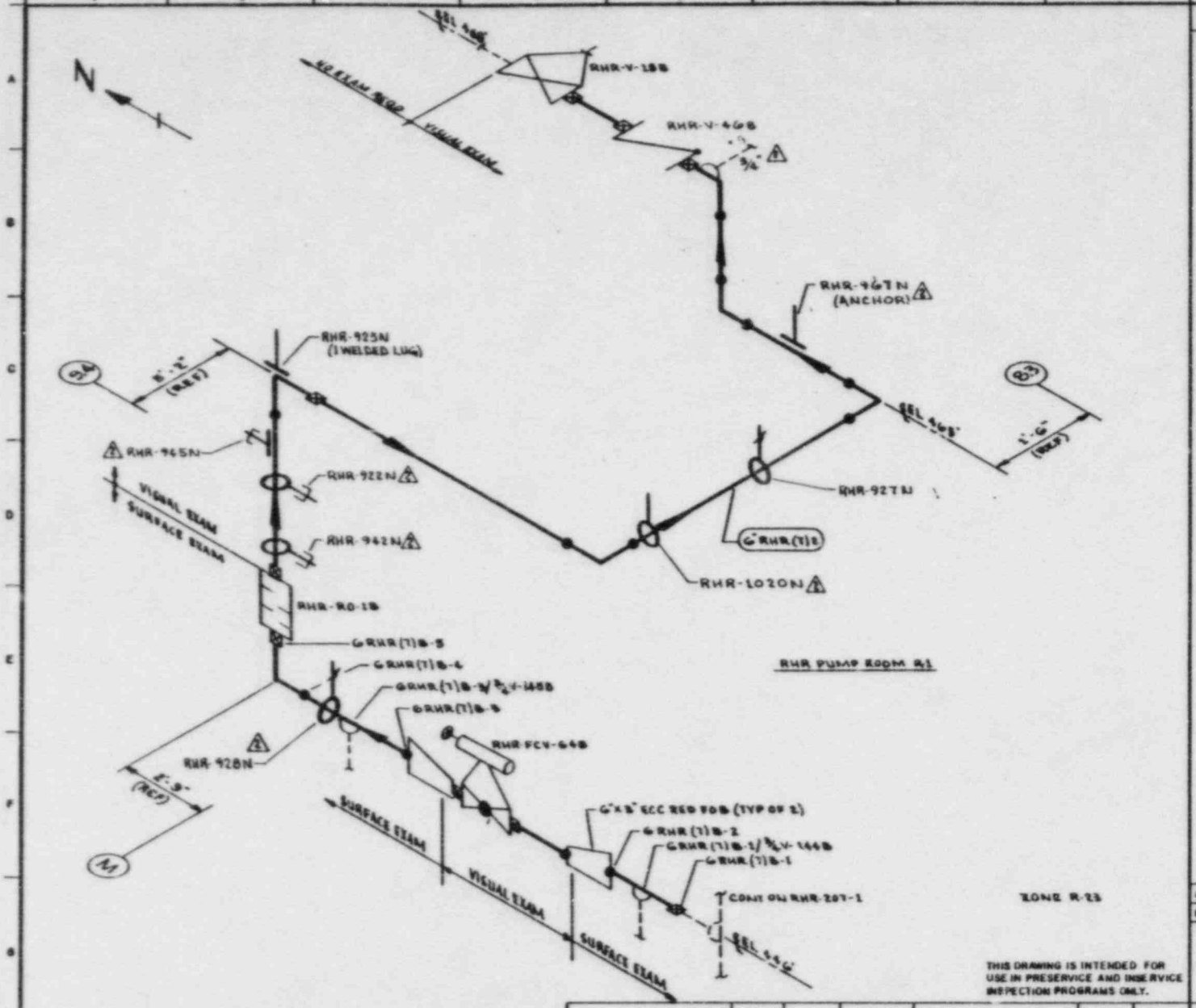
TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-4 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
E	10-13-83	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
D	12-2-81	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
C	11-23-79	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
20" RHR(1)-2	20	30	0.500	SA 106 GR B	CS	NA



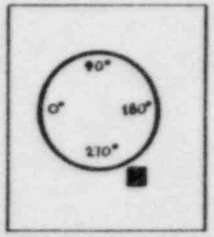
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-898-36.38 REV 9
RHR-898-39.40 REV 7



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (T)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-88	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	12-2-87	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K. McA | DATE: 6-6-78

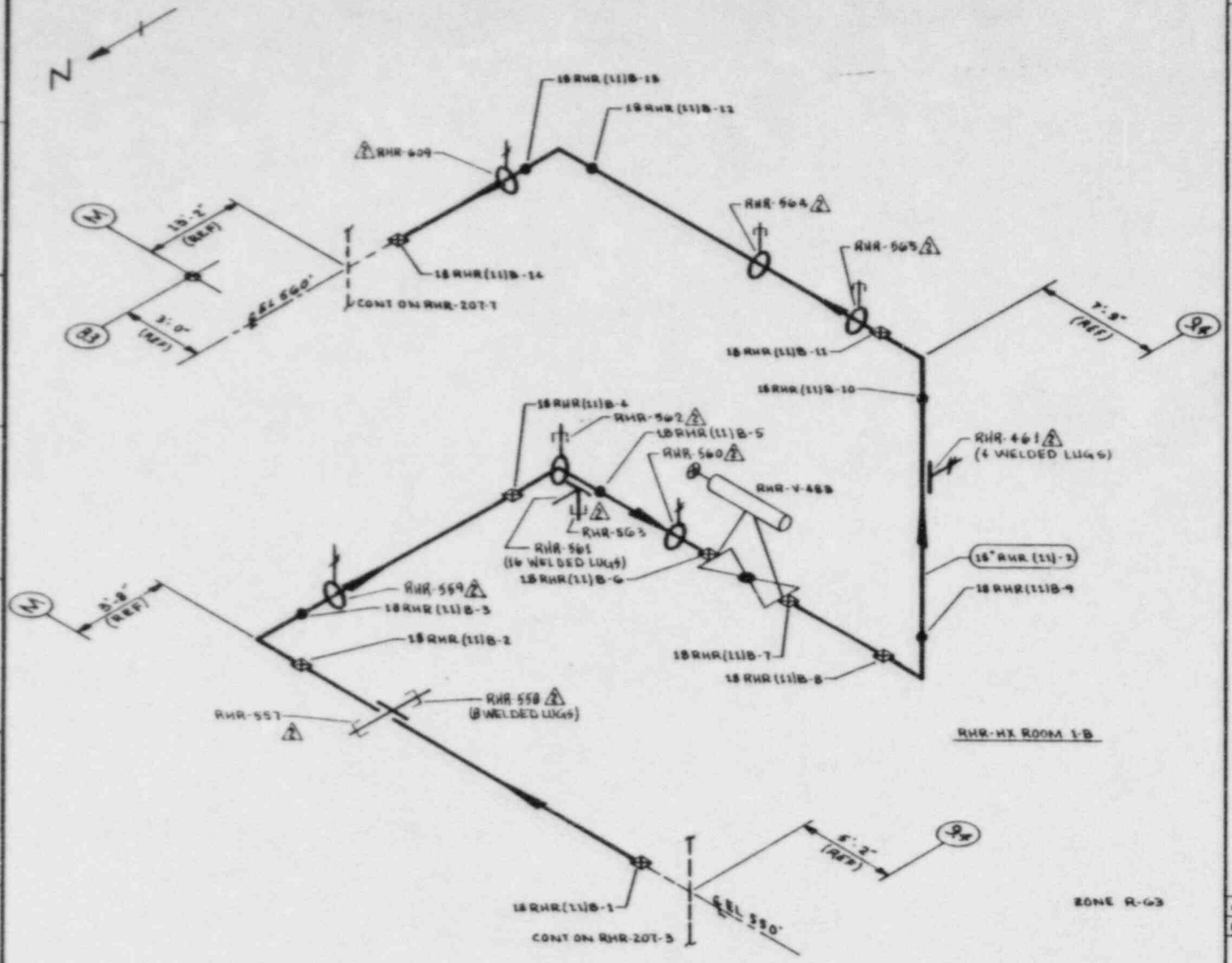
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP- 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
MINIMUM FLOW LINE TO SUPPRESSION POOL

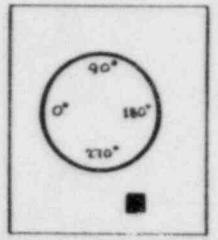
DWG NO: RHR-207-B | REV 2



NOTES:

REFERENCES:

BOVEN & CRAIL ISOMETRIC
RHR-900-1.5 REV 5



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K McA
DATE: 6-7-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

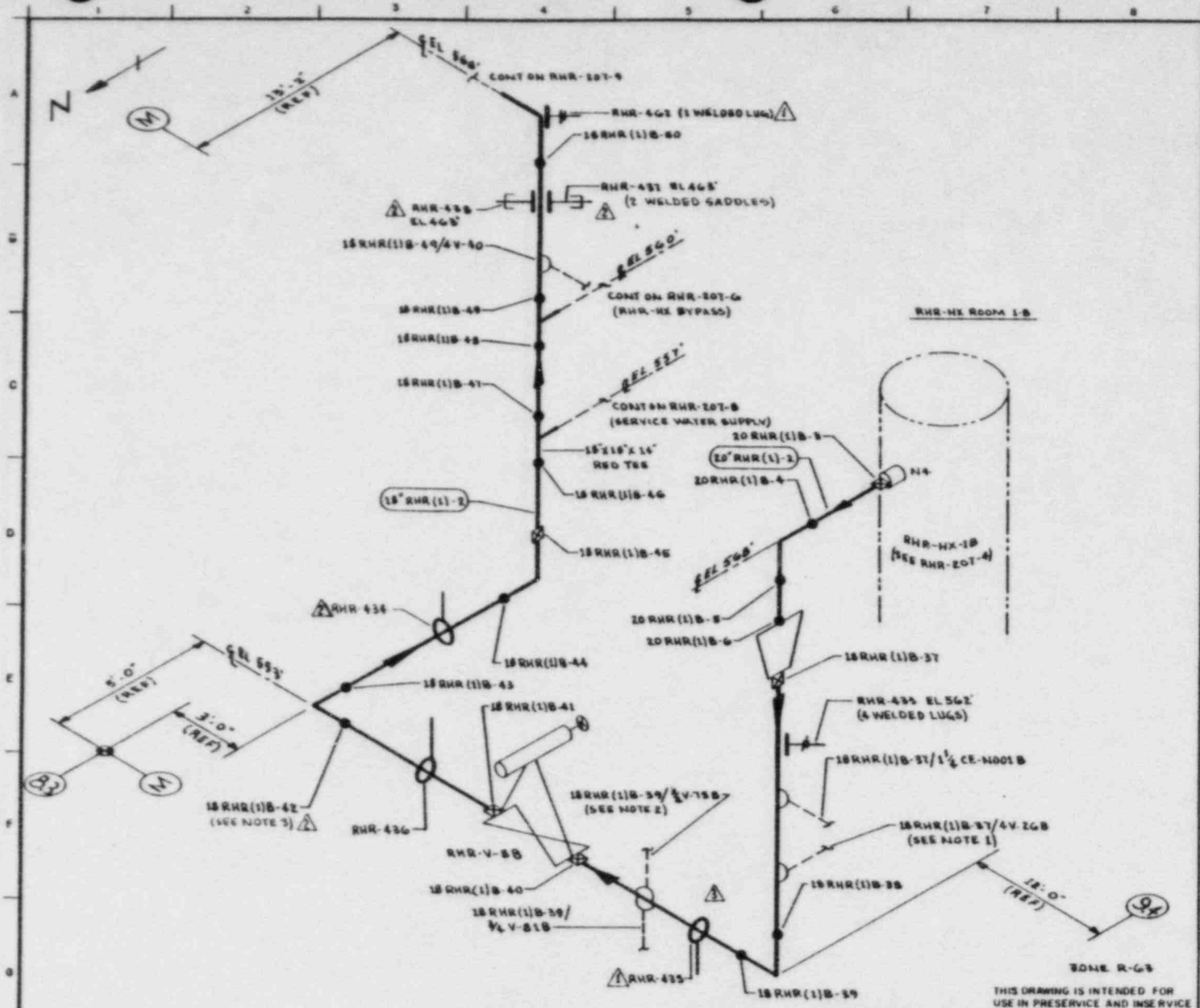
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (11)-2	18	30	0.438	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	REVISED AS NOTED	K McA	JDM	TFF
1	12-2-81	REVISED AS NOTED	K McA	JDM	TFF
0	11-13-78	ISSUED FOR USE	K McA	JDM	TFF
A	9-13-78	ISSUED FOR INFORMATION ONLY	K McA	JDM	TFF

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RHR HEAT EXCHANGER BYPASS

DWG NO: RHR-207-G REV 2



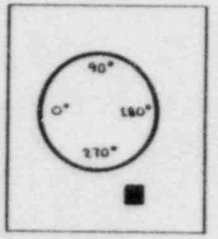
NOTES:

1. TERMINATE VISUAL EXAM AT V-26B, V-11B & V-150B.
2. THIS IS A 1½" WOL WITH ¾" BRANCH PIPE. EXTEND VISUAL EXAM TO ¾" V-15B.
3. WELD 18RHR(1)B-42 IS PARTIALLY OBSTRUCTED BY TRUNION ATTACHED TO RHR-436.
4. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-899-14 REV 9

KEY PLAN



PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(1)-2	18	30	0.438	SA 106 GR B	CS	N.A.
20" RHR(1)-2	20	30	0.500	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-24-80	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	12-2-8[illegible]	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	11-23-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS 2

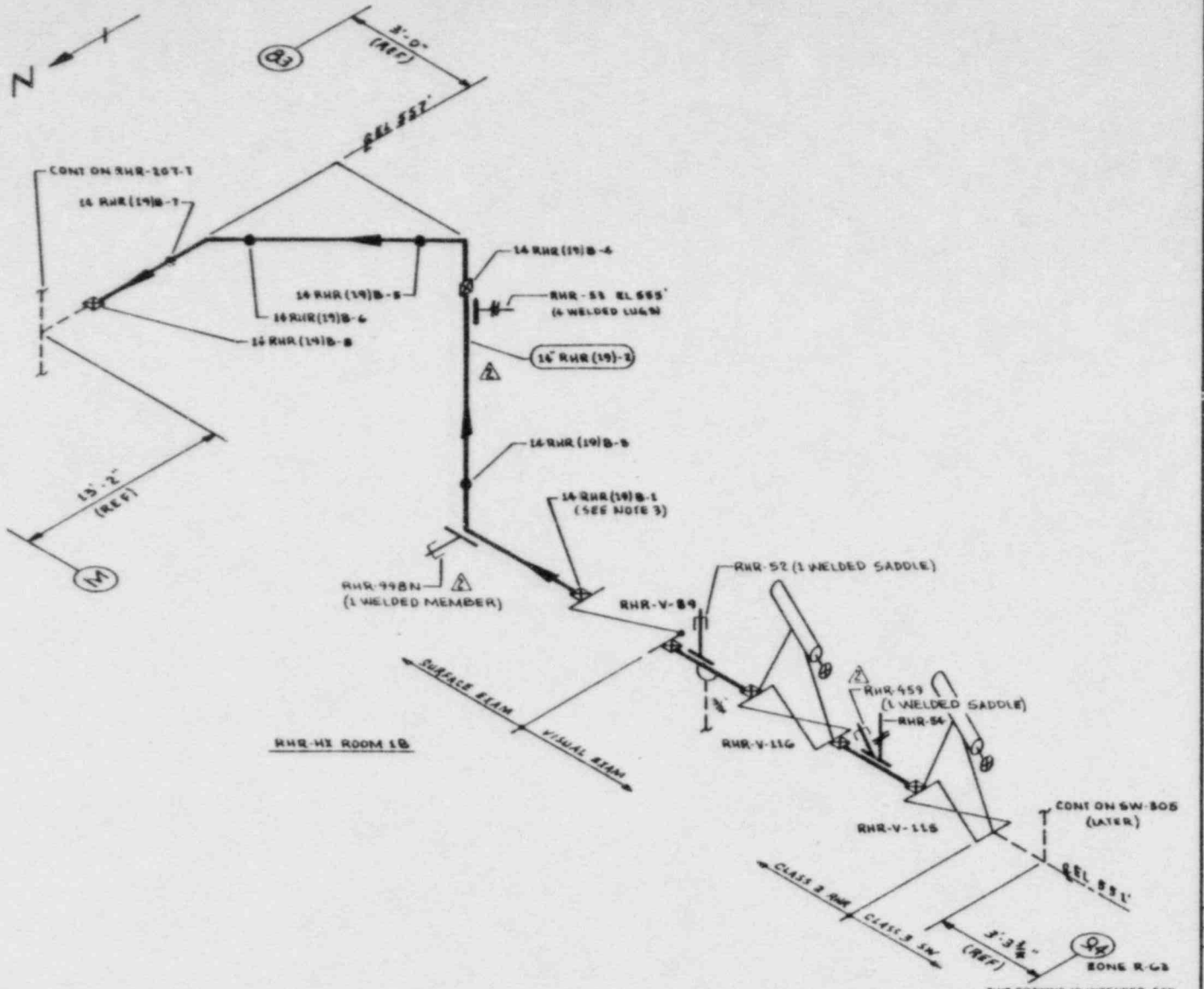
ENGR GA KUGLER | DRAWN K. McA | DATE 6-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY FROM RHR-HX-1B

DWG NO: RHR-207-7 | REV 2



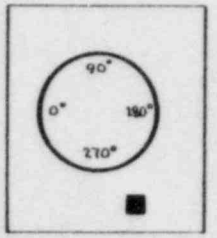
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. ELBOW BETWEEN WELDS 14 RHR (19)B-1 & 2 IS FITTING TO VALVE.
4. SCAFFOLDING IS REQUIRED DOWNSTREAM OF WELD 14 RHR (19)B-4.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-978-1.4 REV 11



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR G.A. KUGLER / DRAWN K. McA.	DATE 6-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

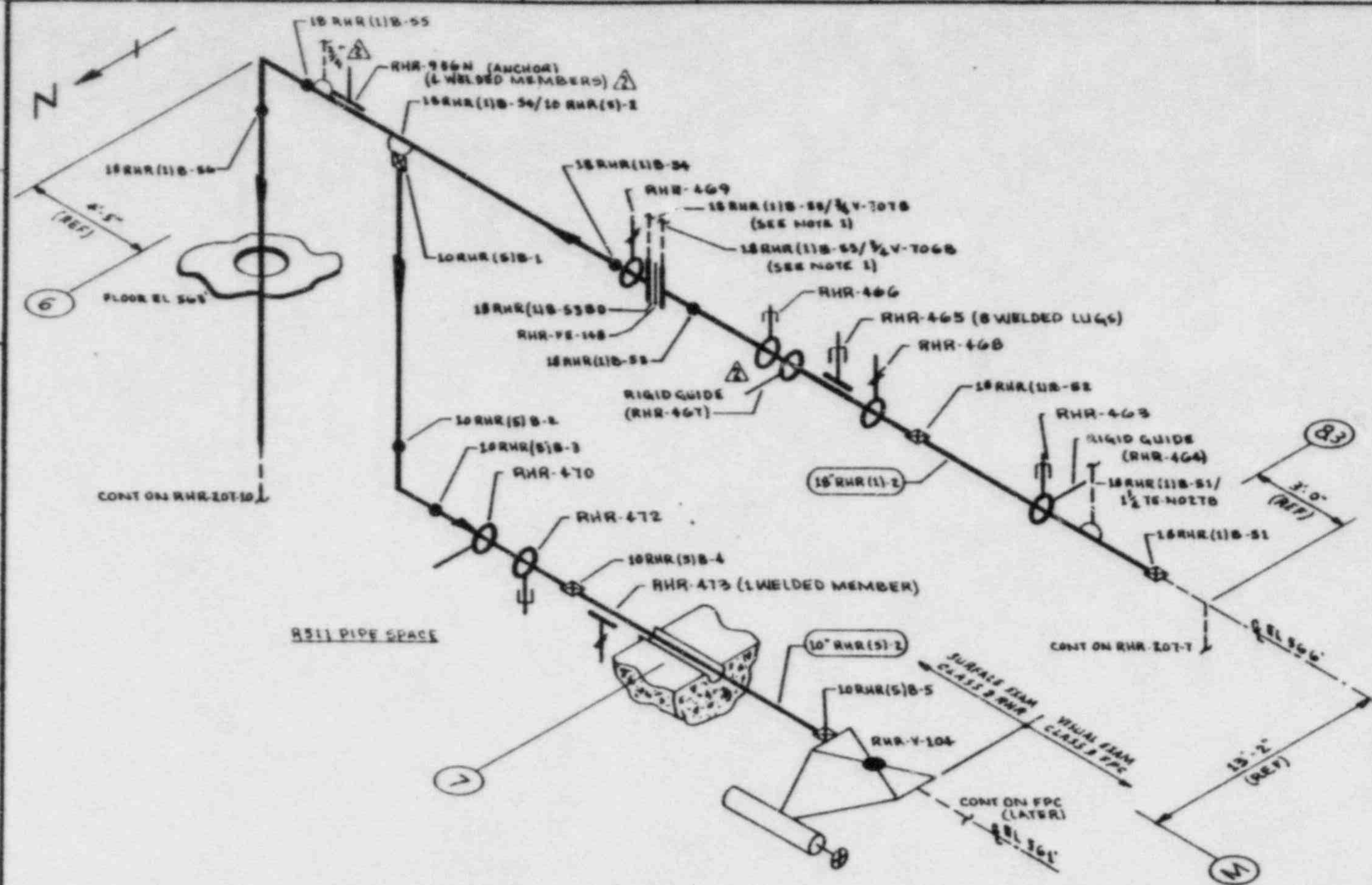
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SERVICE WATER SUPPLY TO RHR HX-1B DISCHARGE

DWG NO: RHR-207-8 REV 2

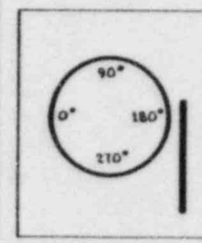
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (19)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	12-2-88	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	11-5-80	DELETED WELD 14 RHR (19)B-2, ADDED NOTE 3. CHG'D	[illegible]	[illegible]	[illegible]
0	12-27-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]



NOTES:
1. THESE ARE ½" CONNECTIONS WITH VISUAL EXAM EXTENDING TO ¾V-706B, ¾V-707B, ¾V-728B & ¾V-729B.

REFERENCES:
BOVEE & CRAIL ISOMETRICS
RHR-899-5.7 REV 7
RHR-899-36.37 REV 4



KEY PLAN

ZONES R-63

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
10" RHR (5)-2	10	40	0.365	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	4-26-81	REVISED AS NOTED			
1	11-2-81	REVISED AS NOTED			TFM
0		ISSUED FOR USE			
A	4-11-78	ISSUED FOR INFORMATION ONLY			

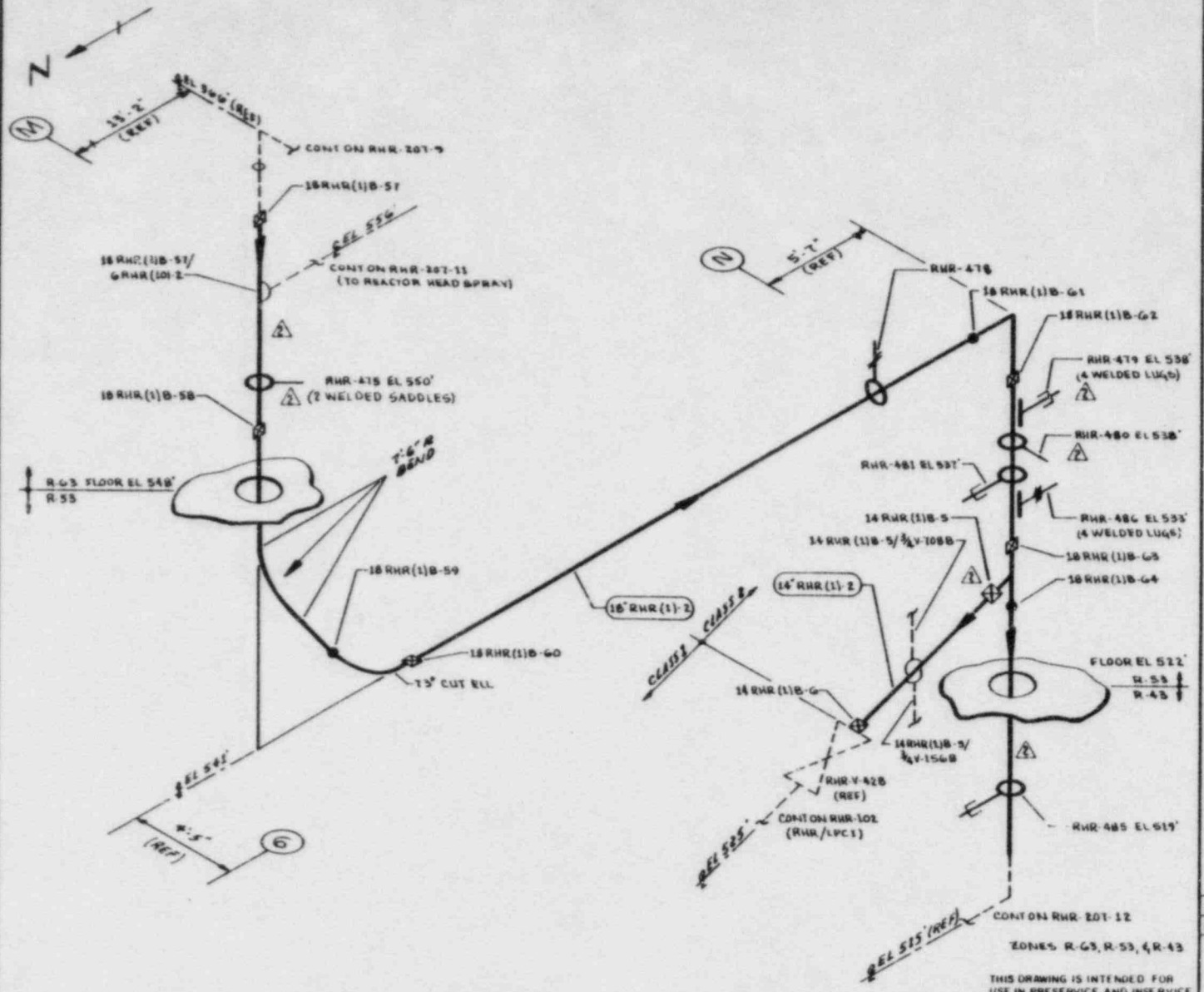
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K McA | DATE: 6-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B SUPPLY FROM RHR-HX-1B & FPC INTERTIE

DWG NO: RHR-207-9 | REV 2



ZONES R-63, R-53, & R-43

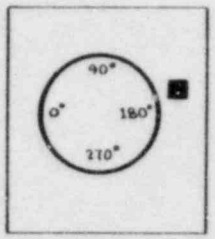
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-8.11 REV 6
RHR-899-12.11 REV 9



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS 2
ENGR GA KUGLER	DRAWN K.M.A. DATE 6-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

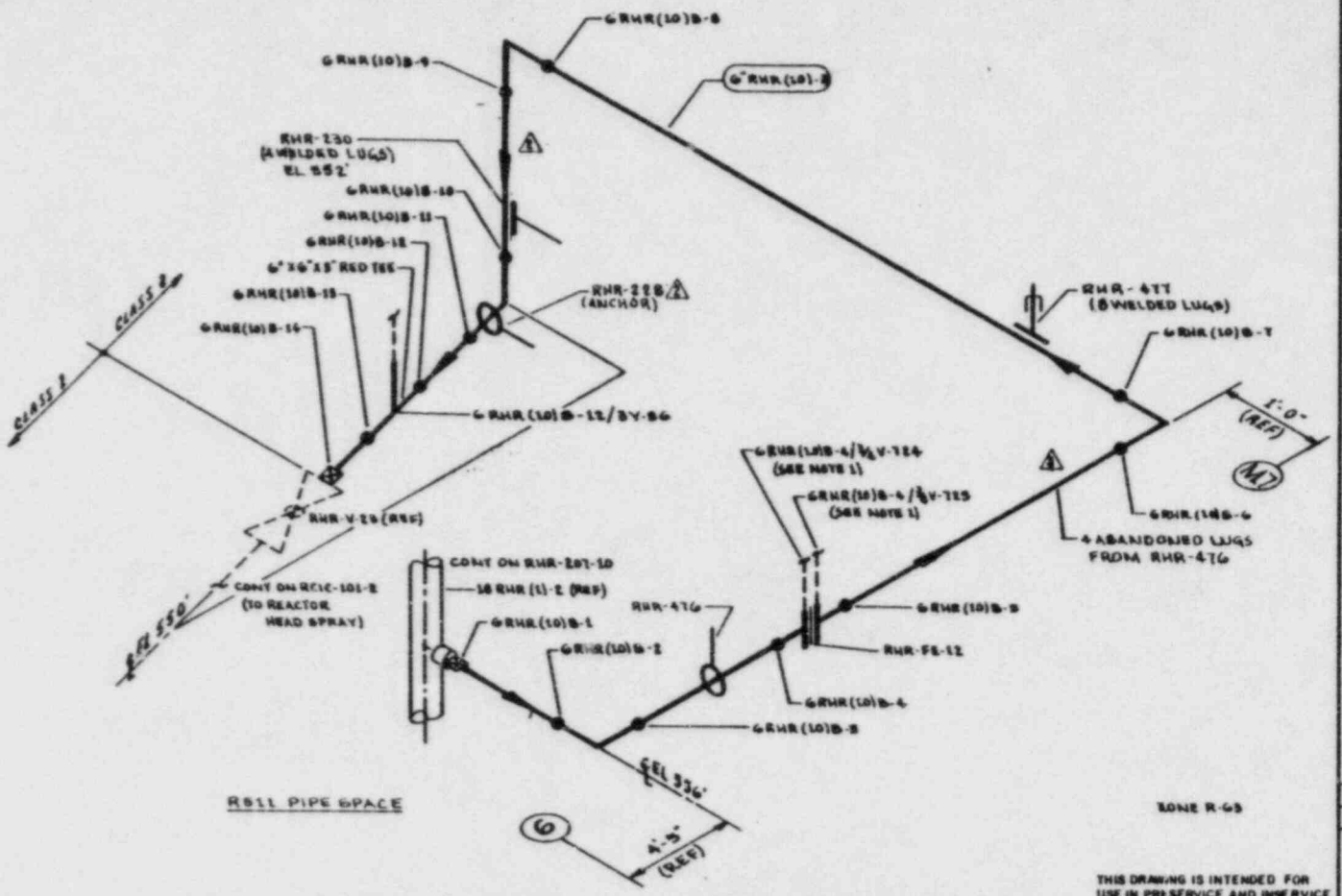
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	80	0.438	SA 106 GR B	CS	NA
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	10-13-83	REVISED AS NOTED	K.M.A.	[illegible]	TFG
1	12-2-81	REVISED AS NOTED	K.M.A.	[illegible]	TFG
0	12-28-78	ISSUED FOR USE	K.M.A.	[illegible]	TFG
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY FROM RHR HX-1B

DWG NO. RHR-207-10 REV 2



RB11 PIPE SPACE

ZONE R-63

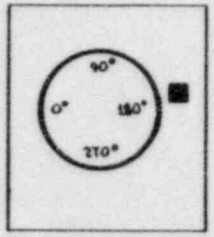
NOTES:

1. THESE ARE ½" CONNECTIONS WITH VISUAL EXAM EXTENDING TO ¾ V-124 & ¾ V-125.

REFERENCES:

BOVEN & CRAIL ISOMETRICS

RHR-748-1.2 REV 7



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (10)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-84	REVISED AS NOTED	[illegible]	JWS	JFH
1	12-2-83	REVISED AS NOTED	[illegible]	WPR	TFH
0	11-23-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-25-79	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: GA KUGLER | DRAWN: K. McA | DATE: 6-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

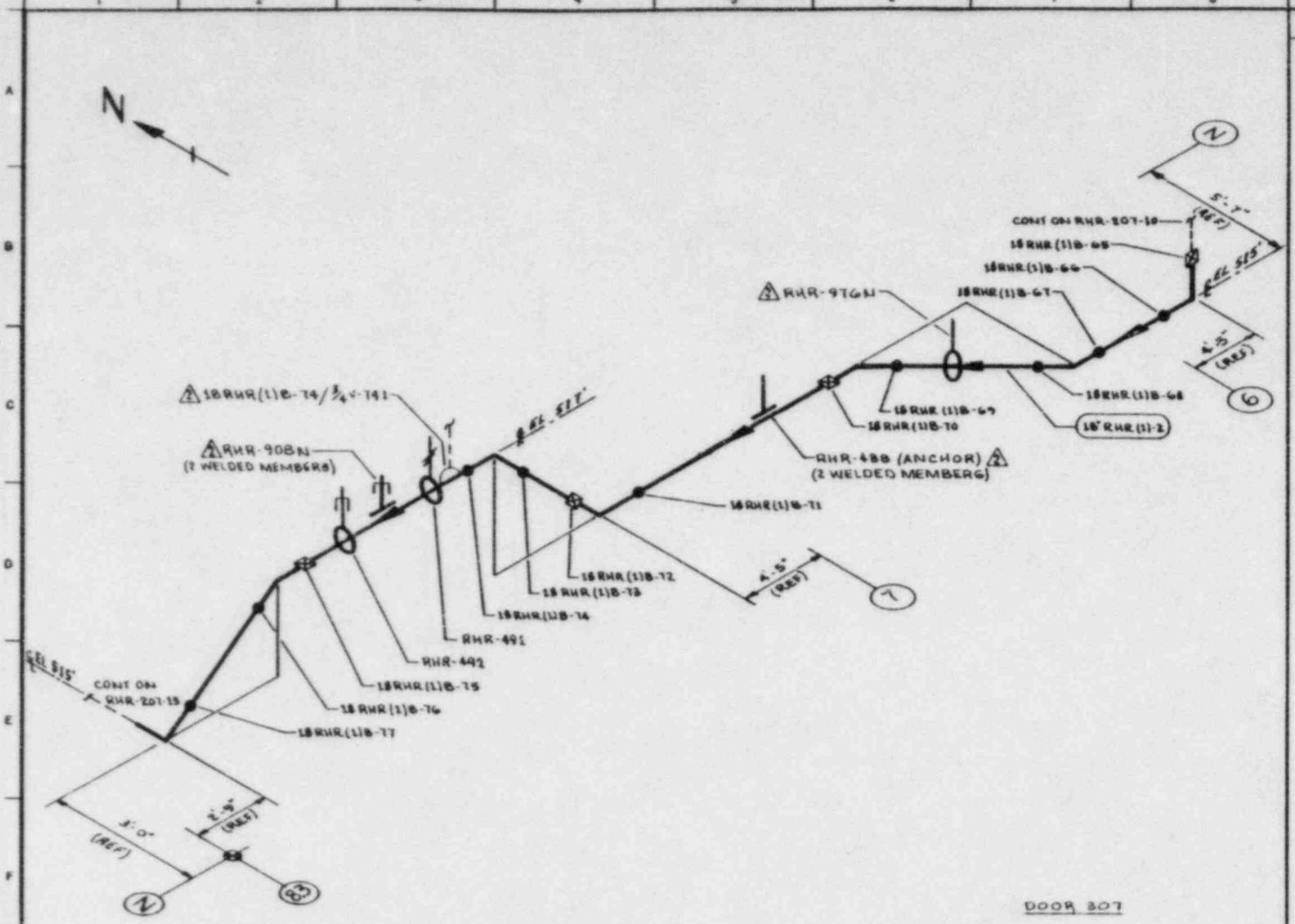
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP B

REACTOR HEAD SPRAY SUPPLY

DWG NO: RHR-207-11 | REV 2

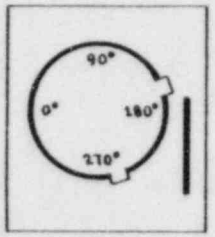


NOTES:

REFERENCES:

BOVES & CRAIL ISOMETRICS

RHR-899-12.11 REV 7



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-88	REVISED AS NOTED	K.M.K	[illegible]	TFH
1	12-2-81	REVISED AS NOTED	K.M.K	[illegible]	TFH
0	12-27-79	ISSUED FOR USE	K.M.K	[illegible]	TFH
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.K	[illegible]	TFH

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUKLER | DRAWN: K.M.K. | DATE: 6-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

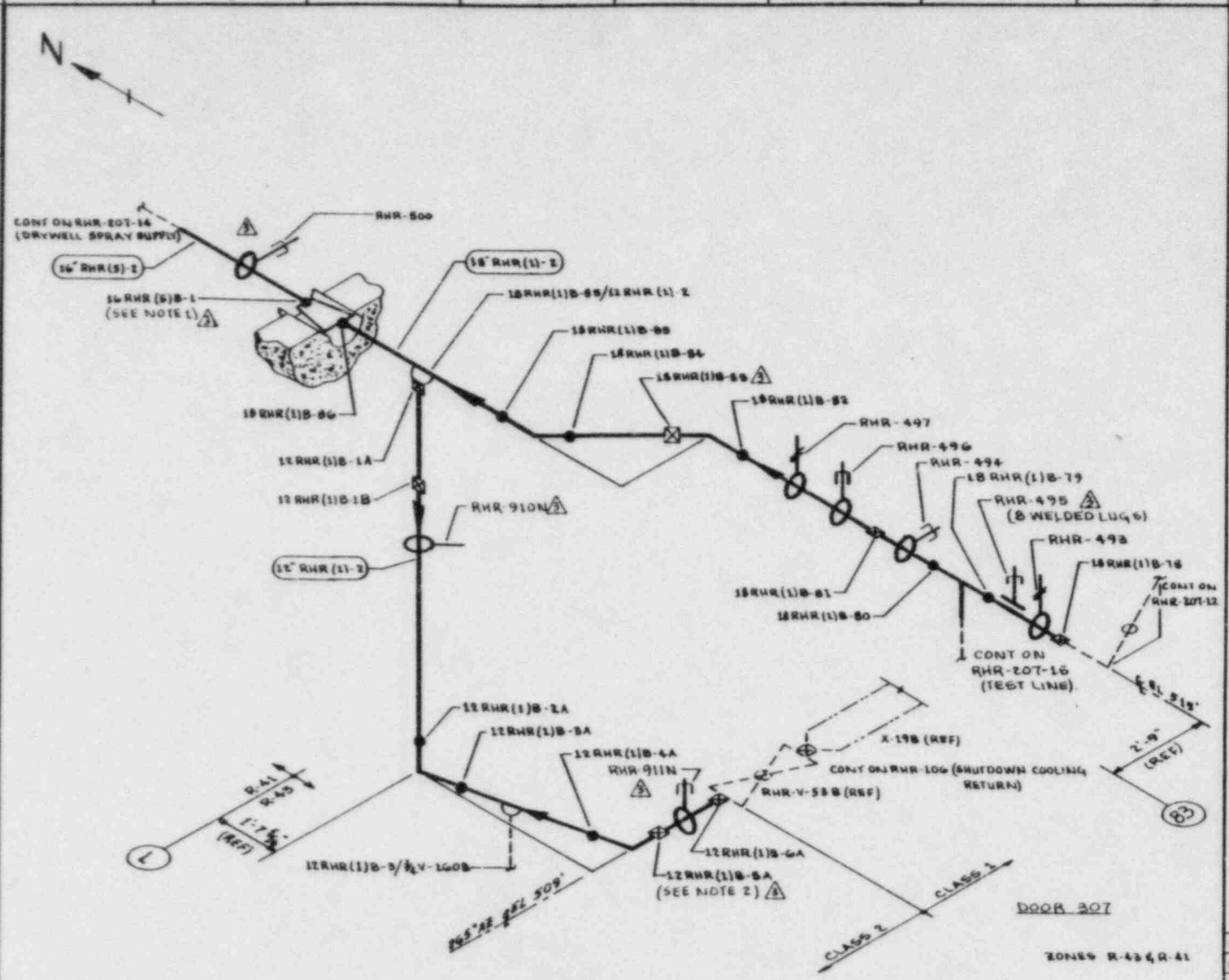
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP B

SUPPLY FROM RHR-HX-1B

DWG NO: RHR-207-12 | REV 2



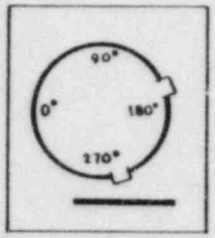
NOTES:

1. ACCESS TO WELD 16 RHR(5)B-1 REQUIRES REMOVAL OF RHR-500.
2. ACCESS TO WELD 12 RHR(1)B-6A REQUIRES REMOVAL OF RHR-911N.
3. LADDER IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-18,19	REV 5
RHR-899-45	REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2		
ENGR G.A. KUGLER	DRAWN K.M.A.	DATE 6-13-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-26-80	REVISED AS NOTED	K.M.A.	[illegible]	[illegible]
2	12-28-79	REVISED AS NOTED & WELD Nº 6 ON 12" RHR (1)-2	K.M.A.	MR	[illegible]
1	11-5-80	ADDED FIELD WELD 12 RHR (1)B-1A & AS NOTED	K.M.A.	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

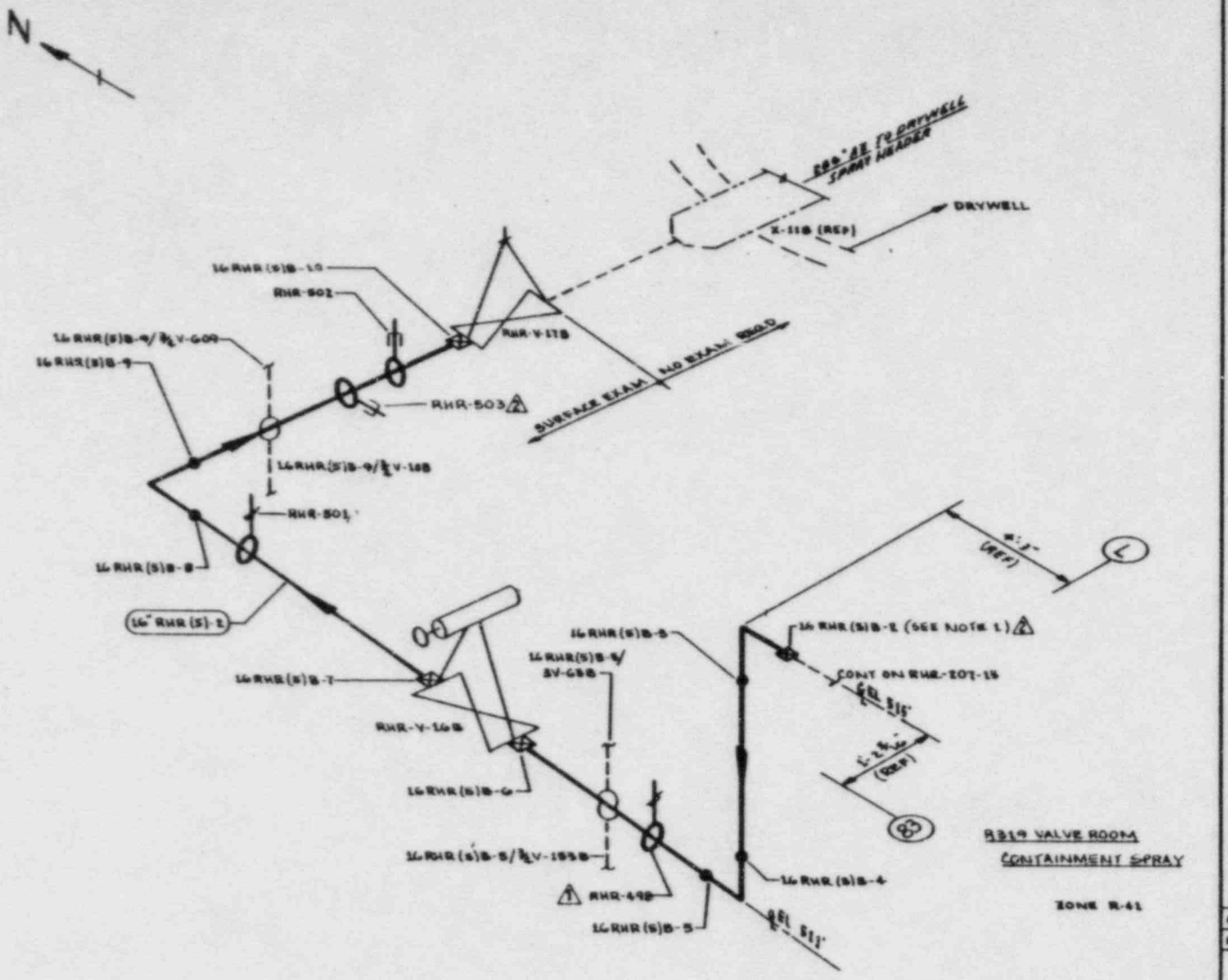
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
16" RHR (5)-2	16	40	0.500	SA 106 GR B	CS	NA
12" RHR (1)-2	12	STD	0.375	SA 106 GR B	CS	NA

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B
& SUPPLY FROM RHR-HX-1B
& SHUTDOWN COOLING RETURN

DWG NO: RHR-207-15 REV 3



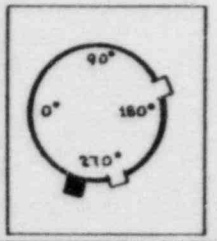
NOTES:

1. ACCESS TO WELD 16 RHR (S)B-2 REQUIRES REMOVAL OF RHR-500.
2. LADDER IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-20-22 REV 7



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR (S)-2	16	40	0.500	SA 106 GR B	CS	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	12-20-81	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	12-28-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-79	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K. McA | DATE: 6-14-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

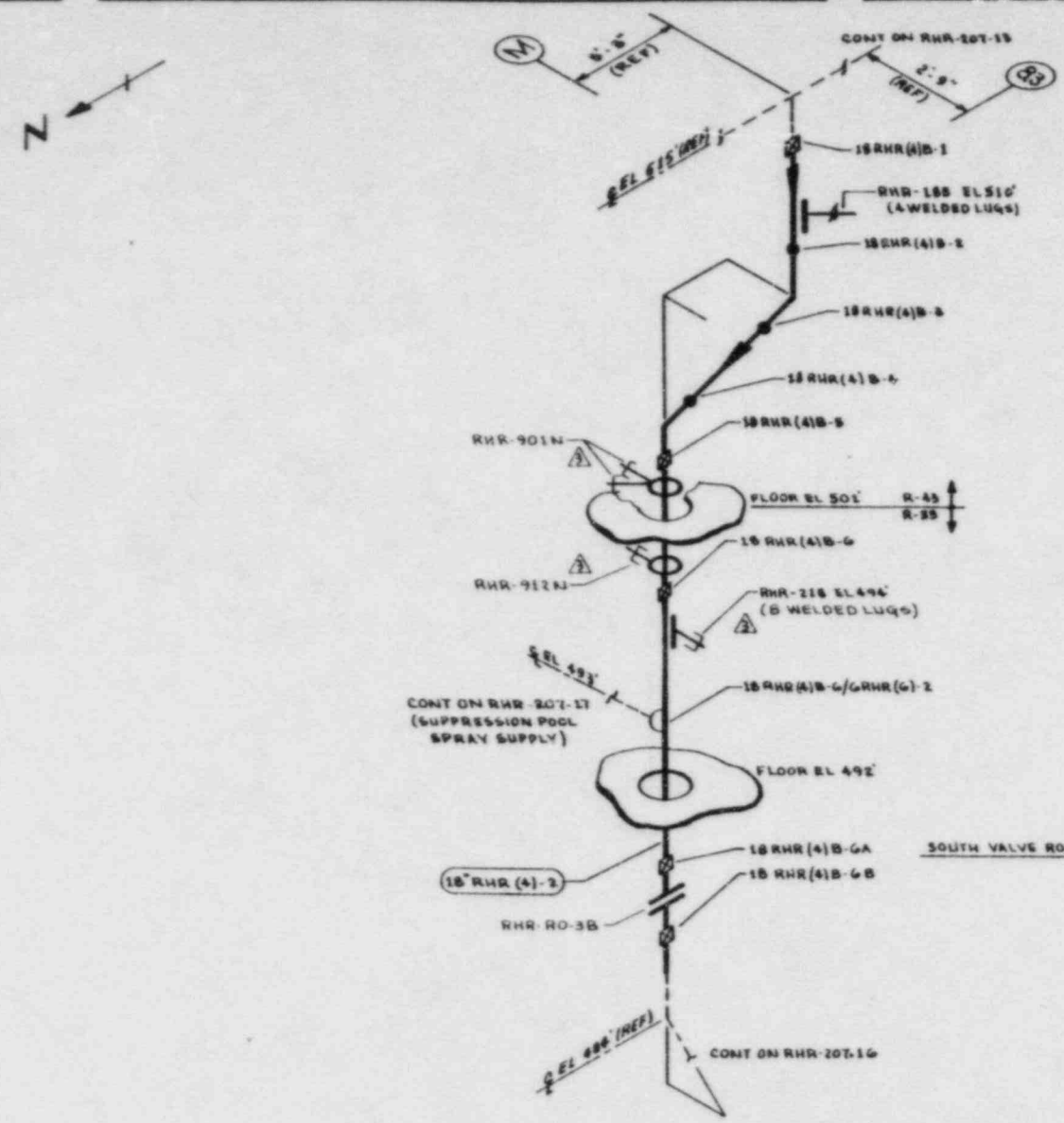
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP B

DRYWELL SPRAY SUPPLY

DWG NO: RHR-207-1A | REV 2



ZONES R-43 & R-33

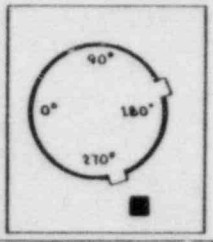
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-979-1.6 REV 11



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR G.A. KLIGLER	DRAWN V. M. C. A.	DATE 6-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

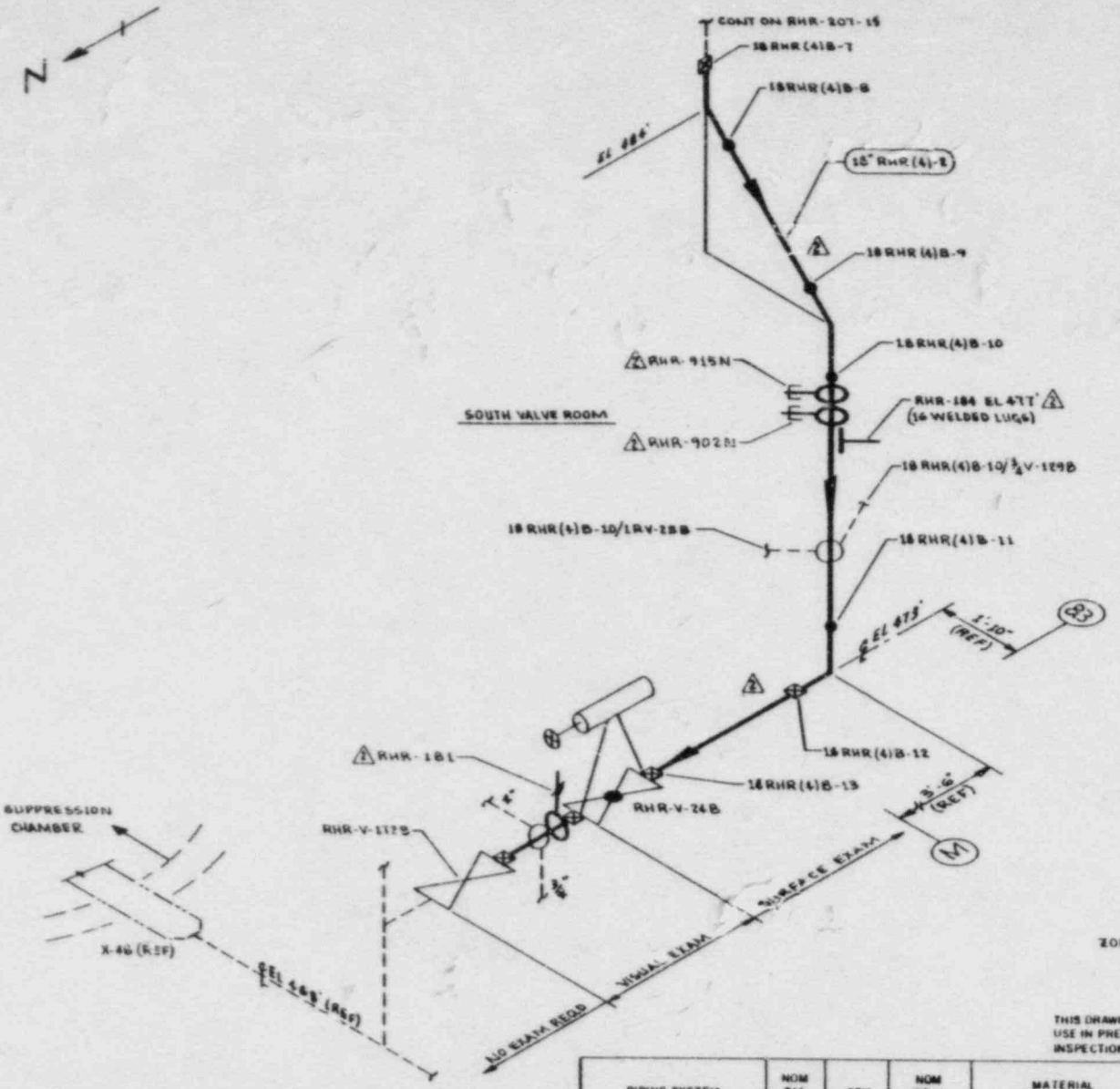
TITLE:

RHR LOOP B
TEST LINE

DWG NO: RHR-207-15 REV 3

NO	DATE	REVISION	BY	CHKD	APPVD
3	9-26-83	REVISED AS NOTED			
2	12-7-81	REVISED AS NOTED			
1	11-5-80	ADDED FLG & FW 18 RHR(4)B-6A & 6B AS NOTED			
0	7-22-79	ISSUED FOR USE			
A	9-12-78	ISSUED FOR INFORMATION ONLY			

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	30	0.438	SA 106 GR B	C.S.	N.A.



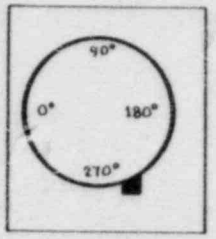
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. SCAFFOLDING IS REQUIRED. (2)

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-9TG-L-4	REV 11
RHR-9TG-S-6	REV 5



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUCKLER	DRAWN: K. M. L. A.	DATE: 6-14-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	80	0.438	SA 106 GR B	C.S.	1-1A

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-24-83	REVISED AS NOTED	K.M.L.	KPR	TEB
1	12-2-81	REVISED AS NOTED	K.M.L.	DE	TFH
0	10-27-78	ISSUED FOR USE	K.M.L.	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.M.L.	J.O.K.	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

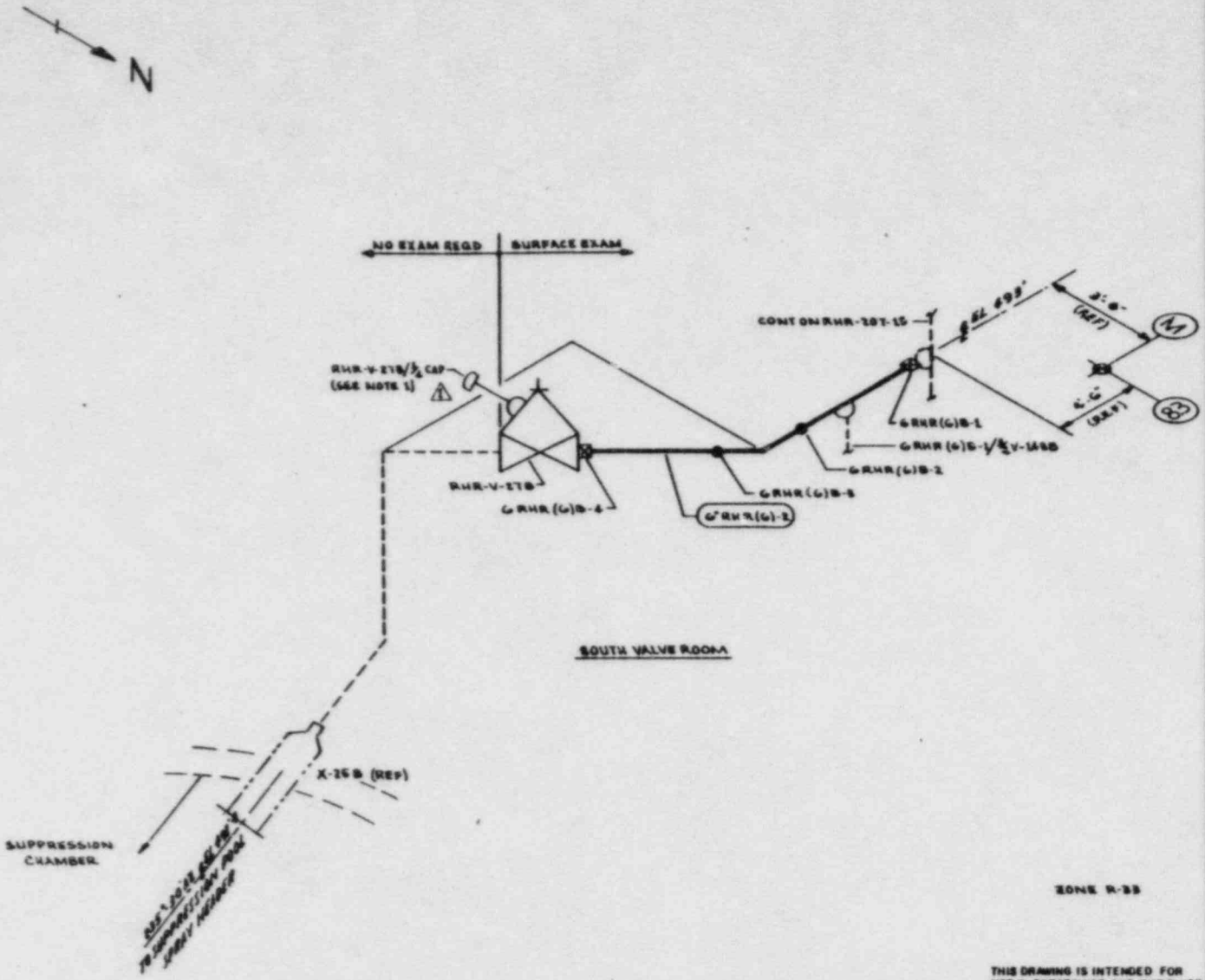
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP B TEST LINE

DWG NO: RHR-207-16 REV 2



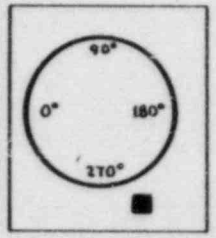
ZONE R-33

NOTES:

1. THIS IS A 3/4" CONNECTION WITH VISUAL EXAM EXTENDING TO 3/4" CAP. ⚠

REFERENCES:

BOWES & CRAIL ISOMETRIC
RHR-976-7.6 REV 8



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR(G)-2	6	40	0.280	SA 106 GR B	C-S	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-24-82	CAPPED LEAK-OFF CONNECTION	K.M.A	GMK	THK
0	3-15-78	ISSUED FOR USE	K.M.A	GMK	THK
A	9-15-76	ISSUED FOR INFORMATION ONLY	K.M.A	GMK	G.A.K

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.A. | DATE: 6-14-76

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPRESSION SPRAY SUPPLY

DWG NO: RHR-207-17 | REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-PHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
14RHR(1)B-1									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)B-4									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-923N									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-943									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3900
RHR-944									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4411
RHR-918N(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-918N									
	BOX	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
PHR-926N									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-929N									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-7/6RHR(7)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
RHR-919N									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)B-8									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-9									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-10									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-11									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-920N	BOX	IWF	F-X	VT3H				F	
RHR-924N	SPRING	IWF	F-X	VT3H				F	
RHR-924N(W)	4 WELDED LUGS	C-C	C3.40	SUR				F	
18RHR(1)B-12	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-13	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-14	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-15	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-921N	BOX	IWF	F-X	VT3H				F	
RHR-968N	ANCHOR	IWF	F-X	VT3H				F	
18RHR(1)B-16	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-17	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-540	STRUT	IWF	F-X	VT3H				F	
RHR-539	STRUT	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-18									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-548									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 630/503
18RHR(1)B-19									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-20									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-21									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-551									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3914/3940
18RHR(1)B-22									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-23									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-24									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-25									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-553									
	STRUT	IWF	F-X	VT3H				F	
RHR-552									
	STRUT	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-26									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-27									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-554									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)B-28									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-29									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-555									
	SPRING	IWF	F-X	VT3H				F	
RHR-555(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
18RHR(1)B-30									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-31									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-1002N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 4495/4418
RHR-556									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3920
RHR-980N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 11850
18RHR(1)B-32									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-33									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-34									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-35									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-36									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)B-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)B-2									
	PIPE TO NOZZLE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
6RHR(7)B-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(7)B-2									
	PIPE TO REDUCER	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(7)B-3									
	REDUCER TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-928N									
	SPRING	IWF	F-X	VT3H				F	
6RHR(7)B-4									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6"RHR(7)B-5									
	EL TO RO-18	N/A	N/A	SUR				O	
			N/A	VOL				O	
RHR-942N									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N N371/S609
RHR-922N									
	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 631
RHR-945N(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-945N									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N E130/W134
RHR-925N									
	SPRING	IWF	F-X	VT3H				F	
RHR-1020N									
	STRUT	IWF	F-X	VT3H				F	
RHR-927N									
	SPRING	IWF	F-X	VT3H				F	
RHR-967N									
	ANCHOR	IWF	F-X	VT3H				F	
RHR-967N(W)									
	WELDED SADDLE	C-C	C3.40	SUR				F	
18"RHR(11)B-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-558									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4414
RHR-557(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-557									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 4480/3928
18"RHR(11)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-2
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(11)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-559									
	SPRING	IWF	F-X	VT3H				F	
18RHR(11)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-562									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4491
RHR-561									
	STRUT	IWF	F-X	VT3H				F	
RHR-563									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N 345/361
18RHR(11)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-560									
	SPRING	IWF	F-X	VT3H				F	
18RHR(11)B-6									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)B-7									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)B-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)B-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-461									
	SPRING	IWF	F-X	VT3H				F	
18RHR(11)B-10									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)B-11									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-565									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3887
RHR-564									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4500
18RHR(11)B-12									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(11)B-13									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-609									
	SPRING	IWF	F-X	VT3H				F	
18RHR(11)B-14									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)B-3									
	NOZZLE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
20RHR(1)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
2(RHR(1)B-6									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-37									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-433									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-38									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-39									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-435									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)B-40									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-41									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-436									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)B-42									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-43									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-434									
	BOX	IWF	F-X	VT3H				F	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-44									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-45									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-46									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-47									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-48									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-49									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-438									
	STRUT	IWF	F-X	VT3H				F	
RHR-437									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 226/4456
18RHR(1)B-50									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-462									
	SPRING	IWF	F-X	VT3H				F	
RHR-54									
	SPRING	IWF	F-X	VT3H				F	
RHR-459									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-52									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 4463
14RHR(19)B-1									
	VALVE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-998N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3936
14RHR(19)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-53(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-53									
	SPRING	IWF	F-X	VT3H				F	
14RHR(19)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(19)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(19)B-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(19)B-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(19)B-8									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-51									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-463									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2391
RHR-464									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)B-52									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-468									
	SPRING	IWF	F-X	VT3H				F	
RHR-465(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-465									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N N1069/S2364
RHR-467									
	STRUT	IWF	F-X	VT3H				F	
RHR-466									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3896
18RHR(1)B-53									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-469									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-54									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-54/10RHR(5)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
RHR-956N									
	BOX	IWF	F-X	VT3H				F	
18RHR(1)B-55									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)P-56									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
10RHR(5)B-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
10RHR(5)B-2									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
10RHR(5)B-3									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-470									
	STRUT	IWF	F-X	VT3H				F	
RHR-472									
	PSA-1 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 2574
10RHR(5)B-4									
	PIPE TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-473									
	SPRING	IWF	F-X	VT3H				F	
10RHR(5)B-5									
	PIPE TO VALVE	N/A	N/A	SUR				0	
			N/A	VOL				0	
18RHR(1)P-57									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)P-57/6RHR(10)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
RHR-475									
	ANCHOR	IWF	F-X	VT3H				F	W/2 WELDED SADDLES.

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ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-475(W)									
	2 WELDED SADDLE	C-C	C3.40	SUR				F	
18RHR(1)B-58									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-59									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-60									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-478									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-61									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-62									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-479(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-479									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 292/620
RHR-480									
	STRUT	IWF	F-X	VT3H				F	
RHR-481									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY3	S/N 10739
RHR-486(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-486									
	SPRING	IWF	F-X	VT3H				F	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-63									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)B-5									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
14RHR(1)B-6									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-64									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-485									
	PSA-1C SNUBBER	IWF	F-X	VT3H				UVX3	S/N 11856
6RHR(10)B-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-2									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-3									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-476									
	BOX	IWF	F-X	VT3H				F	
6RHR(10)B-4									
	PIPE TO FLANGE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-5									
	FLANGE TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RHR(10)B-6									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-7									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-8									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-9									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-230									
	BOX	IWF	F-X	VT3H				F	
RHR-230(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
6RHR(10)B-10									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
RHR-228									
	ANCHOR	IWF	F-X	VT3H				F	
6RHR(10)B-11									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-12									
	PIPE TO TEE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-13									
	TEE TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(10)B-14									
	PIPE TO VALVE	N/A	N/A	SUR				0	
			N/A	VOL				0	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-65									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-66									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-67									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-68									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-976N									
	STRUT	IWF	F-X	VT3H				F	
18RHR(1)B-69									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-70									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-488									
	ANCHOR	IWF	F-X	VT3H				F	
18RHR(1)B-71									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-72									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-73									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(1)B-74									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-491									
	SPRING	IWF	F-X	VT3H				F	
RHR-908N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 1068/2358
RHR-492									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3950/3942
18RHR(1)B-75									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-76									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-77									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-78									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-493									
	SPRING	IWF	F-X	VT3H				F	
RHR-495									
	PSA-35 SN(2)	IWF	F-X	VT3H				UVY3	S/N 6175/6163
RHR-495(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
18RHR(1)B-79									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-80									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-494									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 13034
18RHR(1)B-81									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-496									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 13057
RHR-497									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)B-82									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-83									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-84									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-85									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(1)B-85/12RHR(1)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
18RHR(1)B-86									
	PIPE TO REDUCER	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)B-1A									
	WOL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)B-1B									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-910N									
	STRUT	IWF	F-X	VT3H				F	
12RHR(1)B-2A									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)B-3A									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)B-4A									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
12RHR(1)B-5A									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-911N									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY3	S/N 7039
12RHR(1)B-6A									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)B-1									
	REDUCER TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-500									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 699
16RHR(5)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
16RHR(5)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-498									
	SPRING	IWF	F-X	VT3H				F	
16RHR(5)B-6									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)B-7									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-501									
	SPRING	IWF	F-X	VT3H				F	
16RHR(5)B-8									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
16RHR(5)B-9									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-503									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY3	S/N 8687
RHR-502									
	PSA-35 SNUBBER	IWF	F-X	VT3H				UVY3	S/N 6178
16RHR(5)B-10									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-1									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-185(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-185									
	SPRING	IWF	F-X	VT3H				F	
18RHR(4)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-901N									
	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 491
RHR-912N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 15469
18RHR(4)B-6									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-218(W)									
	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-218									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	S/N W104/E308
18RHR(4)B-6/6RHR(6)-2									
	BRANCH CONN	C-F-2	C5.81	SUR				F8	
18RHR(4)B-6A									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-6B									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(4)B-7									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-8									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-9									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-10									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-915N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 104
RHR-902N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 303
RHR-184(W)									
	16 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-184									
	STRUT	IWF	F-X	VT3H				F	
18RHR(4)B-11									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-12									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(4)B-13									
	PIPE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-181									
	SPRING	IWF	F-X	VT3H				F	

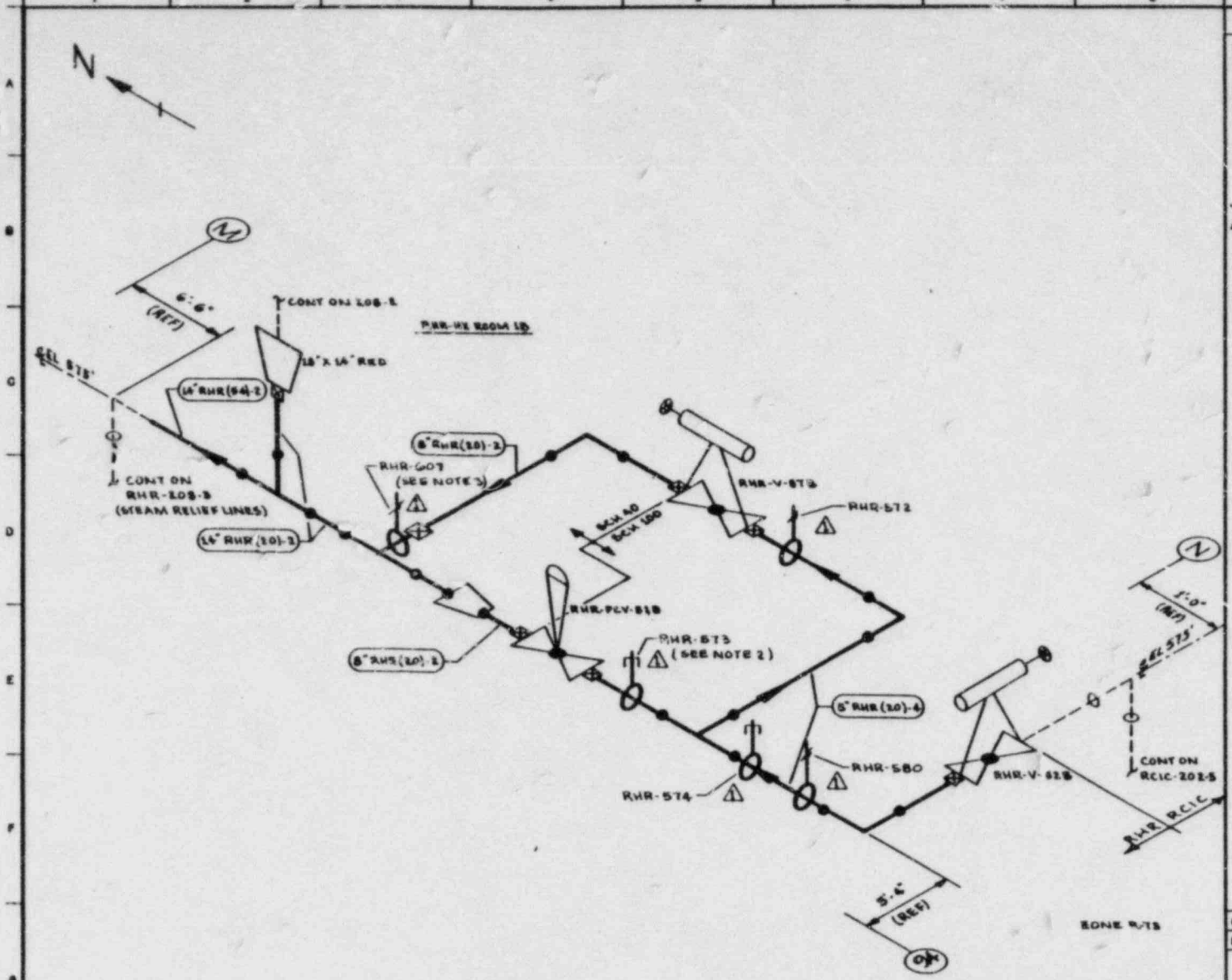
WNP-02
INTERVAL: 01
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
6RHR(6)B-1									
	WOL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)B-2									
	PIPE TO EL	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)B-3									
	EL TO PIPE	N/A	N/A	SUR				0	
			N/A	VOL				0	
6RHR(6)B-4									
	PIPE TO VALVE	N/A	N/A	VOL				0	
			N/A	SUR				0	
RHR-937N									
	RIGID	IWF	F-X	VT3H				F	
RHR-962N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	
RHR-931N									
	SPRING	IWF	F-X	VT3H				F	
RHR-906N									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-914N									
	PSA-10 SNUBBER	IWF	F-X	VT3H				UVX3	
RHR-183									
	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-932N									
	SPRING	IWF	F-X	VT3H				F	
RHR-913N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N
RHR-903N									
	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-219	SPRING	IWF	F-X	VT3H				F	S/N
RHR-PB-207(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-207(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



NOTES:

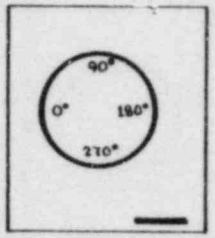
1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAMINATION FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. CLAMP IS STAMPED RCIC-918N.
3. NAME PLATE IS STAMPED RHR-72. ATTACHMENT IS STAMPED RHR-607.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-[illegible]-15 REV 8
RHR-895-16.17 REV 9

KEY PLAN



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RHR (20)-4	8	100	0.594	SA 106 GR B	CS	NA
8" RHR (20)-2	8	40	0.322	SA 106 GR B	CS	NA
14" RHR (20)-2	14	STD	0.375	SA 106 GR B	CS	NA
14" RHR (54)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	4-26-83	REVISED AS NOTED	KMA	APE	TFH
0	11-17-78	ISSUED FOR USE	EMA	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	EMA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

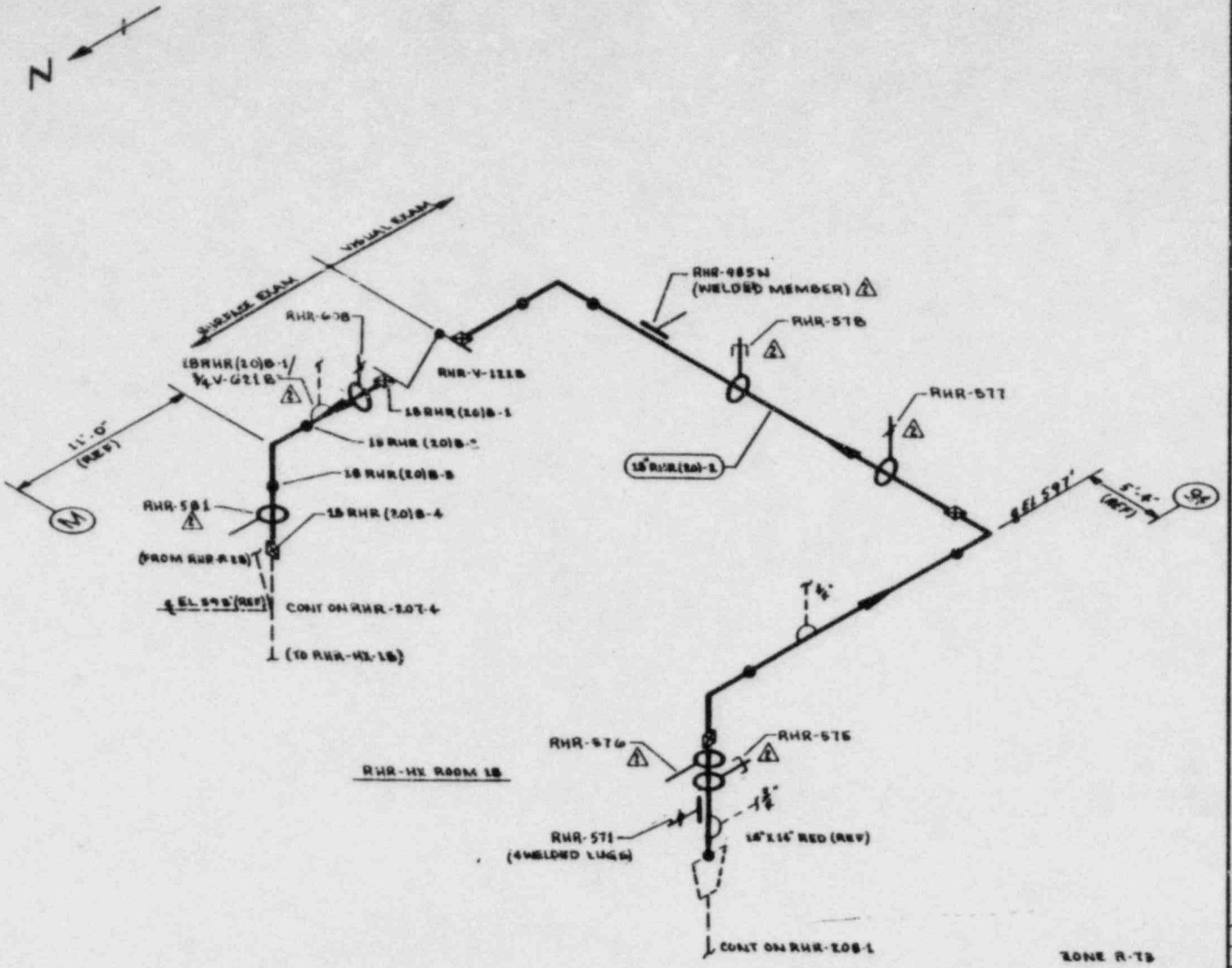
ENGR: GA KUGLER | DRAWN: K. McA | DATE: 6-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B
RCIC STEAM SUPPLY TO RHR-HX-1B

DWG NO: RHR-208-1 | REV 1



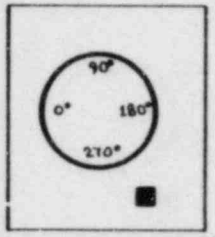
NOTES:

1. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINE) EXTEND VISUAL EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
2. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-898-16.1T	REV 9
RHR-898-18.20	REV 6



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (20)-2	18	80	0.438	SA 106 GR B	C-S	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-83	REVISED AS NOTED	[illegible]	[illegible]	TTH
1	12-2-81	REVISED AS NOTED	[illegible]	[illegible]	TTH
0	3-15-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-11-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

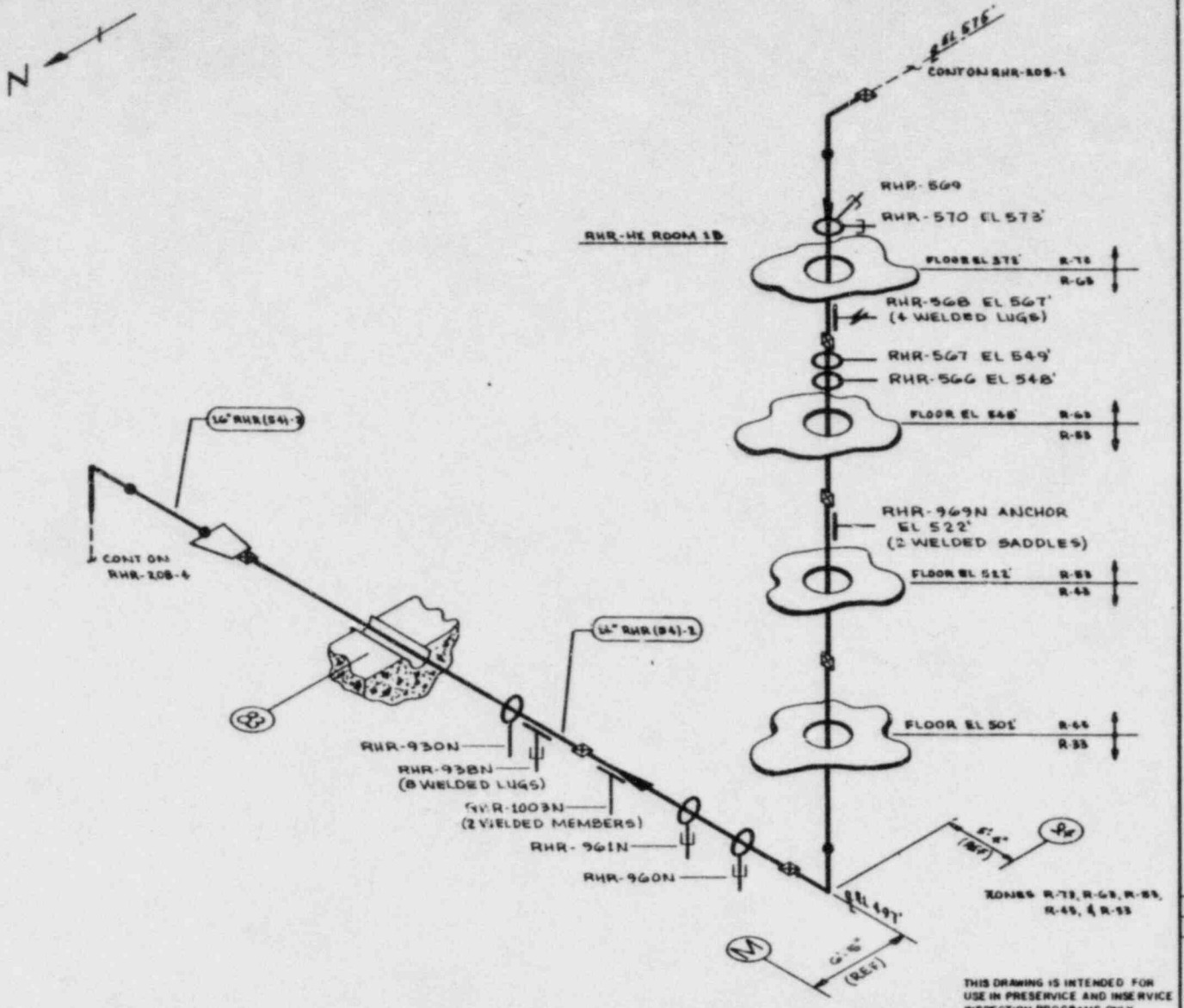
ENGR: G.A. KLIGLER | DRAWN: K. McA. | DATE: 6-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RCIC STEAM SUPPLY TO RHR-HX-1B

DWG NO: RHR-208-2 | REV 2

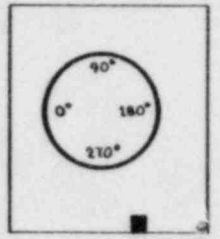


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM. FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. THE VERTICAL RUN OF PIPE IS IN PIPE CHASE BEHIND REMOVABLE SHIELD WALLS.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-898-21.29 REV 11



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K. M. & A.
	DATE: 6-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

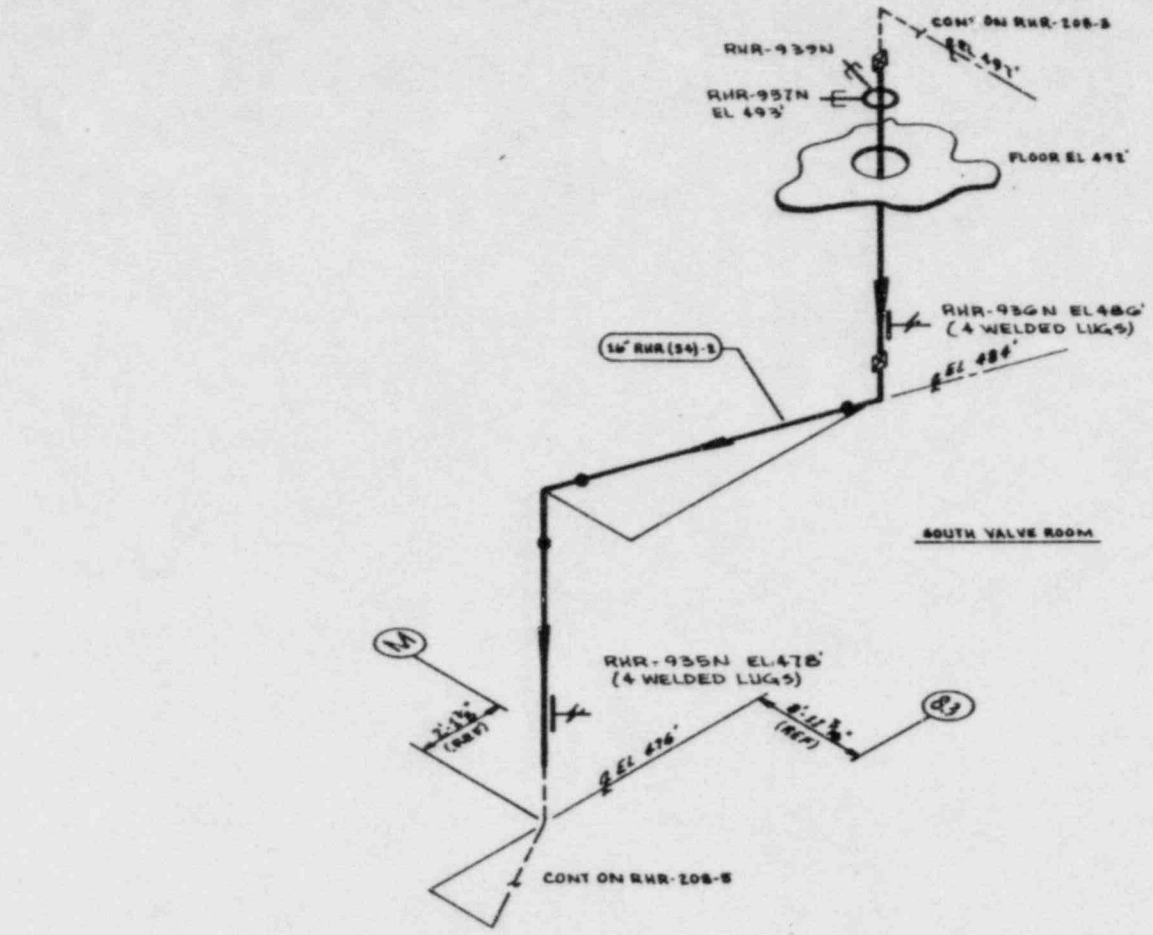
PIPING SYSTEM	NOM DIAM (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14 RHR (B4)-2	14	STD	0.375	SA 106 GR B	CS	N.A.
16 RHR (B4)-2	16	40	0.500	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-14-83	ADDED HANGERS & NOTE 2	[illegible]	[illegible]	TFH
0	11-11-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-15-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
R.C.I.C. STEAM RELIEF LINES TO SUPPRESSION POOL

DWG NO: RHR-208-3 REV 1



ZONE R-35

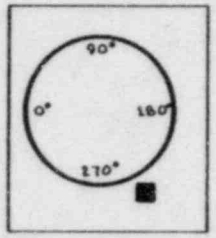
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRIC

RHR-898-11.29 REV 11



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K.M.C.A.	DATE: 6-26-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR(54)-2	16	40	0.500	SA 106 GR B	CS	NA

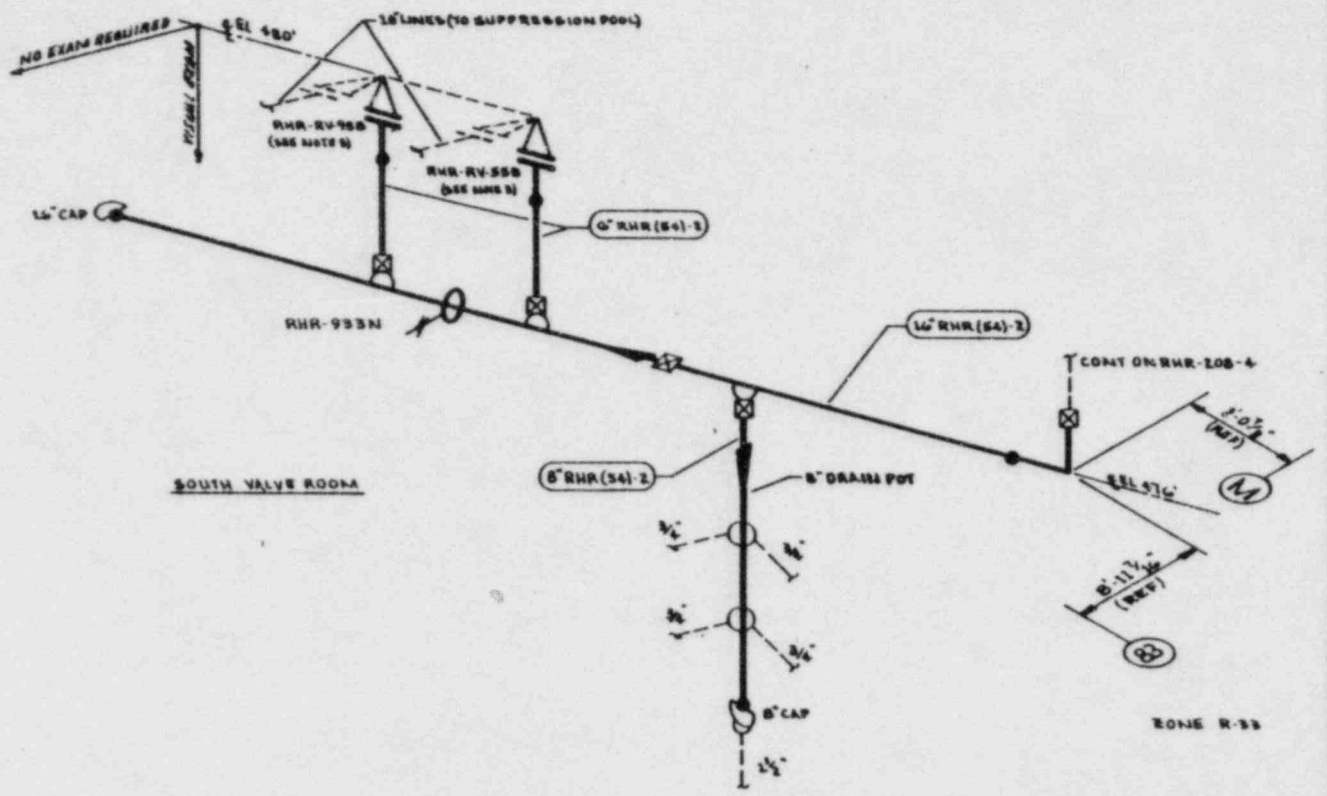
NO	DATE	REVISION	BY	CHKD	APPVD
1	12-14-84	ADDED HANGERS	K.M.C.A.	[illegible]	[illegible]
0	12-27-78	ISSUED FOR USE	K.M.C.A.	[illegible]	[illegible]
A	9-29-78	ISSUED FOR INFORMATION ONLY	K.M.C.A.	[illegible]	G.A.K.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RCIC STEAM RELIEF LINES TO SUPPRESSION POOL

DWG NO: RHR-208-4 REV 1

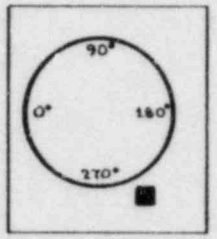


NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE TWO LINES TO THE SUPPRESSION POOL FROM RHR-RV-56B & RHR-RV-95B ARE OPEN ENDED & THEREFORE EXEMPT FROM EXAM.

REFERENCES:

BOVEN & CRAIL ISOMETRIC
RHR-898-30-32 REV 8



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR(54)-2	16	40	0.500	SA 106 GR B	CS	NA
8" RHR(54)-2	8	40	0.322	SA 106 GR B	CS	NA
6" RHR(64)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-14-83	ADDED HANGER, FIELD WELD IN E-5	[illegible]	[illegible]	TFH
0	12-28-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 6-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RCIC STEAM RELIEF LINES TO SUPPRESSION POOL

DWG NO: RHR-208-5 | REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(20)-2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-580	SPRING	N/A	N/A	N/A				OT	
RHR-574	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-573	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-572	SPRING	N/A	N/A	N/A				OT	
RHR-607	SPRING	N/A	N/A	N/A				OT	
RHR-571	SPRING	N/A	N/A	N/A				OT	
RHR-575	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-576	STRUT	N/A	N/A	N/A				OT	
RHR-577	SPRING	N/A	N/A	N/A				OT	
RHR-578	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-985N	STRUT	N/A	N/A	N/A				OT	
18RHR(20)B-1	VALVE TO PIPE	C-F-2	C5.51	SUR				F	
RHR-608	SPRING	IWF	F-X	VT3H				F	
18RHR(20)B-2	PIPE TO EL	C-F-2	C5.51	SUR				F	
18RHR(20)B-3	EL TO PIPE	C-F-2	C5.51	SUR				F	
RHR-581	STRUT	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(20)-2
DESCRIPTION: LOOP B SPLY-PHR HX1B

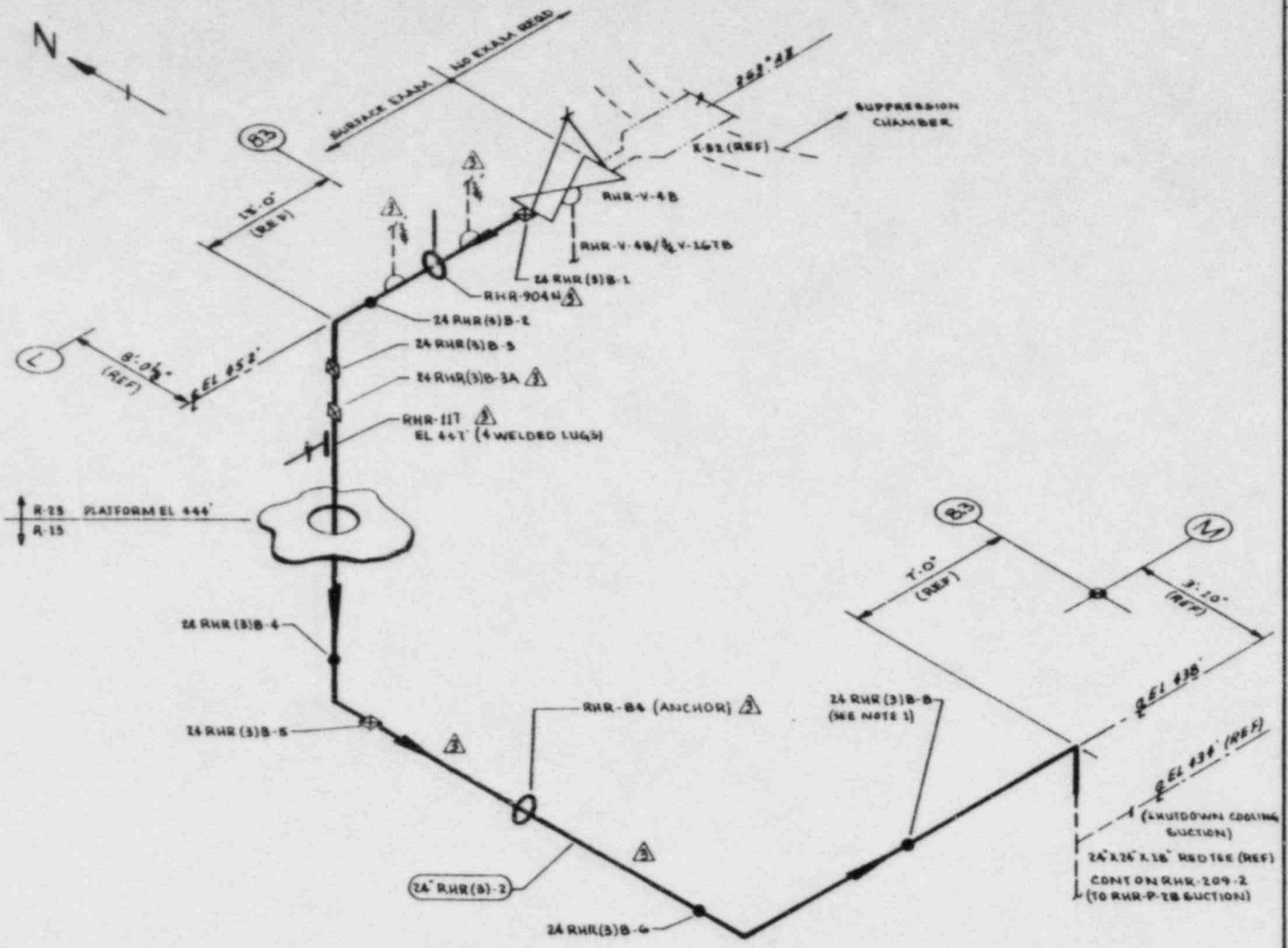
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(20)B-4	PIPE TO TEE	C-F-2	C5.51	SUR				F	
RHR-569	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-570	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-568	SPRING	N/A	N/A	N/A				OT	
RHR-567	STRUT	N/A	N/A	N/A				OT	
RHR-566	STRUT	N/A	N/A	N/A				OT	
RHR-969N	ANCHOR	N/A	N/A	N/A				OT	
RHR-960N	PSA-1 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-961N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-1003N	STRUT	N/A	N/A	N/A				OT	
RHR-938N	PSA-1 SN(2)	N/A	N/A	N/A				OT	S/N
RHR-930N	STRUT	N/A	N/A	N/A				OT	
RHR-939N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-957N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-936N	SPRING	N/A	N/A	N/A				OT	
RHR-935N	SPRING	N/A	N/A	N/A				OT	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(20)-2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-933N									
	SPRING	N/A	N/A	N/A				OT	
RHR-PE-208(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				OT	
			C7.21	VT-2				OT	

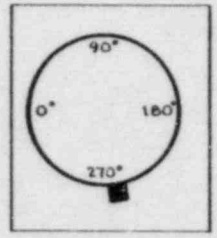


NOTES:

1. WELD 24 RHR (3)B-6 IS FITTING TO FITTING.
2. SCAFFOLD IS REQUIRED.

REFERENCES:

BOYER & CRAIL ISOMETRICS
RHR-879-1.3 REV 6



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K. Mc A.
DATE: 6-19-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	10-15-82	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
2	12-2-81	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
1	11-5-80	DELETED WELD 24 RHR (3)B-6, ADDED NOTE 1.	[illegible]	[illegible]	[illegible]
0	10-29-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

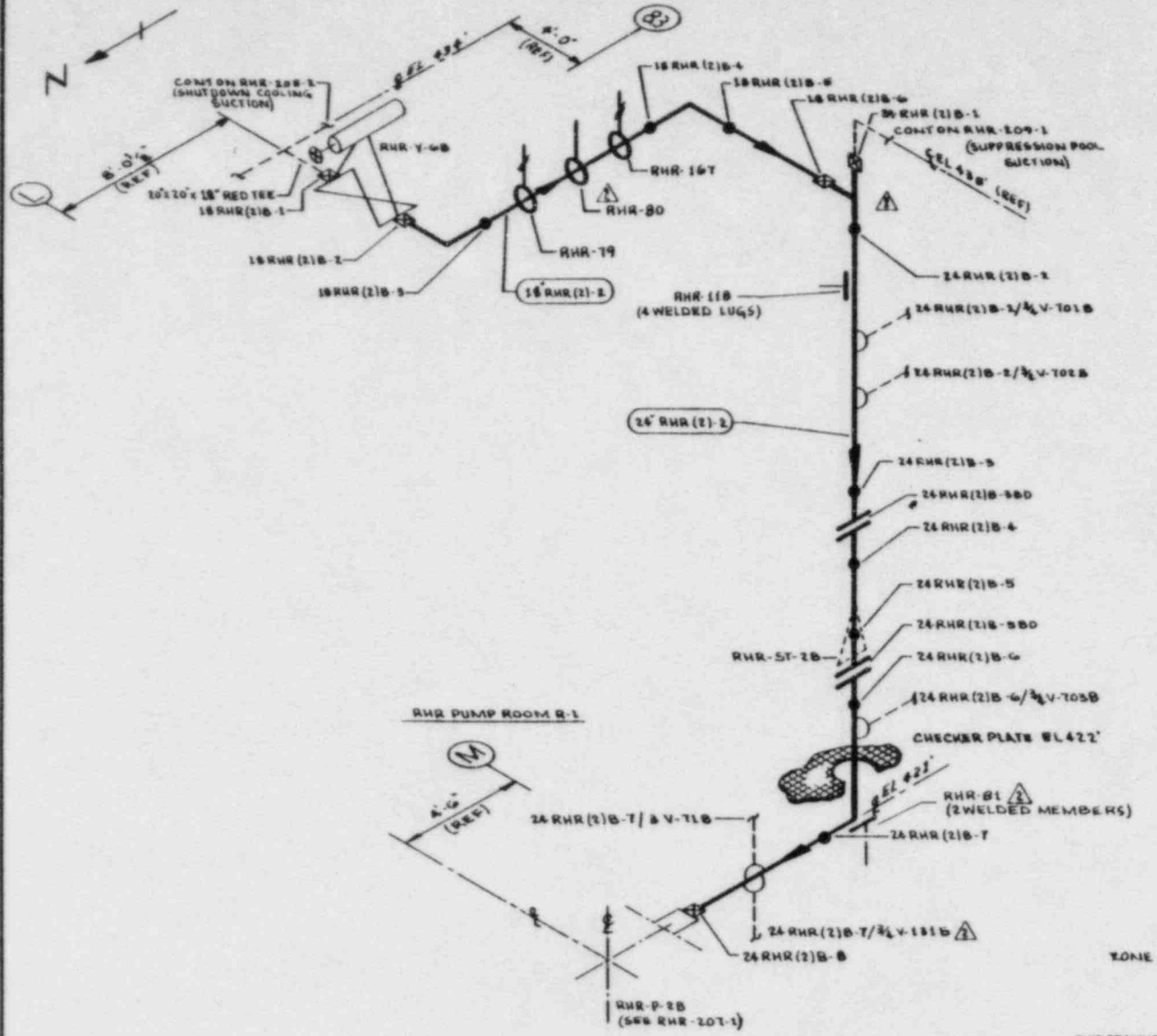
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RHR (3)-2	24	STD	0.375	SA 106 GR B	CS	NA

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPRESSION POOL SUCTION

DWG NO: RHR-209-1 REV 3

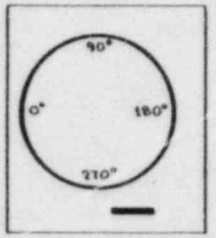


NOTES:

1. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-BTS-9.12 REV. 6



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(2)-2	18	STD	0.375	SA 106 GR B	CS	NA
24" RHR(2)-2	24	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	9-26-85	REVISED AS NOTED	K.M.A	CHK	TFH
1	12-2-81	REVISED AS NOTED	K.M.A	[illegible]	TFH
0	11-13-78	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR G.A. KUGLER | DRAWN: K. Mc A | DATE: 6-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SHUTDOWN COOLING SUCTION

DWG NO: RHR-209-2 | REV 2

WNP-02
INTERVAL: 01
DRAWING NO. RHR-209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
24RHR(3)B-1									
	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-904N									
	STRUT	IWF	F-X	VT3H				F	
24RHR(3)B-2									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)B-3A									
	PIPE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-117(W)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-117									
	SPRING	IWF	F-X	VT3H				F	
24RHR(3)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-84									
	ANCHOR	IWF	F-X	VT3H				F	
24RHR(3)B-6									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(3)B-8									
	EL TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

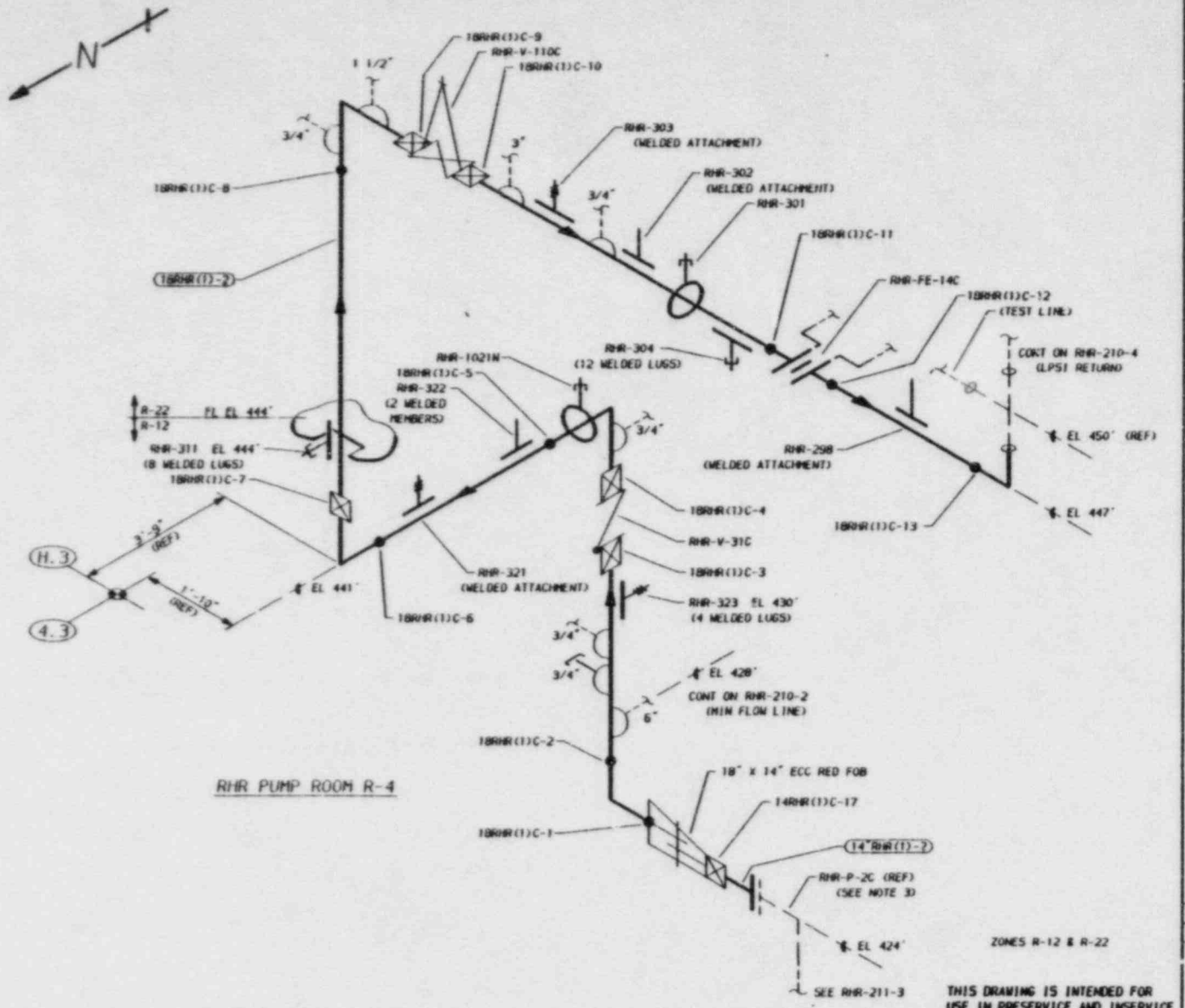
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
18RHR(2)B-1									
	TEE TO VALVE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)B-2									
	VALVE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)B-3									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-79									
	SPRING	IWF	F-X	VT3H				F	
RHR-80									
	STRUT	IWF	F-X	VT3H				F	
RHR-167									
	SPRING	IWF	F-X	VT3H				F	
18RHR(2)B-4									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)B-5									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(2)B-6									
	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-1									
	EL TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-2									
	TEE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-118(N)									
	4 WELDED LUGS	C-C	C3.40	SUR				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-02
INTERVAL: 01
DRAWING NO. RHR-209

SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-118									
	SPRING	IWF	F-X	VT3H				F	
24RHR(2)B-3									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-4									
	FLANGE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-5									
	PIPE TO FLANGE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-6									
	FLANGE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-81									
	STRUT	IWF	F-X	VT3H				F	
24RHR(2)B-7									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
24RHR(2)B-8									
	PIPE TO PUMP	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-PR-209(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PR-209(H)									
	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

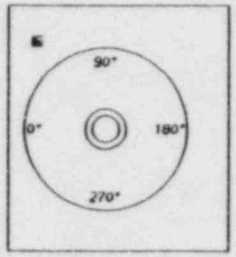
NOTES:

1. THIS DRAWING IDENTIFIES PIPING AND COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" NOM. OR LESS (CONNECTION SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE, OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM OF RHR-P-2C VENTS AND DRAINS TO OUTERMOST NORMALLY CLOSED VALVE.
4. SCAFFOLDING IS REQUIRED.

REFERENCES:

BOVEE AND CRAIL ISOMETRIC

RHR-857-1.2	REV 7
RHR-857-3.5	REV 9



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14"RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA
18"RHR(1)-2	18	30	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CH&D	APVD
1	10-15-85	REVISED HANGERS. REDRAWN	K-McA	TFH DMP	LFB
0	12-22-78	ISSUED FOR USE	K-McA	GAK	DMP
A	9-12-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DMP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

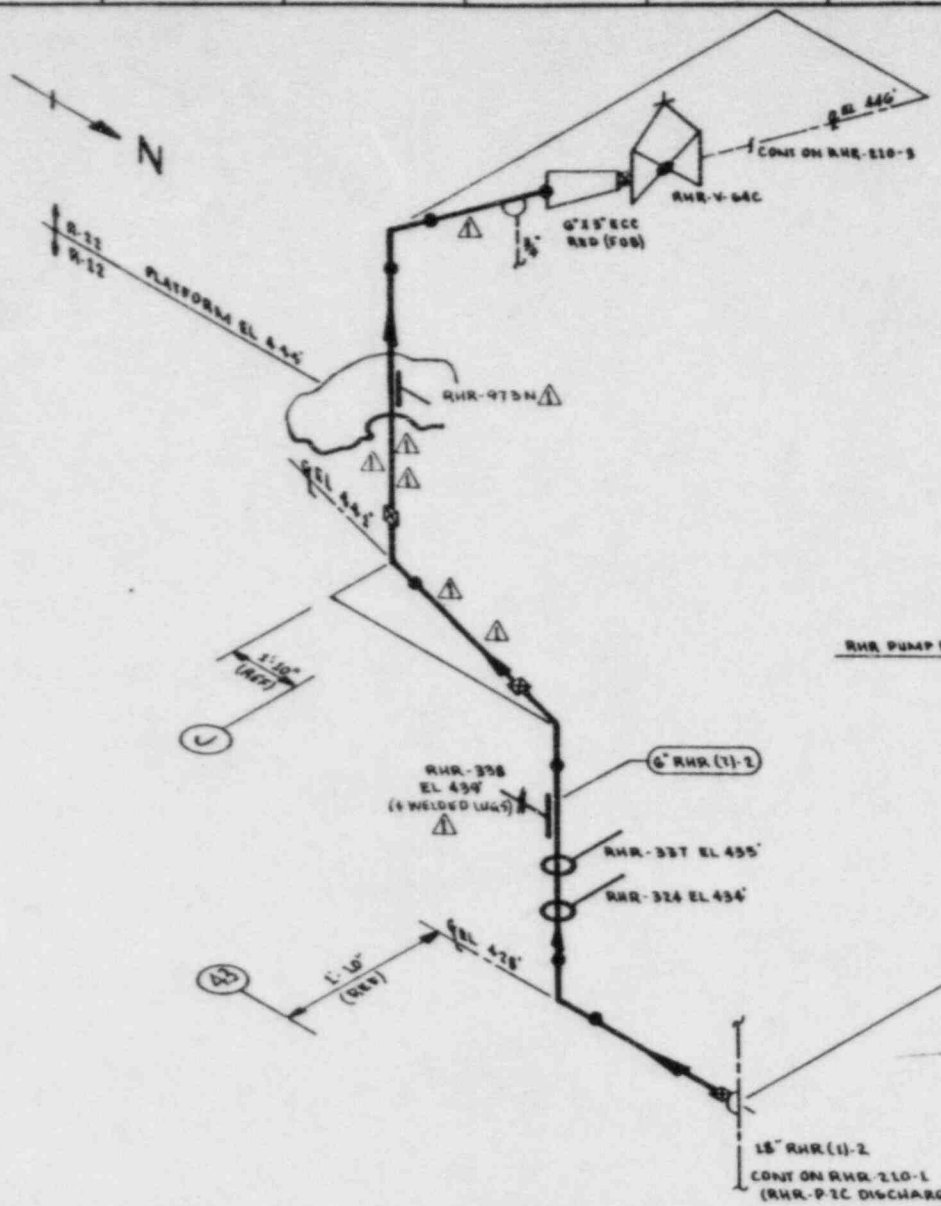
ENGR. GA KUGLER | DRAWN. K-McA | DATE. 6-19-78

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP C
SUPPRESSION POOL SUCTION

DWG NO. RHR-210-1 | REV 1



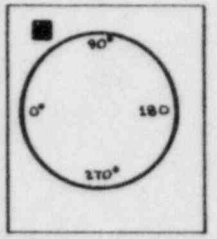
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-897-28.30 REV 0



KEY PLAN

QUALITY CLASS: 1		ASME CODE CLASS 2	
ENGR G.A. KUGLER	DRAWN K. McA.	DATE 6-20-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (T)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-8-83	REVISED AS NOTED	K.McA.	EAPK	TFW
0	12-22-78	ISSUED FOR USE	K.McA.	EAPK	TFW
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.McA.	EAPK	TFW

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND WASHINGTON 99352

WNP-2

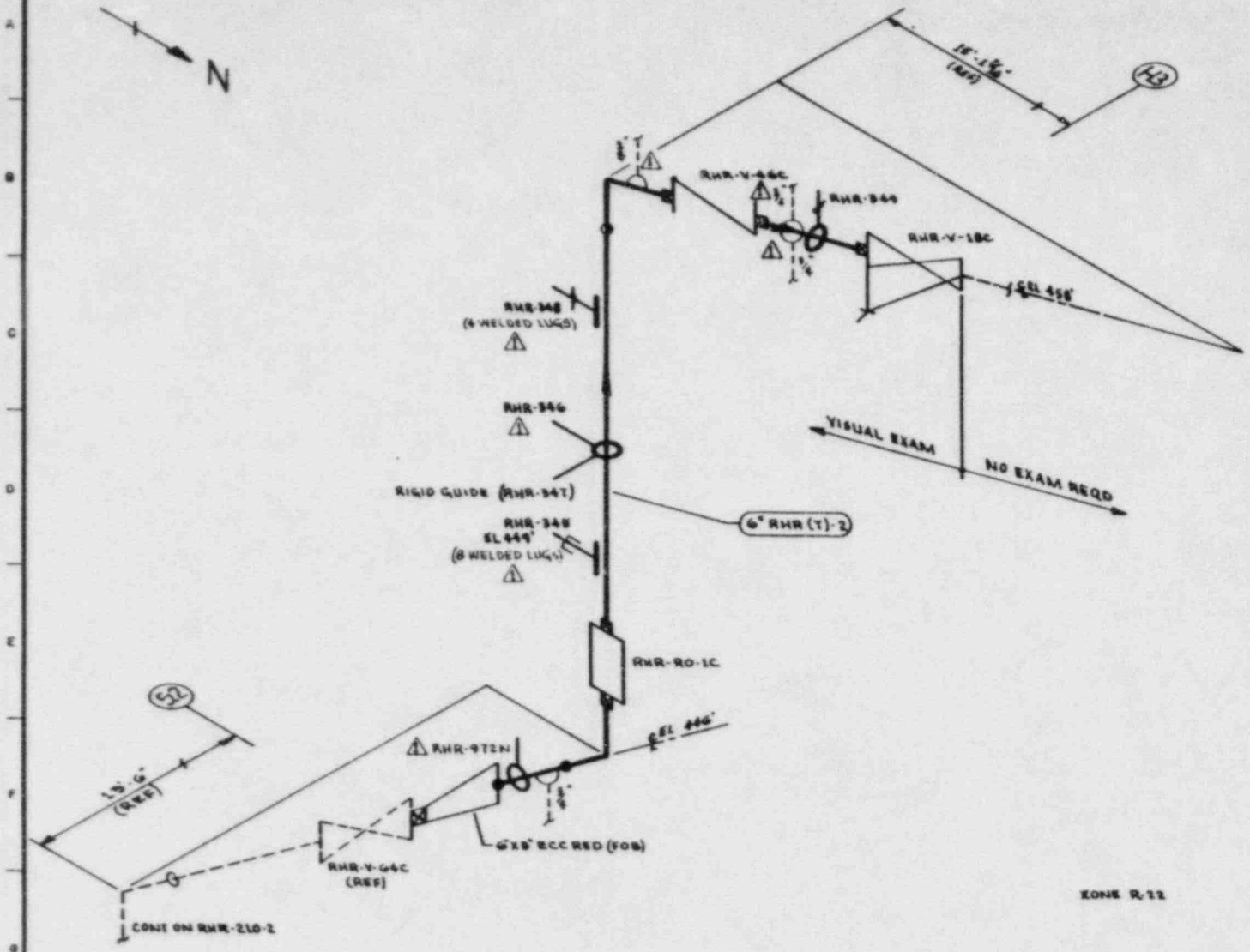
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP C

MINIMUM FLOW LINE TO SUPPRESSION POOL

DWG NO: RHR-210-2 REV 1



ZONE R-22

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

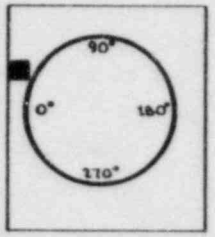
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-897-25.30 REV 0



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (T)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-24-98	REVISED AS NOTED	K.McA	CMK	TFA
0	11-27-78	ISSUED FOR USE	K.McA	CMK	TFA
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.McA	CMK	TFA

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR G.A. KUGLER | DRAWN K.McA | DATE 6-20-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

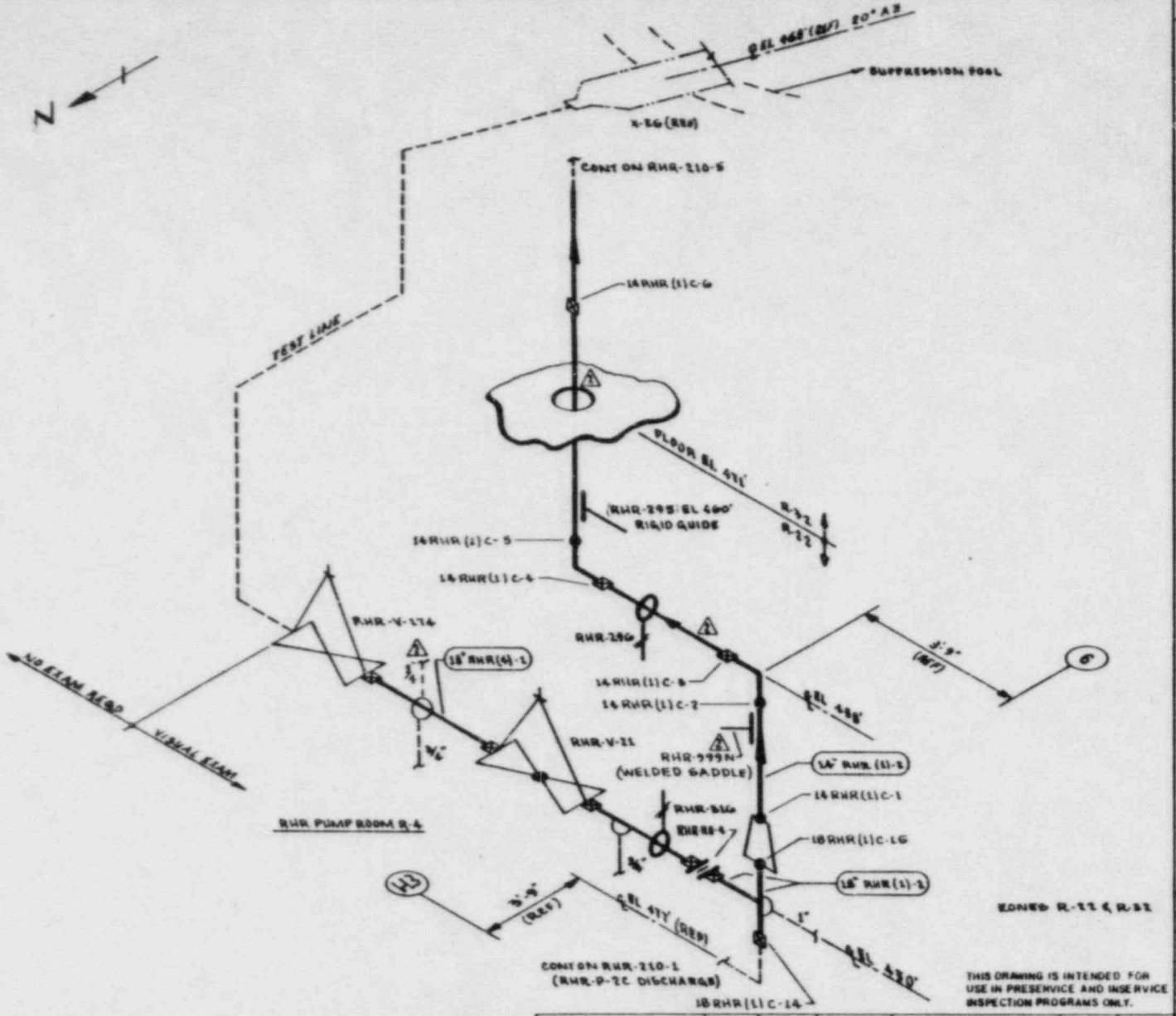
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP C

MINIMUM FLOW LINE TO SUPPRESSION POOL

DWG NO: RHR-210-3 | REV 1



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TEST. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. THE FOLLOWING WELDS REQUIRE A SURFACE EXAM. THEY REPRESENT 10% OF THE WELDS EXEMPTED BY IWC-1220 (c).

   18 RHR (1) C-14
   14 RHR (1) C-1

REFERENCES:

BOVES & CRAIL ISOMETRICS

RHR-897-6.9	REV 11
RHR-897-10.14	REV 5

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR (1)-2	18	STD	0.438	SA 106 GR B	CS	NA
18" RHR (4)-1	18	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
2	10-15-88	NUMBERED WELDS, ADDED NOTE 3, & AS NOTED	[illegible]	[illegible]	TRP
1	12-8-88	ADDED RHR RO-4 EN F-5	[illegible]	[illegible]	[illegible]
0	12-29-88	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-23-88	ISSUED FOR INFORMATION ONLY	[illegible]	CHK	RLB

QUALITY CLASS: 1 | ASME CODE CLASS 2

ENGR G.A. KUGLER | DRAWN K. M. A | DATE 6-20-88

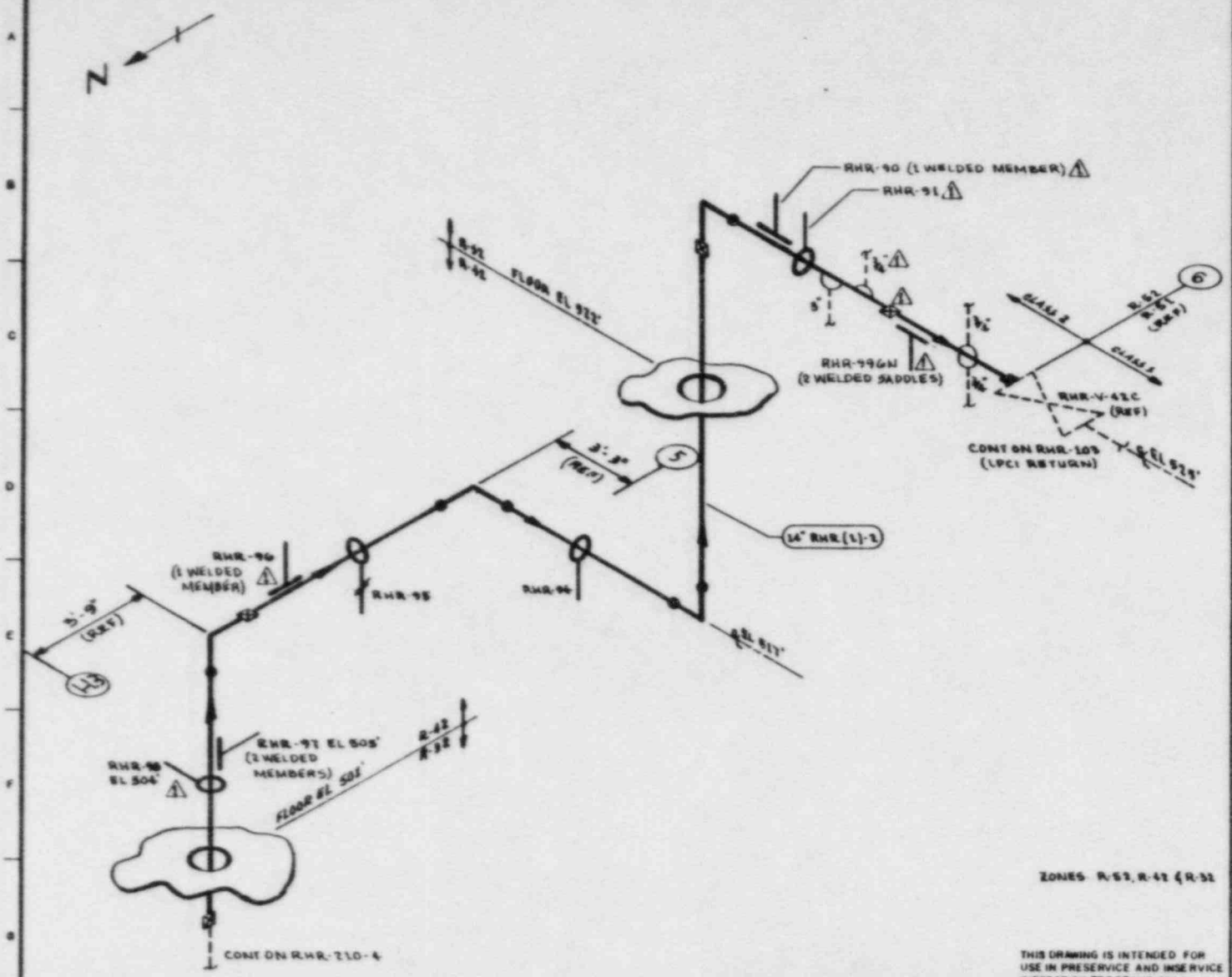
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP C/LPCI RETURN & TEST LINE

DWG NO: RHR-210-4 | REV 2



ZONES R-62, R-42 & R-32

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

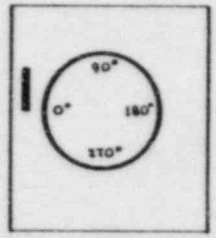
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-897-10.14	REV 7
RHR-897-15.18	REV 10



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (L)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-2-83	REVISED AS NOTED	[illegible]	[illegible]	[illegible]
0	11-11-81	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-30-81	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1		ASME CODE CLASS: 2	
ENGR G.A. KUGLER	DRAWN K. [illegible]	DATE 8-16-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP C / LPCI RETURN

DWG NO: RHR-210-5 REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-210

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: LOOP C/LPCI RETURN

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-323	SPRING	IWF	F-X	VT3H				F	
RHR-1021N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N W3947/E3930
RHR-322	BOX	IWF	F-X	VT3H				F	
RHR-321	SPRING	IWF	F-X	VT3H				F	
RHR-311	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-303	SPRING	IWF	F-X	VT3H				F	
RHR-302	STRUT	IWF	F-X	VT3H				F	
RHR-301	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 654
RHR-304	PSA-10 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-258	BOX	IWF	F-X	VT3H				F	
RHR-324	STRUT	IWF	F-X	VT3H				F	
RHR-337	STRUT	IWF	F-X	VT3H				F	
RHR-338	SPRING	IWF	F-X	VT3H				F	
RHR-973N	ANCHOR	IWF	F-X	VT3H				F	
RHR-972N	BOX	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP-02
INTERVAL: 01
DRAWING NO. RHR-219

ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: LOOP C/LPCI RETURN

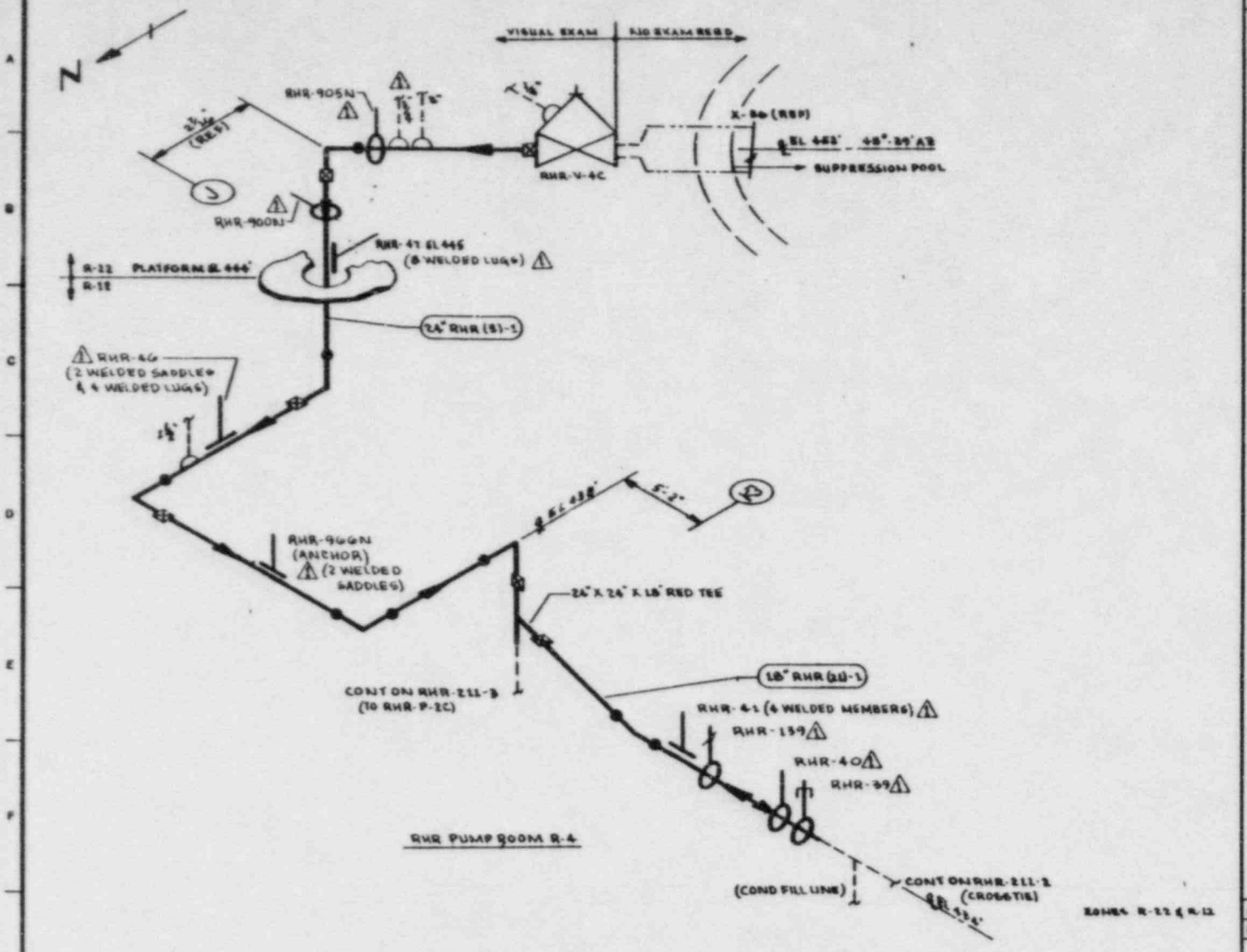
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-345									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N W570/E571
RHR-347									
	BOX	IWF	F-X	VT3H				F	
RHR-346									
	STRUT	IWF	F-X	VT3H				F	
RHR-348									
	SPRING	IWF	F-X	VT3H				F	
RHR-349									
	SPRING	IWF	F-X	VT3H				F	
RHR-316									
	SPRING	IWF	F-X	VT3H				F	
18RHR(1)C-15									
	TEE TO RED	C-F-2	C5.51	SUR				F8	RECEIVED PSI EXAM
			C5.51	VOL				F8	
14RHR(1)C-1									
	RED TO PIPE	C-F-2	C5.51	SUR				F8	RECEIVED PSI EXAM
			C5.51	VOL				F8	
RHR-999N									
	STRUT	IWF	F-X	VT3H				F	
RHR-297									
	RIGID	IWF	F-X	VT3H				F	
RHR-296									
	SPRING	IWF	F-X	VT3H				F	
14RHR(1)C-14									
	PIPE TO EL	C-F-2	C5.51	SUR				F8	RECEIVED PSI EXAM
			C5.51	VOL				F8	
14RHR(1)C-15									
	EL TO PIPE	C-F-2	C5.51	SUR				F8	RECEIVED PSI EXAM
			C5.51	VOL				F8	
RHR-295									
	BOX	IWF	F-X	VT3H				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-210

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: LOOP C/LPCI RETURN

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-99	ANCHOR	IWF	F-X	VT3H				F	
RHR-98	STRUT	IWF	F-X	VT3H				F	
RHR-97	BOX	IWF	F-X	VT3H				F	
RHR-96	BOX	IWF	F-X	VT3H				F	
RHR-95	SPRING	IWF	F-X	VT3H				F	
RHR-94	STRUT	IWF	F-X	VT3H				F	
RHR-90	BOX	IWF	F-X	VT3H				F	
RHR-91	STRUT	IWF	F-X	VT3H				F	
RHR-996N	ANCHOR	IWF	F-X	VT3H				F	
RHR-318	RIGID	IWF	F-X	VT3H				F	
RHR-319	RIGID	IWF	F-X	VT3H				F	
RHR-997N	ANCHOR	IWF	F-X	VT3H				F	
RHR-320	SPRING	IWF	F-X	VT3H				F	
RHR-PB-210(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-210(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



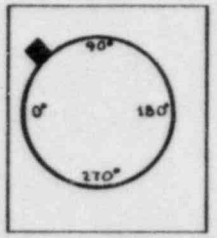
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. AT LOCATIONS WHERE LEAKAGE IS NORMALLY EXPECTED (E.G. VALVE STEM & PUMP SEAL LEAKOFF CONN) VERIFY LEAKAGE COLLECTION SYSTEM OPERABILITY ONLY. NO HYDRO TEST OF COLLECTION SYSTEM IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-882-1.4 REV B
RHR-880-1.6 REV G



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RHR (B)-1	24	STD	0.375	SA 106 GR B	CS	N.A.
18" RHR (A)-1	18	STD	0.375	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	4-6-18	REVISED AS NOTED	K.M.L.	[illegible]	[illegible]
0	3-27-18	ISSUED FOR USE	K.M.L.	[illegible]	[illegible]
A	9-27-78	ISSUED FOR INFORMATION ONLY	K.M.L.	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

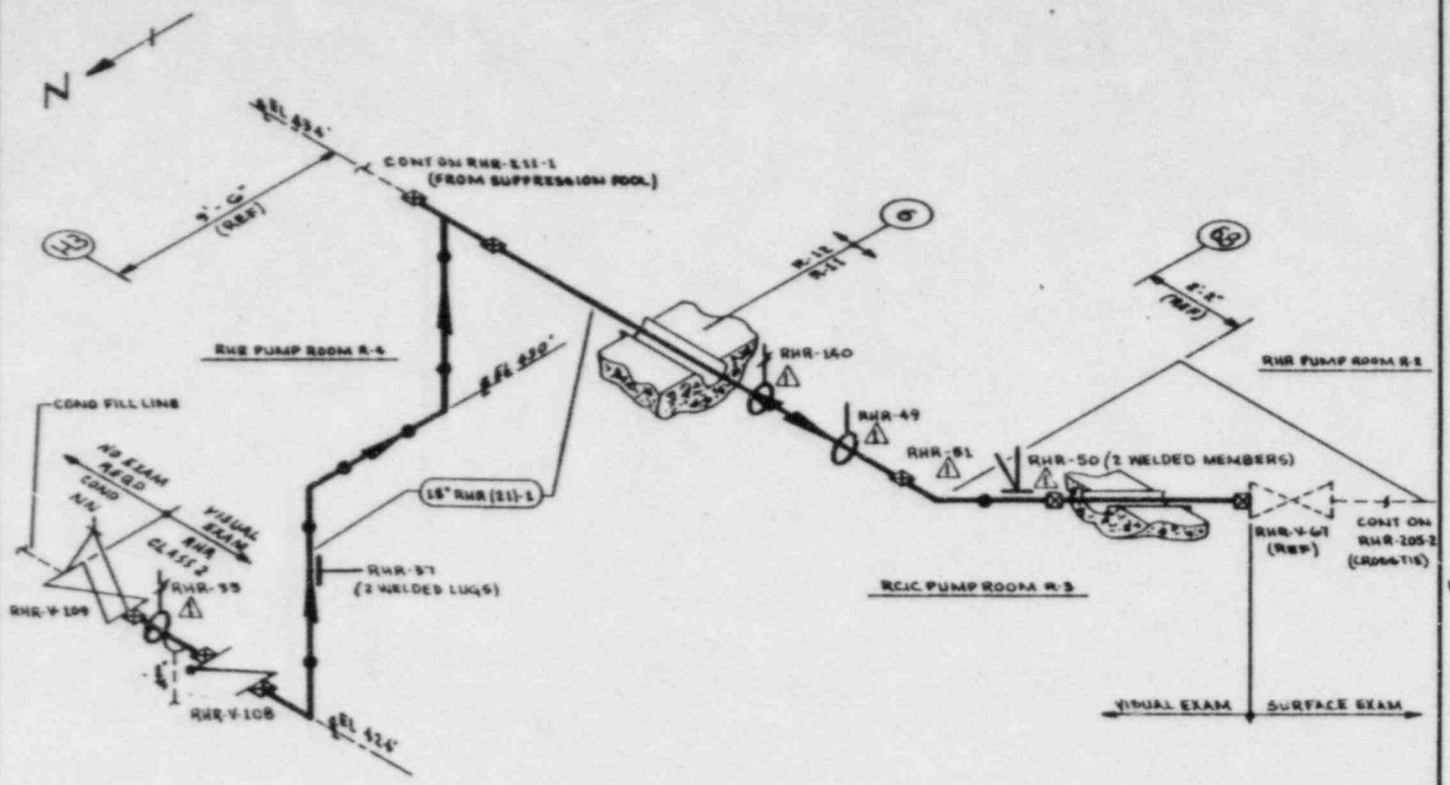
ENGR: G.A. KUGLER | DRAWN: K.M.L.A. | DATE: 6-20-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP C
SUPPRESSION POOL SUCTION & CROSSTIE

DWG NO: RHR-211-1 | REV 1



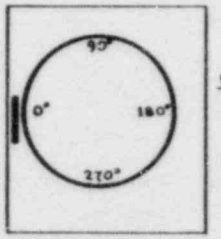
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES

BOVES & CRAIL ISOMETRIC

RHR-880-2.6 REV 6



KEY PLAN

ZONES R-11 & R-12

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (21)-1	18	STD	0.375	SA 106 GR B	C-S	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-26-85	REVISED AS NOTED	[illegible]	[illegible]	TFB
0	11-29-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: GA KLIGLER | DRAWN: K.M.C.A. | DATE: 6-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP C

CROSSTIE & COND FILL LINE

DWG NO: RHR-211-2 | REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-211

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(3)-1
DESCRIPTION: RHR-P-2C SUCTION

DATE 04/25/85

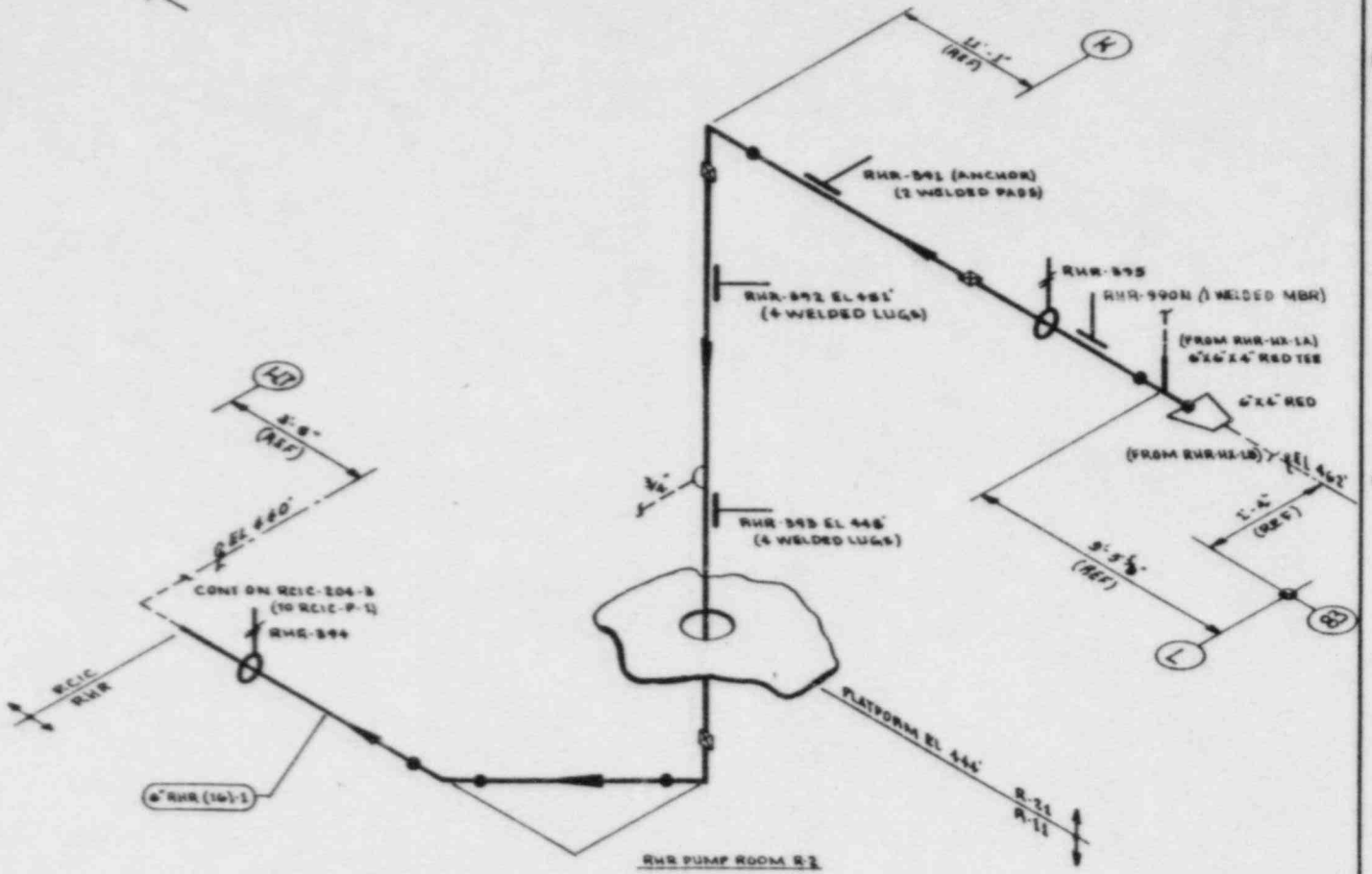
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-905N	STRUT	IWF	F-X	VT3H				F	
RHR-900N	STRUT	IWF	F-X	VT3H				F	
RHR-47	STRUT	IWF	F-X	VT3H				F	
RHR-46	BOX	IWF	F-X	VT3H				F	
RHR-966N	ANCHOR	IWF	F-X	VT3H				F	
RHR-41	BOX	IWF	F-X	VT3H				F	
RHR-139	SPRING	IWF	F-X	VT3H				F	
RHR-40	STRUT	IWF	F-X	VT3H				F	
RHR-39	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 2348
RHR-35	SPRING	IWF	F-X	VT3H				F	
RHR-37	BOX	IWF	F-X	VT3H				F	
RHR-140	SPRING	IWF	F-X	VT3H				F	
RHR-49	STRUT	IWF	F-X	VT3H				F	
RHR-51	STRUT	IWF	F-X	VT3H				F	
RHR-50	PSA-3 SN(2)	IWF	F-X F-Y	VT3H VT3H				UVX3 F	STRUT ATTACHED

WNP-02
INTERVAL: 01
DRAWING NO. RHR-211

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(3)-1
DESCRIPTION: RHR-P-2C SUCTION

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-42	PSA-3 SNUBBER	IWF	F-X	VT3H				UVX3	S/N 3911
RHR-43	SPRING	IWF	F-X	VT3H				F	
RHR-PE-211(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-211(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



ZONES R-21 & R-11

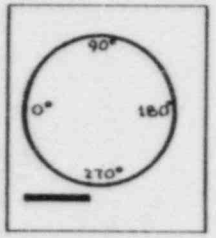
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

DOVER & CRAIL ISOMETRICS

RHR-667-16.19	REV	11
RHR-667-20.21	REV	5



KEY PLAN

QUALITY CLASS: 1		ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K.M.C.A.	DATE: 7-31-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RHR (16)-1	6	40	0.280	SA 106 GR B	CS	N.A.

NO	DATE	REVISION	BY	CHKD	APPVD
1	12-14-83	ADDED RHR 990N	[illegible]	[illegible]	TKW
0	12-27-78	ISSUED FOR USE	[illegible]	[illegible]	
A	10-9-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR CONDENSING MODE SUPPLY TO RCIC-P-1

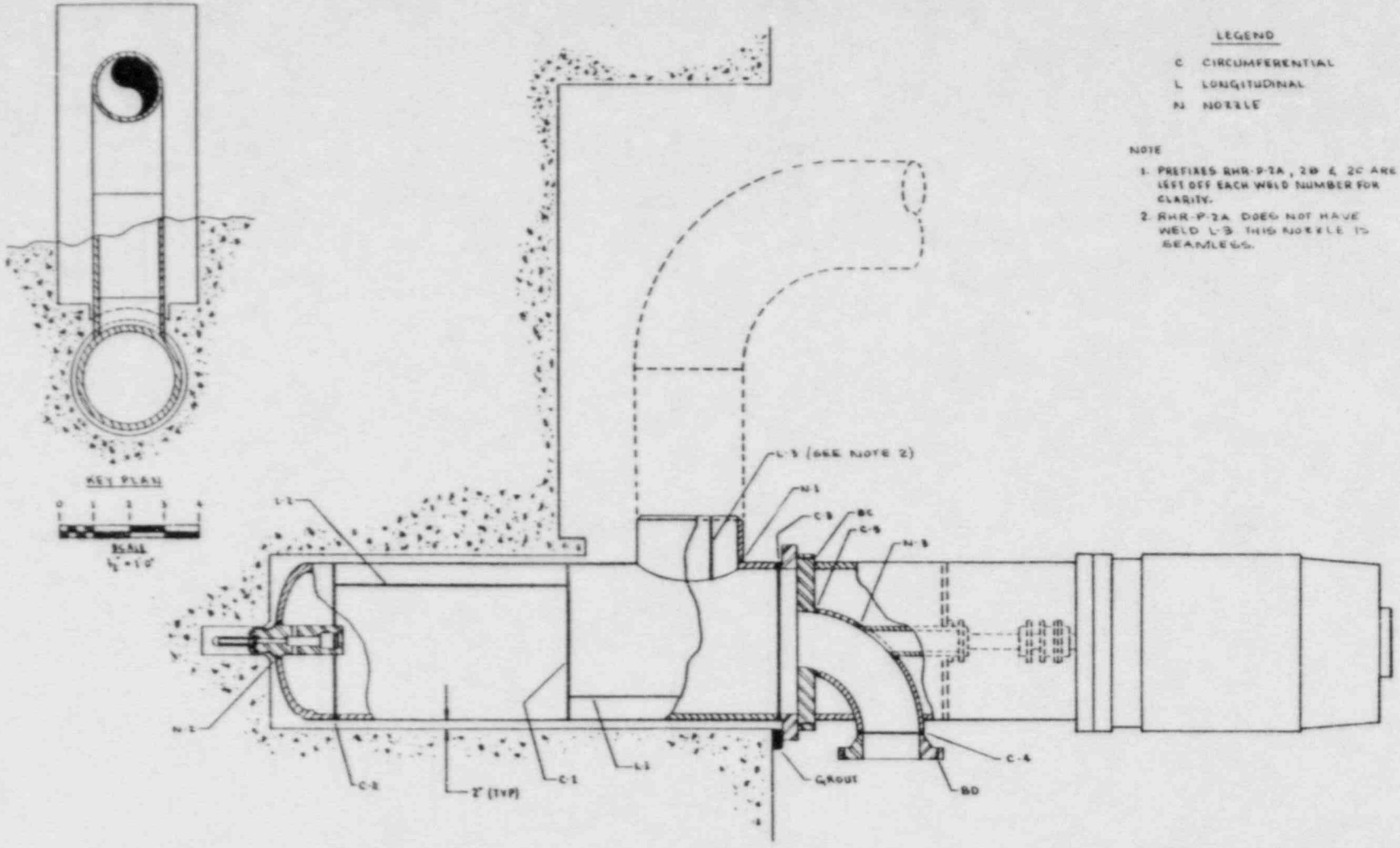
DWG NO: RHR-212 REV 1

WNP-02
INTERVAL: 01
DRAWING NO. RHR-212

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(16)-1
DESCRIPTION: COND MODE SUPPLY

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-390N	BOX	IWF	F-X	VT3H				F	
RHR-395	SPRING	IWF	F-X	VT3H				F	
RHR-391	ANCHOR	IWF	F-X	VT3H				F	
RHR-392	BOX	IWF	F-X	VT3H				F	
RHR-393	BOX	IWF	F-X	VT3H				F	
RHR-394	SPRING	IWF	F-X	VT3H				F	
RHR-PP-212(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PP-212(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



TYPICAL FOR RHR P-2A, 2B & 2C

LEGEND

C CIRCUMFERENTIAL
L LONGITUDINAL
N NOZZLE

NOTE

1. PREFIXES RHR-P-2A, 2B & 2C ARE LEFT OFF EACH WELD NUMBER FOR CLARITY.
2. RHR-P-2A DOES NOT HAVE WELD L-3. THIS NOZZLE IS SEAMLESS.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM
RHR-P-2A, 2B & 2C WELDS

ENGINEER T. HOYLE

DRAWN K. McANDREW

DATE 10-26-78

DWG NO RHR-213

REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	12-7-81	REVISED TO INCLUDE RHR-P-2C & NOTE 2	K.M.A	[illegible]	[illegible]
1	5-22-79	REDRAWN	K.M.A	[illegible]	[illegible]
0	1-3-79	ISSUED FOR USE	K.M.A	[illegible]	[illegible]

WNP-02
INTERVAL: 01
DRAWING NO. RHR-213

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR P-2A
DESCRIPTION: RHR PUMP 2A & 2B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-P-2AC-1	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AC-2	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AC-3	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AC-4	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AC-5	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AN-1	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AN-2	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AN-3	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AL-1	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AL-2	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2AL-3	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2A(CS)	RHR PUMP BASE	IWF	F-X	VT3H				F	
RHR-P-2BC-1	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BC-2	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BC-3	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.

WNP-02
INTERVAL: C1
DRAWING NO. RHR-213

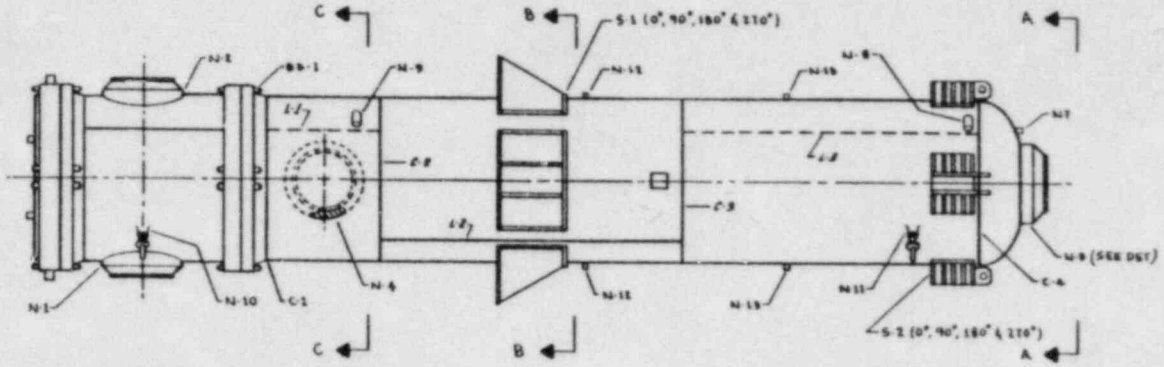
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-P-2B
DESCRIPTION: RHR PUMP 2A & 2B

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-P-2BC-4	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BC-5	PMP CAS/CIR WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BN-1	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BN-2	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BN-3	PMP NOZZLE WELD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BL-1	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BL-2	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2BL-3	PMPCAS/LONG.WLD	C-G	C6.10	SUR				H	SEE NOTE #2.
RHR-P-2B(CS)	RHR PUMP BASE	IWF	F-X	VT3H				F	
RHR-P-2C(CS)	RHR PUMP BASE	IWF	F-X	VT3H				F	
RHR-PB-213(L)	LK PRES BNDRY	C-H	C7.20	VT-2				B	
RHR-PB-213(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	

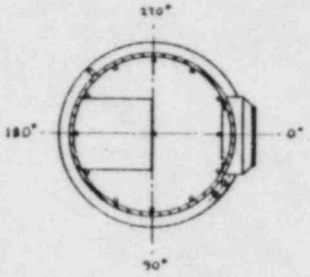
NOTES:

1. WELDS C-1, C-2, L-1, L-2 & L-3 ARE NOT GROSS STRUCTURAL DISCONTINUITIES & DO NOT REQUIRE EXAMINATION.
2. WELD S-2 DOES NOT REQUIRE SURFACE EXAM. IT IS NOT A COMPONENT SUPPORT DURING NORMAL OPERATION.

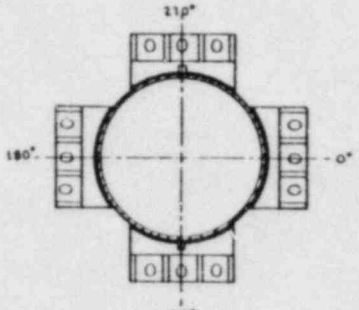


LEGEND

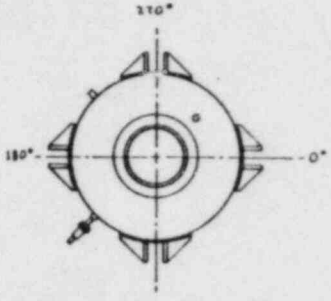
- C CIRCUMFERENTIAL
- L LONGITUDINAL
- G INTEGRALLY WELDED SUPPORT
- BD BOLTING



SECTION C-C

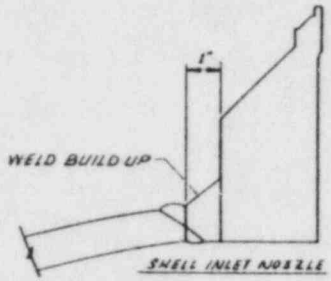


SECTION B-B

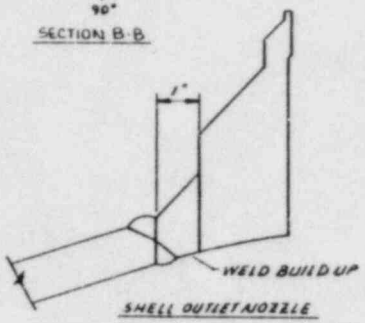


SECTION A-A

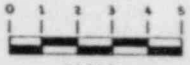
	NOM DIA	NOM WALL THK	MATERIAL SPECIFICATION	CAL BLOCK NO
SHELL	58"	1.0	SA 516 GR 70	UT-42
NOZZLE	20"	3.75	SA 105 GR II	UT-42



SHELL INLET NOZZLE



SHELL OUTLET NOZZLE



SCALE
2" = 5'-0"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

ENGINEER T. HOYLE

DRAWN K. Mc ANDREW

DATE 1-8-79

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM RHR HEAT EXCHANGER

DWG NO RHR-214 REV 1

NO	DATE	REVISION	B.	CHKD	APPVD
1	1-8-79	ADDED SHELL INLET & OUTLET NOZZLE DETAIL	KMA	TH	[illegible]
0	1/31/78	ISSUED FOR USE	KMA	TH	[illegible]

NO	DATE	REVISION	BY	CHKD	APPVD

WNP-C2
INTERVAL: 01
DRAWING NO. RHR-214

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-HX-1A
DESCRIPTION: RHR HEAT EXCHANGE 1A

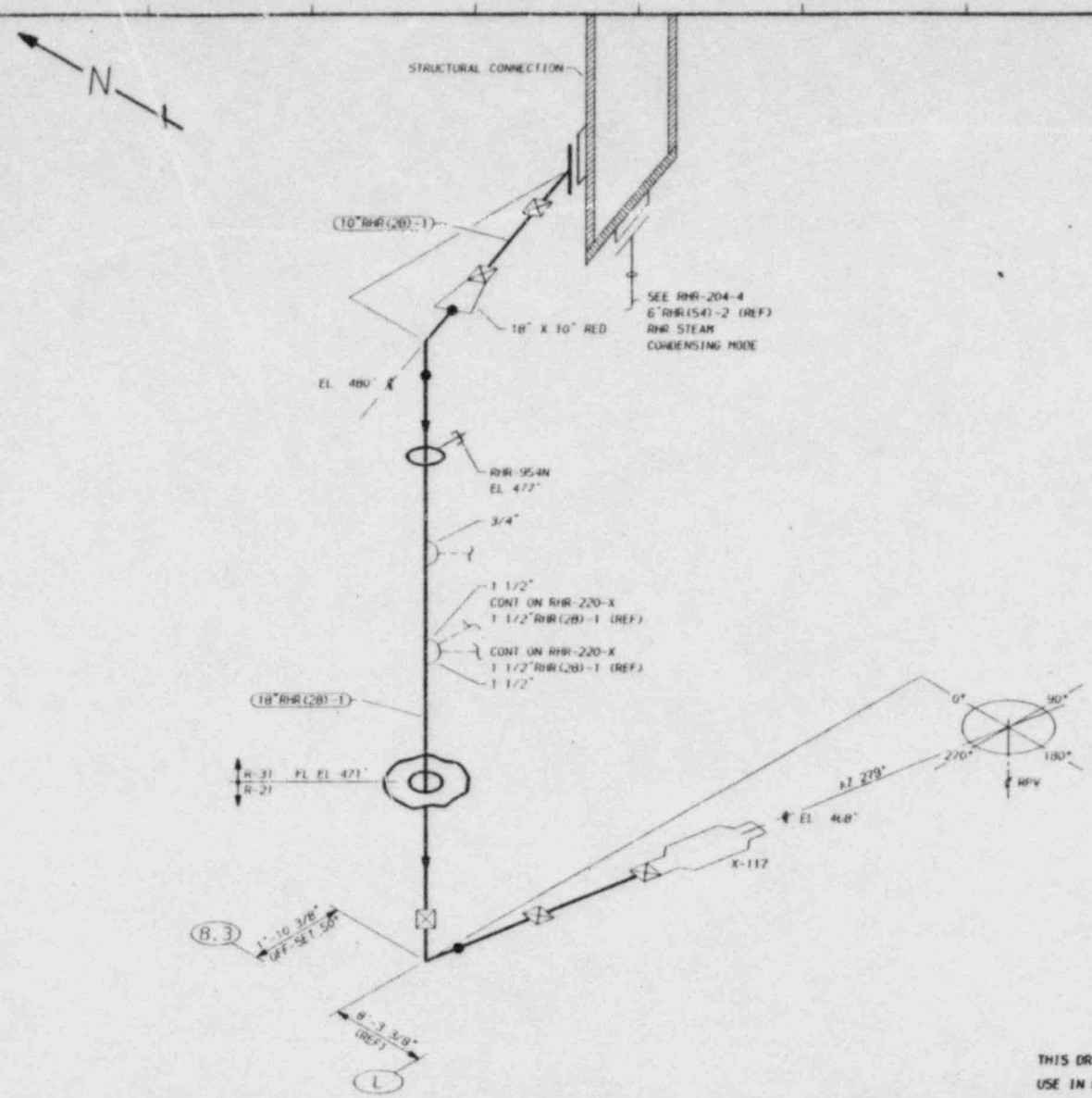
DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
AC-1									
	FLG/SHEL CIRWLD	C-A	C1.10	VOL	UT-42			F	
AC-4									
	SHEL/HD CIR WLD	C-A	C1.10	VOL	UT-42			F	
AN-3									
	INLET NZ/SHELWD	C-B	C2.20	VOL	UT-43			F	
			C2.20	SUR				F	
AN-4									
	OUT NZ/SHEL WLD	C-B	C2.20	VOL	UT-43			F	
			C2.20	SUR				F	
AS-1									
	HEATXCHG SUP WD	C-C	C3.10	SUR				F	4 WELDED SUPPORTS 0,90,180,270 DEG.
BC-1									
	FLG/SHEL CIR WD	C-A	C1.10	VOL	UT-42			F	
BC-4									
	SHEL/HD CIR WLD	C-A	C1.10	VOL	UT-42			F	
BN-3									
	INLT NZ/SHEL WD	C-B	C2.20	VOL	UT-43			F	
			C2.20	SUR				F	
BN-4									
	OUT NZ/SHEL WLD	C-B	C2.20	VOL	UT-43			F	
			C2.20	SUR				F	
BS-1									
	HEATXCHG SUP WD	C-C	C3.10	SUR				F	4 WELDED SUPPORTS, 0,90,180,270 DEG.
RHR-HX-1A(CS)									
	HX BASE	IWF	F-X	VT3H				F	
RHR-HX-1B(CS)									
	HX BASE	IWF	F-X	VT3H				F	
RHR-PP-214(L)									
	LK PRES BNDRY	C-H	C7.20	VT-2				B	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-214

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-HX-1A
DESCRIPTION: RHR HEAT EXCHANGE 1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-PP-214(H)	HYDRO PRES BNDR	C-H	C7.21	VT-2				P	



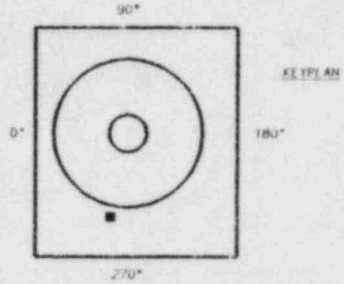
NOTES

1. ALL WELDS ON THIS DRAWING ARE EXEMPT FROM VOLUMETRIC AND/OR SURFACE EXAMINATION PER IWC-1221(f).

REFERENCES:

ISI - 221-1

BOVEE & CRAIL ISOMETRIC
RHR-867-40.44 REV 9



ZONES R-31 & R-21

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10"RHR(28)-1	10	STD	0.365	SA 106 GR B	CS	NA
18"RHR(28)-1	18	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
0	4-10-85	ISSUED FOR USE	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: K-McANDREW | DRAWN: K-McA | DATE: 2-23-85

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RELIEF LINE TO SUPPRRESSION POOL

DWG NO: RHR-216 | REV 0

WNP-02
INTERVAL: 01
DRAWING NO. RHR-216

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2P)-1
DESCRIPTION: RHR HEAT EXCHANGE 1A

DATE 04/25/85

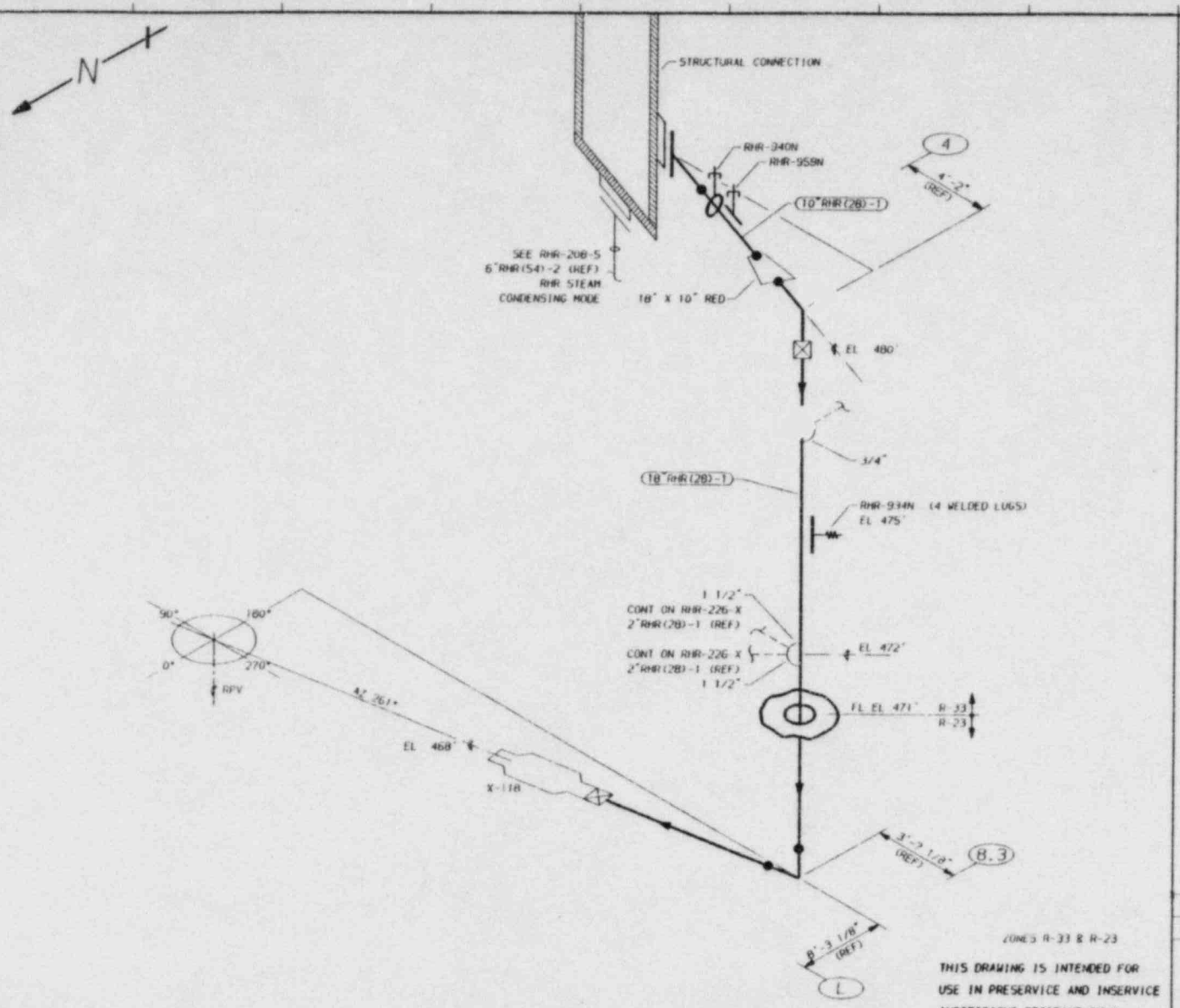
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-954N									
	PSA-1 SN(2)	IWF	F-X	VT3H				UVX3	S/N 125 S/N 126
RHR-987N									
	RIGID	N/A	N/A	N/A				F	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-224

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(28)-1
DESCRIPTION: RHR HEAT EXCHANGE 1A

DATE 04/25/85

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-940N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	S/N 3944 S/N 2570
RHR-959N	PSA-3 SN(2)	IWF	F-X	VT3H				UVX3	
RHR-934N	SPRING	IWF	F-X	VT3H				F	



ZONES R-33 & R-23

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTIONS PROGRAMS ONLY.

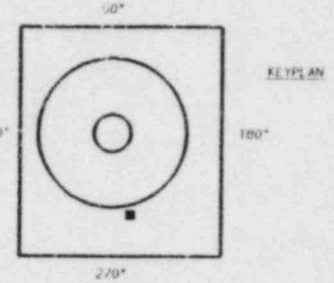
NOTES

1. ALL WELDS ON THIS DRAWING ARE EXEMPT FROM VOLUMETRIC AND/OR SURFACE EXAMINATION PER IWC-1221(f).

REFERENCES:

ISI - 221-2

. BOVEE & CRAIL ISOMETRIC RHR-058-34.35 REV B



KEYPLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10"RHR(2B)-1	10	STD	0.365	SA 106 GR B	CS	NA
18"RHR(2B)-1	18	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APVD
0	4.28.85	ISSUED FOR USE	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: K-McANDREW | DRAWN: K-McA | DATE: 2-23-85

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RELIEF LINE TO SUPPRESSION POOL

DWG NO: RHR-224 | REV 0