



NUCLEAR ENERGY SERVICES, INC.

DOCUMENT NO. 80A8980 REV. 1

PAGE 1 OF 23

BOP PRESERVICE INSPECTION PROGRAM PLAN
GENERAL REFERENCE TEXT

FOR

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application	5562	Prepared By	Asrar Ahmed	Date	12/8/83
APPROVALS					
TITLE/DEPT.	SIGNATURE			DATE	
Project Engineer	<i>Asrar Ahmed</i>			12/8/83	
Engineering Dept. Manager	<i>Bruce Blum</i>			12/8/83	
Program Standards Manager	<i>L. Sage</i>			12/9/83	
Project Manager	<i>Lawrence P. Blum</i>			12/9/83	
Quality Assur. Manager	<i>MEalling for WSG</i>			12-9-83	
8407030032 840621 PDR ADOCK 05000443 G PDR					

REVISION LOG

NUCLEAR ENERGY SERVICES, INC.

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1. INTRODUCTION

The Program Plan has been prepared to fulfill the Preservice Inspection (PSI) requirements for Balance of Plant (BOP) of the Seabrook Nuclear Power Station, Unit 1 owned by Public Service Company of New Hampshire. This Program Plan is also written to meet any Augmented Inspection requirements committed to by the Owner. These PSI requirements are specified by the Code of Federal Regulations, 10 CFR 50.55 a(g).

The scope of examinations, procedures, and acceptance criteria meet the requirements outlined in Section XI of the ASME Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Plant Components", 1977 Edition, up to and including the Summer 1978 Addenda. Accordingly, all safety related pressure retaining components and their supports as determined by 10 CFR 50 and NRC Regulatory Guide 1.26, have been scheduled to be examined in compliance with Section XI requirements.

The extent of examinations for Class 2 piping welds has been determined in accordance with the requirements of the 1974 Edition of Section XI with Addenda through Summer 1975 as allowed or required by 10CFR50.55a paragraph (b)(2). Thus, the exemption criteria utilized in this program plan are those allowed by the Summer 1975 Addenda to the Code for Class 2 systems.

This BOP PSI Program Plan Document presents information in a general text which relates to the overall performance of examinations. Examination requirements for individual piping systems are listed in the PSI Program Plan for each system, each of which is a separate document. These piping system documents itemize the system-specific examinations. The examinations shall comply with Section XI requirements for examination categories, methods, techniques, and procedures; for personnel qualifications; for documentation, flaw mapping, and evaluation of inspection results; and for disposition and repair.

The Program Plan discusses the regulatory requirements which form the bases for the development of the plan and the technical scope of examinations to satisfy these requirements. The Program Plan also presents procedures for performance and documentation of these examinations.

2. BASES FOR PRESERVICE INSPECTION PROGRAM

2.1 NRC REGULATIONS


Title 10 of the Code of Federal Regulations, Part 50, Subsection 10CFR 50.55(a) establishes the edition of Section XI of the 'ASME' BPV code applicable to Preservice Inspection of the Balance of Plant based upon the construction permit. This unit is required to comply with requirements set forth in ASME Code no earlier than Summer 1972 Addenda of 1971 edition. However, the examinations requirements of the program plan, in accordance with Public Service Company of New Hampshire Specification No. SBISI-1 Rev. 2 "Preservice/Inservice Inspection Services for Seabrook Nuclear Power Station" comply with ASME 1977 Edition with Addenda through Summer 1978. Code cases listed in Reg. Guide 1.147 may be used when applicable.

The quality group classification system for radioactive water/steam-containing components important to the safety of water-cooled nuclear power plants is established by NRC Regulatory Guide 1.26, in conjunction with 50.55a of 10 CFR 50. Fluid system components important to safety are classified in accordance with the ANSI N18.2a-1975, "American National Standard Revision and Addendum to Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants" classification. This classification system is compatible with the requirements of NRC Regulatory Guide 1.26, and is submitted as an alternate acceptable method of meeting the intent of Regulatory Guide 1.26.

2.2 DEFINITION OF OWNER INTENT

In accordance with the requirements set forth by 10 CFR 50.55a, the Seabrook Unit 1 PSI Program Plan must comply with the requirements of the ASME code no later than those of the Winter 1972 Addenda of the 1971 edition. However, in order to adopt a more recently accepted code with addenda, Public Service Company of New Hampshire has elected to comply with the 1977 Edition of the Code up to and including the Summer 1978 Addenda.

Accordingly, this Program Plan provides the details necessary for performing the Preservice Inspection of the Seabrook Unit 1 Class 1, 2, and 3 nuclear safety related piping system and components. The plan schedules all required nondestructive examinations of piping systems within the Class 1, 2, and 3 boundaries once, prior to initial plant startup, in accordance with ASME Section XI, Subsections IWA, IWB, IWC and IWD.

In addition an augmented Inservice Inspection Program (provided later) 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 include branch lines which fall within the augmented Inservice Inspection boundary up to the first pipe whip restraint beyond the branch line isolation valve.

2.3 SCHEDULE

All examinations required for Inservice Inspection shall be performed completely, once, as a preservice examination requirement prior to initial plant start-up.

3. PRESERVICE INSPECTION PROGRAM PLAN DESCRIPTION

3.1 DOCUMENT DESIGNATIONS

Listed in Table 3.1 are the documents that constitute the plan and schedule of examinations for the PSI Program Plan.

TABLE 3.1
Program Plan and System Documents

<u>Number</u>	<u>Document Title</u>
80A8980	BOP Preservice Inspection Program Plan General Reference Text
80A8981	PSI Program Plan: Main Steam System
80A8982	PSI Program Plan: Feedwater System
80A8983	PSI Program Plan: Reactor Coolant System
80A8984	PSI Program Plan: Residual Heat Removal
80A8985	PSI Program Plan: Safety Injection System
80A8986	PSI Program Plan: Chemical and Volume Control System
80A8987	PSI Program Plan: Containment Spray System
80A8988	PSI Program Plan: Primary Component Cooling System
80A8989	PSI Program Plan: Class 3 Components

Listed in Table 3.2 are the NES Controlled Documents supporting the development of this PSI Program Plan.

TABLE 3.2
General Reference Documents

<u>Number</u>	<u>Document Title</u>
80A9068	Procedure for Certifying Nondestructive Examination Personnel
80A9069	Procedure for the Certification of Visual Examination Personnel
80A5187	Seabrook NPS Unit 1 and 2 Quality Assurance Program Plan
80A9021	NES ISI Quality Assurance Manual

3.2 EXCEPTIONS

The basis for exceptions to the requirements of Section XI are presented in the individual PSI Program Plan sections for each system. Exceptions to Code required examinations may be authorized by the regulatory authority, as allowed by 10 CFR 50.55 a(a)(2), provided that design fabrication, installation, testing and inspection performed in compliance with Codes and Section XI requirements would result in hardship without a compensating increase in the level of quality and safety, or provided that the proposed alternative examination will provide an acceptable level of quality and safety.

3.3 EXEMPTIONS

The following exemptions from examination requirements are applicable to Class 1, 2 and 3 piping systems:

3.3.1 Class 1

All component connections, piping, and associated valves of 1" nominal size or smaller are exempt from surface and volumetric examination requirements, as allowed by ASME Section XI, Subparagraph IWB-1220(b).

3.3.2 Class 2

All component connections, piping, and associated valves and vessels of 4" nominal pipe size and smaller are exempt from surface and volumetric examination requirements, as allowed by subparagraph IWC-1220(d), S '75 Addenda. In addition to the above exemption, all components in systems other than the Residual Heat Removal and Emergency Core Cooling systems where both the design pressure and temperature are equal to or less than 275 PSIG and 200°F respectively are exempt from surface and volumetric examination requirements, as allowed by Subparagraph IWC-1220(a), S '75 Addenda.

3.3.3 Class 1, Class 2, and Class 3

For the purpose of system pressure test, open-ended portions of suction or drain lines from a storage tank extending to the first shutoff valve are considered as an extension of the storage tank.

Open-ended portions of nonclosed systems shall have tested or observed unimpaired flow during system operation in lieu of a system pressure test.

3.3.4 Exemption Requirements

All Class 1 pressure-retaining components exempted from surface and volumetric examination requirements by IWB-1220 shall be visually examined during system pressure tests per Category B-P requirements of Table IWB-2500, IWA-5000 and IWB-5000.

All Class 2 pressure-retaining components exempted from surface and volumetric examination requirements by IWC-1220 shall be visually examined during system pressure tests, in accordance with IWA-5000 and IWC-5000.

3.4 EXAMINATION SELECTION CRITERIA

The extent of examinations have been determined by the requirements of the 1977 Edition of Section XI with Addenda through Summer 1978, except that for ASME Code Class 2 piping welds, the extent of examination has been determined by IWC-1220, Table IWC-2520, Category C-F and C-G and paragraph IWC-2411 of the 1974 Edition with Addenda through the Summer 1975 of ASME Section XI. Listed in Table 3.3 are the ASME Code Class 2 systems and their Code Category designations for piping welds as determined by Summer 1975 Code.

Table 3.3
Extent of Examination for
Class 2 Pipe Welds

<u>System</u>	<u>Code Category</u>
Reactor Coolant	C-F
Residual Heat Removal	C-F
Main Steam	C-G*
Feedwater	C-G*
Safety Injection	C-F
Chemical & Volume Control	C-F
Containment Spray	C-G*
Primary Component Cooling	C-G*

* Program Plan and Schedule lists these categories as C-F in accordance with Section XI, Edition 1977 with Addenda through Summer 1978.

3.5 QUALITY ASSURANCE

The NES Quality Assurance Program Plan (QAPP), Document 80A5187, governs the design review and implementation of the Seabrook Unit 1 PSI Program Plan. This document is in accordance with the requirements of the NES ISI Quality Assurance Manual (80A9021), which is in compliance with Appendix B of 10 CFR 50. The QAPP includes the detailed quality assurance requirements that are common to all activities of the program including organization, management, liaison, examination implementations, control of inspection records, qualifications of personnel, materials and procedures, etc.

3.6 EXAMINATION PROCEDURES

Subarticle IWA-1400 of Section XI requires the development and preparation of written examination procedures necessary for the conduct of the nondestructive examinations associated with PSI operations. The written procedures for the performance by NES personnel of visual, surface, and volumetric examinations are referenced in Table 3.4.

Methods, techniques, and procedures for the preservice inspections are titled visual, surface, and volumetric. Each term describes a general method permitting a selection of different techniques and procedures restricted to that method to accommodate varying degrees of accessibility and radiation levels.

A visual examination is employed to provide a report of the general condition of the part, component, or surface to be examined, including such conditions as scratches, wear, cracks, corrosion or erosion on the surfaces; misalignment or movement of the part or component; or evidence of leaking. Visual examinations are applicable to welds, support members, valves, pumps, fasteners, etc. NES' visual examination procedure is based on the requirements of Subarticle IWA-2210 of Section XI of the ASME Code.

A liquid penetrant examination is specified as the surface examination method to delineate or verify the presence of cracks or discontinuities open to the

examination surface. NES' liquid penetrant examination procedure is in compliance with the requirements of Article 6 of Section V of the ASME Code, as required by Section XI Subarticle IWA-2222. As a substitute to liquid penetrant, NES may utilize a magnetic particle examination to satisfy surface examination requirements.

The ultrasonic pulse echo examination is selected as the volumetric examination method to indicate the presence of subsurface discontinuities by examining the Code Required volume of metal contained beneath the surface to be examined. NES' ultrasonic examination is in compliance with Appendix III of Section XI (or Articles 4 and 5 of Section V, as applicable) of the ASME Code, as required by Section XI Subarticle IWA-2232. Radiography may be used as a alternate to ultrasonic examination.

3.7 ULTRASONIC TESTING CALIBRATION STANDARDS


Table 3.5 lists UT Calibration Standards required to perform the UT examinations. All calibration standards are retained on site. Additional calibration standards may be required.

The UT examination calibration standard design and material selection is in accordance with Subarticle III-3400 of Appendix III to Section XI. In addition to the required notches, circumferential side drilled holes have been installed as additional reflectors. These additional reflectors are allowed by Paragraph III-3400 of Appendix III of Section XI. NES document No. 80A6302 defines the materials, design, dimensions and identification markings required to fabricate the piping calibration blocks for Seabrook Nuclear Power Station.

TABLE 3.4
REFERENCE NDE PROCEDURES

<u>NUMBER</u>	<u>PROCEDURE TITLE</u>
80A6461	Manual Ultrasonic Examination Procedure General Requirements
80A6462	Ultrasonic Examination Procedure for Austenitic Piping
80A6463	Ultrasonic Examination Procedure for Ferritic Piping
80A6465	Ultrasonic Examination Procedure for Steam Generator Welds
80A6466	Ultrasonic Examination Procedure for Pressurizer Welds
80A6467	Ultrasonic Examination Procedure for Pressurizer and Steam Generator Nozzle Inner Radius Areas
80A6469	Ultrasonic Examination Procedure for Reactor Coolant Pump Flywheels
80A6470	Ultrasonic Examination Procedure for Fitting Welds
80A6472	Procedure for Liquid Penetrant Examinations
80A6473	Procedure for Magnetic Particle Examinations
80A6474	Procedure for Visual Examinations.

TABLE - 3.5
PROGRAM PLAN CALIBRATION STANDARDS

<u>Title</u>	<u>Schedule</u>	<u>Material</u>	<u>Drawing #</u>
SB-04-160-SS	SCH 160	SA 376 TP 316	80C6303
SB-06-160-SS	SCH 160	SA 376 TP 316	80C6303
SB-08-160-SS	SCH 160	SA 376 TP 316	80C6303
SB-10-080-CS	SCH 80	SA 106 GR B	80C6303
SB-10-140-SS	SCH 140	SA 376 TP 316	80C6303
SB-12-140-SS	SCH 140	SA 376 TP 316	80C6304
SB-16-100-CS	SCH 100	SA 106 GR B	80D6304
SB-18-100-CS	SCH 100	SA 106 GR B	80D6304
SB-14-160-SS	SCH 160	SA 376 GR 304	(LATER) 
SB-RC-4	2.5" Min Wall	SA 376 GR 304N	(LATER)
SB-RC-3 (31" ID)	2.720" Min Wall	SA 376 GR 304N	(LATER)
SB-30-XX1-CS	1.156" Min Wall	SA 155 KCF 70	80D6304
SB-30-XX2-CS	1.355" Min Wall	SA 106 GR C	80D6304
SB-32-XX1-CS	1.500" Min Wall	SA 155 KCF 70	80D6304
SB-32-XX2-CS	1.250" Min Wall	SA 155 KCF 70	80D6304
SB-10-XX1-CS-F	SCH 80	SA 234 WPB	80C6303

3.8 EVALUATION CRITERIA

Evaluation of any indications detected during PSI shall be made in accordance with IWA-3000 of Section XI. Indications detected may be evaluated by other nondestructive methods, where practical, to assist in the determination (size, shape, location, orientation) before final disposition is made.

3.9 RECORDS AND REPORTS

A system of records of the preservice inspection, plans, schedules and calibration standards; the examination results and reports, the corrective action required and taken, will be developed and maintained at the site in accordance with Article IWA-6000 of Section XI.

3.10 PERSONNEL QUALIFICATION REQUIREMENTS

Personnel performing nondestructive examination operations shall be qualified with procedures prepared in accordance with SNT-TC-1A, 1975 Edition, for the applicable examination technique and methods as required by Article IWA-2300 of Section XI. All examinations shall be performed and the results evaluated by qualified nondestructive examiners level II and level III.

For those nondestructive examination methods not covered by SNT-TC-1A documents, NES shall qualify NES personnel on the particular method involved. The NES procedures for such qualification provide uniform programs of training, evaluation, and certification of personnel are included in Table 3.2.

3.11 PRE-EXAMINATION REQUIREMENTS

General provisions for accessibility have been defined by Article IWA-1500 of Section XI of the ASME Code.

1. All systems and components that are to be examined in accordance with the requirements of ASME Section XI will be designed with adequate physical access to allow the required inspection.
2. Piping systems requiring inservice inspection will be designed so that all welds requiring inspection are physically accessible for inspection with associated equipment.
 - A. Access will be provided by leaving adequate space around pipes at these welds and by means of removable insulation and shielding as required. Definition of required area of examination surface is specified in the architect Engineer's Design Guidelines (UE&C 9763-IS-1).
 - B. Pipes welded to fittings will be designed to permit meaningful examination by avoidance of irregular surface geometries.
 - C. The surface of welds will be smoothed and contoured to permit effective use of ultrasonic transducers or surface examination techniques.
 - D. Piping systems requiring surface or visual examination will be designed to allow access and visibility adequate for performance of such examination.

In addition to the requirements of the Code, adequate water, electricity and air outlets are to be provided at convenient locations for operation of the examination equipment. Sufficient lighting is also to be provided to permit free movement to, and illumination of, all the required examination areas. Access routes will be planned to permit the free passage of examination personnel and equipment. Temporary ladders, platforms, or scaffolding are to be provided as required.

3.12 PIPING SYSTEM DOCUMENTS



Each piping system document contains the following groups of information that are to be used for the preservice inspection of the Seabrook NPS Unit 1.

1. Exemptions and Exceptions

These are lists of the basis for exemptions and exceptions to the requirements of Section XI, as claimed in the Preservice Inspection Plan for those areas that are exempted by the code or cannot be examined either fully or in part because of limitations in accessibility, material, or design.

2. System Classification

The Seabrook Unit 1 system ASME Class 1, 2 and 3 boundaries have been established by United Engineers and Constructors, Inc. These lists identify the plant systems and components that are Class 1, 2, and 3; based on the referenced United Engineers and Constructors, Inc. drawings and lists systems, or portions of systems, that are exempted from the examination requirements of Section XI per IWB-1220 and IWC-1220.

3. Program Plan and Schedule

The specific examination requirements for the Seabrook Unit 1 System Preservice Inspection Plan are defined in the Program Plan and Schedule. Each weld or other examination area is designated by a unique identification number along with the applicable procedure number, examination category and method, and calibration standard number, if required for ultrasonic examinations.

Each weld or exam area has been given a unique designation number in the Program Plan and Schedule. Table 3.6 provides a key to the designator notation. Exam items are divided by system and further subdivided according to the weld or hanger figure that they appear on. Multiple examination requirements of the same component are listed in the Schedule appearing together. Hanger and component examinations follow the piping weld examinations within each system.

4. System Isometrics and Sketches

The piping isometric drawings show the piping for plant systems, delineating the identification of components subject to examination.

TABLE 3.6
DESIGNATIONS

A. Piping systems have been designated as follows:

<u>SYSTEM</u>	<u>DESIGNATION</u>
Main Steam	MS
Feed Water	FW
Reactor Coolant	RC
Residual Heat Removal	RH
Safety Injections	SI
Chemical & Volume Control	CS
Containment Spray	CBS
Primary Component Cooling	CC
Condensate	CO
Diesel Generator Air	DG
Spent Fuel Pool Cooling	SF
Service Water	SW

B. U E & C Line Designation has been incorporated in Program Plan Pipe Weld Identification according to the following format:

n-AAA-XXXX-YYY-ZZ

Where n is "Unit Number"

 AAA is "System Prefix" Per Piping System abbreviation.

 XXXX is Unique Number for each line, and may be two, three or four digits.

 YY is Subtended Number for a given line, and may be one or two digits.

 ZZ is Weld ISI Identification Number.

NOTE: A "B" indicates a branch connection

TABLE 3.6
(CONTINUED)

Hanger Identification will have the following similar format:

n-AAA-XXXX-BC-ZZ

Where B is Hanger "Function" according to:

S	=	Support
R	=	Seismic Restraint or Guide
PW	=	Pipe Whip Restraint
T	=	Transient Thrust Restraint (Bumper)
A	=	Anchor

And where C is Hanger "Type" according to:

V	=	Variable
C	=	Constant
M	=	Snubber
U	=	U-Bolt
H	=	Rigid Rod or Strut
G	=	Guide

And ZZ is Hanger Number.

Equipment Weld Identification will incorporate component Equipment Number and Weld Number.

- C. A suffix may designate particular exam areas or additional (repair) field welds.

TABLE 3.6
(CONTINUED)

Suffix Key:

- A - New or additional weld (successive letters as required for weld identification)
- B - Bolting (Studs, Nuts, Washers, etc. as applicable to component identification only)
- LD - Longitudinal Seam (Downstream)
- LU - Longitudinal Seam (Upstream)
- N - Nuts
- R - Repair Weld
- S - Studs, Bolts
- IR - Inner Radius
- NZ - Nozzle
- IS - Internal Surface

NOTE: HYD denotes Hydrostatic Visual Examination
N/A denotes NOT APPLICABLE
N/S denotes NOT SPECIFIED

D. SEABROOK EXAMINATION CODE

- MT - Magnetic Particle Examination
- PT - Liquid Penetrant Examination
- RT - Radiographic Examination
- UT - Ultrasonic Examination
- VT-1 - VT-1 Visual Examination
- VT-2 - VT-2 Visual Examination
- VT-3 - VT-3 Visual Examination
- VT-4 - VT-4 Visual Examination

TABLE 3.6
(CONTINUED)

- E. The piping system Weld and Hanger figure numbers have been designated as follows:

<u>SYSTEM</u>	<u>NES FIGURE NO.</u>
Main Steam	A
Feedwater	B
Reactor Coolant	C
Residual Heat Removal	D
Safety Injection	E
Chemical and Vol. Control	F
Primary Component Cooling	G
Containment Spray	H

3.13 VALVE GROUPING (B-M-2)



To satisfy the requirements of Category B-M-2 (valve bodies greater than 4" nominal size), internal pressure boundary surfaces shall be visually examined for one valve within each of the six groups of valves in Table 3.7, per the preservice examination requirements of IWB-3100. Valves are grouped according to same body constructional design, manufacturing method, manufacturer, and performance of similar functions in the system.

TABLE 3.7
VALVE - GROUPING

Group #	Manufacturer	System	Valve #	Description
1	Westinghouse	Reactor Coolant	RC-V22, V23, V87 V88	12" Gate Valve
2	Crosby	Reactor Coolant	RC-V115 V116, V117	6" Relief Valve
3	Westinghouse	Residual Heat Removal	RH-V29, V30 V31, V15, V52 V53	6" Check Valve
			RH-V52, V51	8" Check Valve
4	Westinghouse	RHR	RH-V65, V63 V61, V59	6" Gate Valve
5	Westinghouse	Safety Injection	SI-V3, V17 V32, V47	10" Gate Valve
6	Westinghouse	SI	SI-V5, V6, V20, V21, V35 V36, V50, V51	10" Check Valve
			SI-Y82, V87	6" Check Valve



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PSI PROGRAM PLAN:

REACTOR COOLANT SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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APPROVALS					
TITLE/DEPT.	SIGNATURE			DATE	
Project Engineer	<i>Asrar Ahmed</i>			12/9/83	
Engineering Dept. Manager	<i>Bruce Howard</i>			12/9/83	
Project Manager	<i>Lawrence P. Brundage</i>			12/9/83	
Program Standards Manager	<i>L. Sage</i>			12/7/83	
Quality Assurance Manager	<i>MEAllen for WSG</i>			12-9-83	



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REACTOR COOLANT SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 1 & Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Reactor Coolant System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Reactor Coolant System are itemized in Table 2.2.

TABLE 2.1
SYSTEM EXEMPTIONS

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>	<u>Basis For Exemption</u>
1	Component connections, piping, & associated valves of 1 in nominal size and smaller	F-805002/5 F-805003/6 F-805004/5 F-805005/5 F-805006/6	Piping 1" nominal size and smaller exempted as per ASME Code Section XI IWB-1220(b) S'78 Addenda
2	All vents, drains test, sample, fill, by-pass, and instrument connections 4" nominal pipe size and smaller	F-805008/6	All component connections, piping & associated valves, and vessel (and their supports) that are 4" nominal pipe size & smaller are exempted as per ASME Code Section XI, IWC-1220(d) S'75 Addenda

TABLE 2.2

EXCEPTIONS - I

System	:	Reactor Coolant (Primary Piping)
Category	:	B-J
Quality Group	:	A
Component Description:	:	Pressure retaining welds in RC System piping.
Code Requirements:	:	<p>(i) Volumetric examination of bottom 1/3 'T' of the pressure retaining welds, as shown in fig. IWB-2500-8 of ASME Section XI, 1977 Edition, Summer '78 Addenda.</p> <p>(ii) Surface examination of welds plus 1/2" on both sides of each weld.</p>
Areas for Relief	:	Examination of pressure retaining welds on cast stainless fittings.
Basis for Relief:	:	Specific regions of the weld required volumes may not be examined due to metallurgical constraints. (Large grain structure producing a high degree of scatter and attenuation of ultrasound).

1. Pipe to elbow and pipe to pump welds. Ultrasonic examination will be performed using a 1/2 VEE technique from the pipe side only. (UT will be performed on as much of the welds and required volumes as practical as defined by 10 CFR 50.55(a). Details of the unexamined areas will be provided in the final examination report.)

TABLE 2.2 (cont')

EXCEPTIONS - 1

2. Pump to elbow: (cast fitting to fitting examinations). These examinations currently will not be able to be performed due to metallurgical constraints. (Large grain structure producing high degrees of scatter and attenuation of ultrasound).

ALTERNATE TESTING:

- (a) For Pipe to elbow and Pipe to pump welds, ASME Section III radiography be used in conjunction with a one sided 1/2 VEE ultrasonic examination (as reference above) in formation of the baseline inspection. Ultrasonic examination during ISI may be augmented by radiography.
- (b) For Elbow to pump welds, ASME Section III radiography be used for baseline inspection and radiography be performed during ISI.

Development of appropriate UT techniques to perform these examinations may be pursued.

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Reactor Coolant System.

2.4 CALIBRATION STANDARDS

Table 3 lists the Calibration Standards for Ultrasonic examinations scheduled for the Reactor Coolant System. All Calibration Standards are to be retained on site. The General Reference text discusses the basis for requirement of these Calibration Standards.

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Reactor Coolant System that are Class 1 and Class 2.

TABLE 2.3
SYSTEM CLASSIFICATIONS

ASME Code Class	Description	Ref. P & ID
1	Four main loops from RPV to Steam Generators to pumps and back to RPV:	F-805554/5
1	14" Surge line from loop #3 to pressurizer	F-805005/5
1	Hot and cold manifolds from main RC lines	F-805003/6
1	6" lines from pressurizer	F-805007/5
2	12" to 16" to 14" suction line from valves RC-V24 & RC-V88 to RHR pump P-8A & P-8B.	F-805008/6

Table 2.4
Reference Calibration Standards

TITLE	SCHEDULE	MATERIALS
SB-04-160-SS	SCH 160	SA 376 TP 316
SB-06-160-SS	SCH 160	SA 376 TP 316
SB-12-140-SS	SCH 140	SA 376 TP 316
SB-14-160-SS	SCH 160	SA 376 TP 304
SB-RC-4	2.5" Wall Thick	SA 376 Gr 304N
SB-RC-3	2.720" Wall Thick	SA 376 Gr 304N

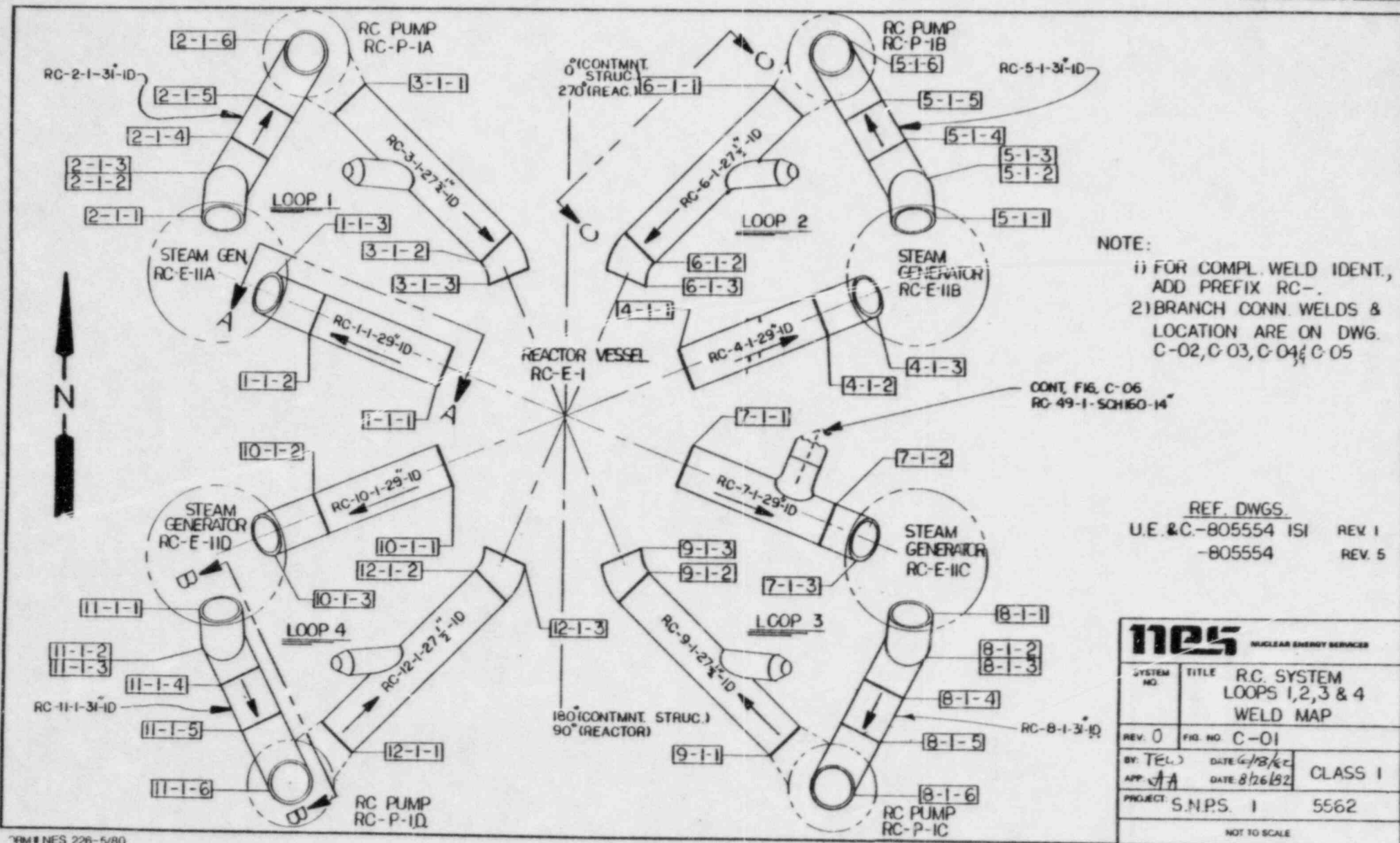
TABLE 2.5
RC System: Isometric Figures

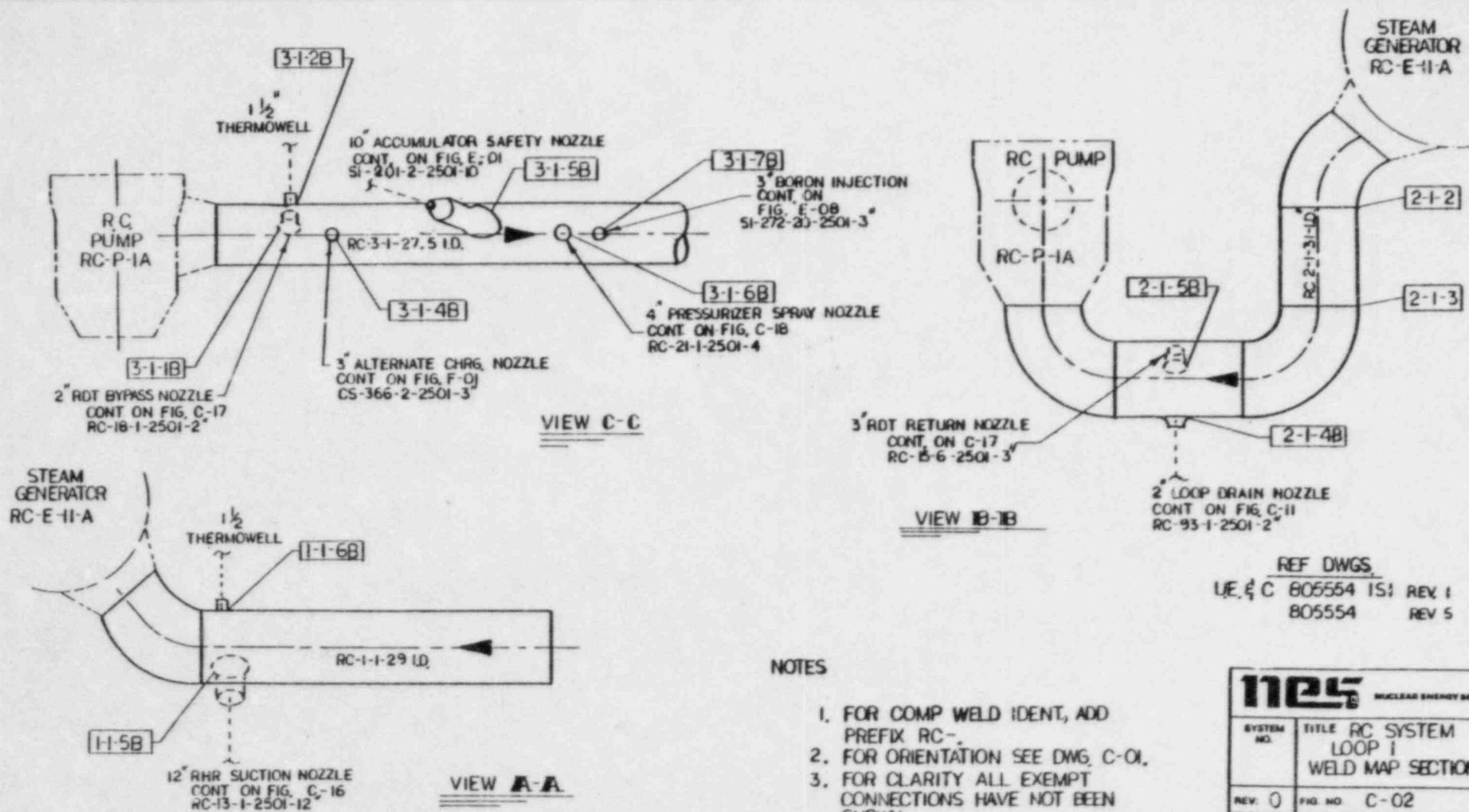
1-C-01	Rev. 0
1-C-02	Rev. 0
1-C-03	Rev. 0
1-C-04	Rev. 0
1-C-05	Rev. 0
1-C-06	Rev. 0
1-C-07	Rev. 0
1-C-08	Rev. 0
1-C-09	Rev. 0
1-C-10	Rev. 0
1-C-11	Rev. 0
1-C-12	Rev. 0
1-C-13	Rev. 0
1-C-14	Rev. 0
1-C-15	Rev. 0
1-C-16	Rev. 0
1-C-17	Rev. 0
1-C-18	Rev. 0
1-C-19	Rev. 0
1-C-20	Rev. 0
1-C-21	Rev. 0
1-C-22	Rev. 0
1-C-23	Rev. 0
1-C-24	Rev. 0
1-C-25	Rev. 0

3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examinations.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.





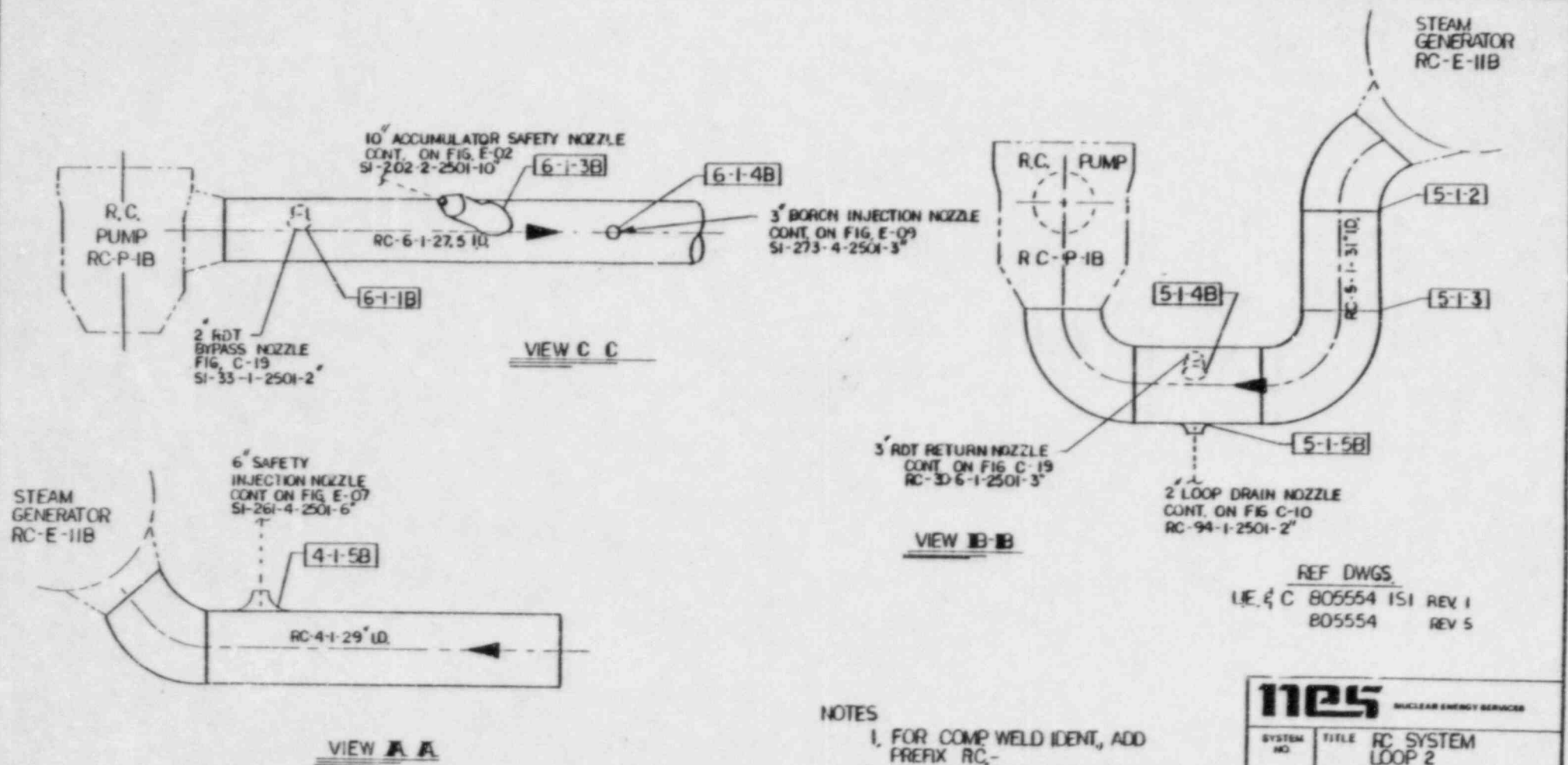
NOTES

1. FOR COMP WELD IDENT, ADD PREFIX RC-
2. FOR ORIENTATION SEE DWG. C-01.
3. FOR CLARITY ALL EXEMPT CONNECTIONS HAVE NOT BEEN SHOWN.

REF DWGS.

U.E. & C 805554 1S1 REV 1
805554 REV 5

NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RC SYSTEM LOOP 1 WELD MAP SECTIONAL
REV. 0	FIG. NO. C-02
BY: JRP APP: AA	DATE: 2/14/83 DATE: 2/15/83
PROJECT: SNPS 1	5562
NOT TO SCALE	

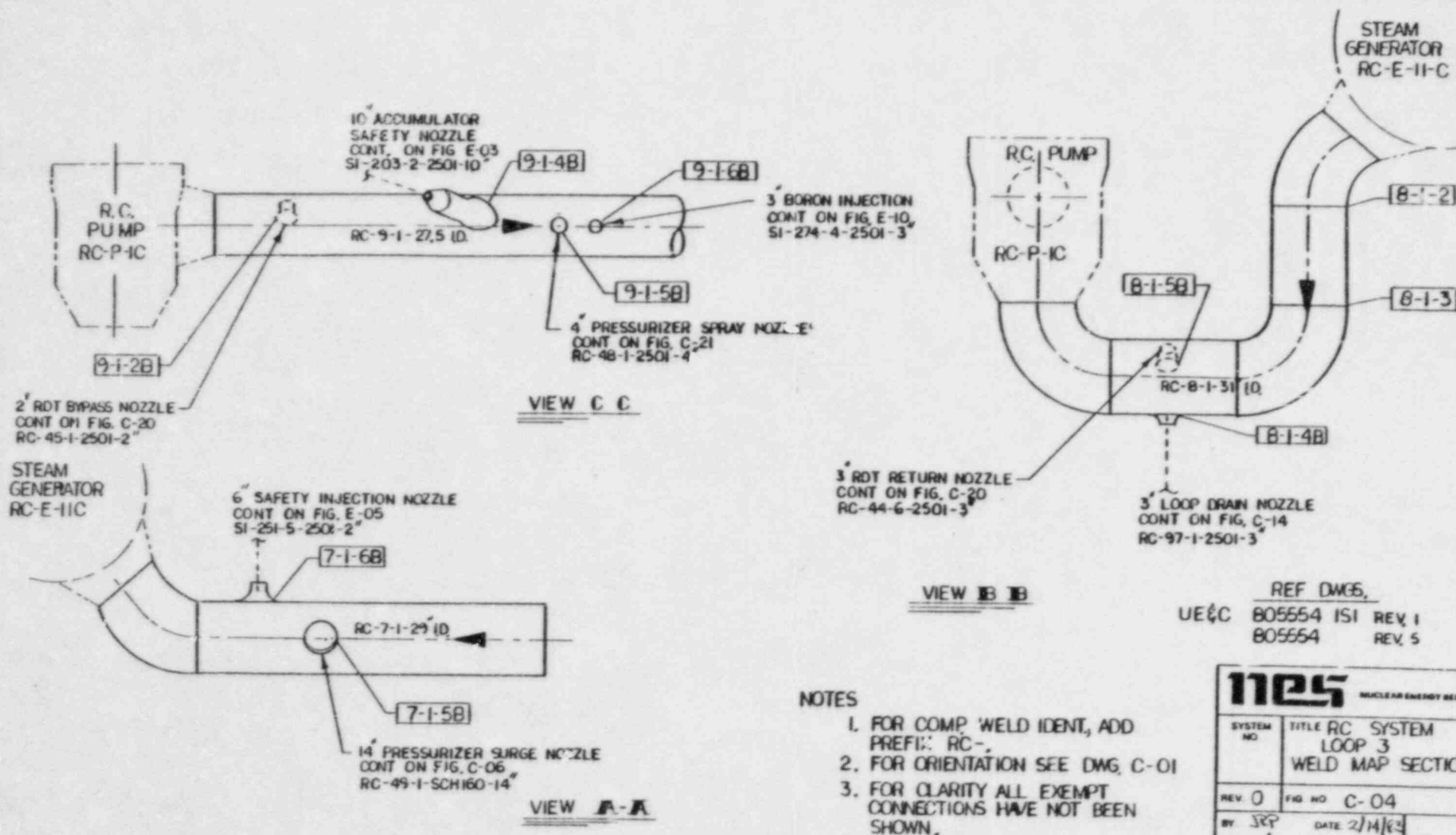


REF DWGS.
LIE, C 805554 151 REV 1
805554 REV 5

NOTES

1. FOR COMP WELD IDENT, ADD PREFIX RC-
2. FOR ORIENTATION SEE DWG C-01.
3. FOR CLARITY ALL EXEMPT CONNECTIONS HAVE BEEN NOT BEEN SHOWN.

1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RC SYSTEM LOOP 2 WELD MAP SECTIONAL
REV 0	FIG NO C-03
BY JRP	DATE 2/14/83
APP J*	DATE 2/15/83
PROJECT	SNPS I 5562
CLASS 1	
NOT TO SCALE	

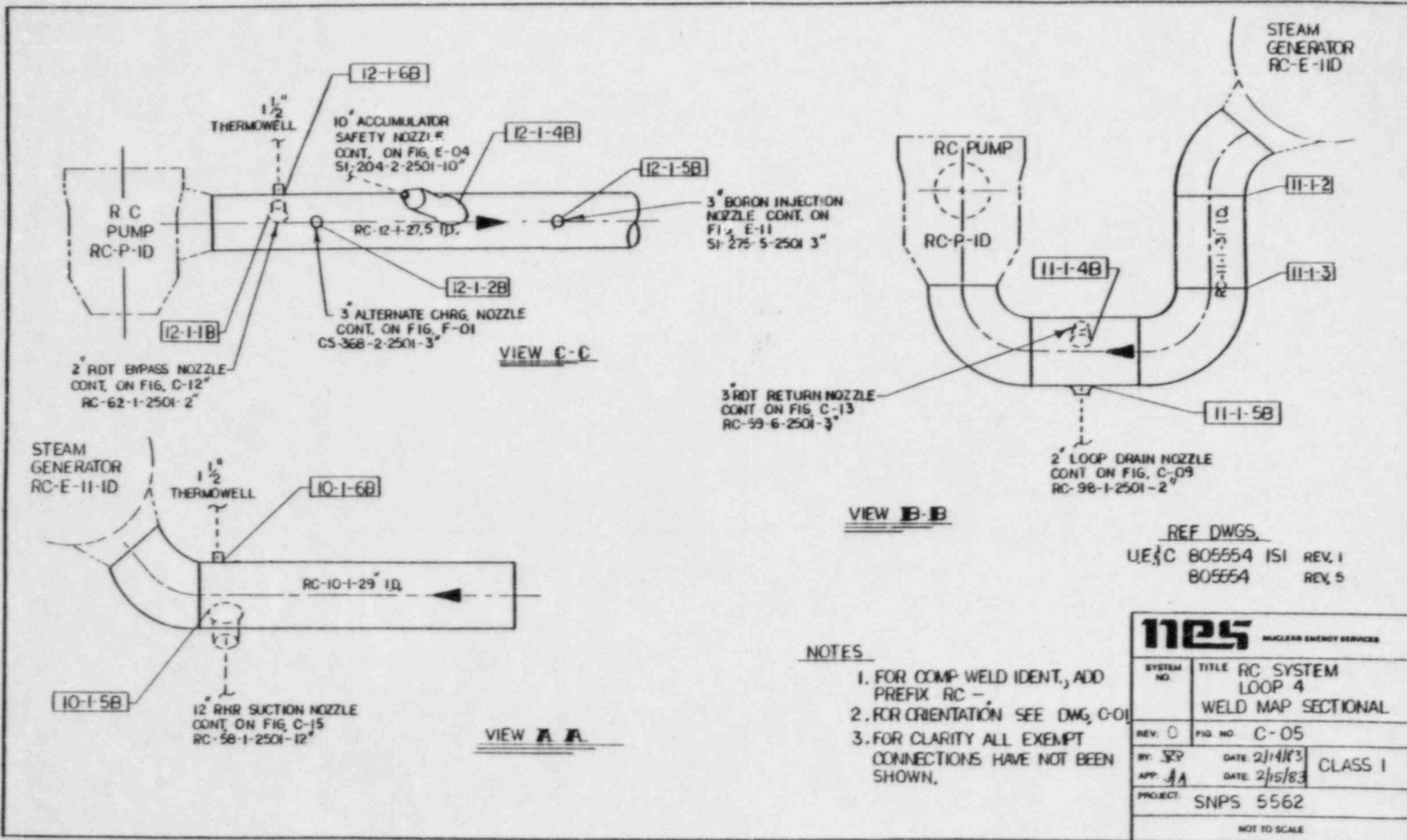


NOTES

1. FOR COMP. WELD IDENT, ADD PREFIX: RC-
2. FOR ORIENTATION SEE DWG. C-01
3. FOR CLARITY ALL EXEMPT CONNECTIONS HAVE NOT BEEN SHOWN.

REF DWGS,
UE&C 805554 ISI REV 1
805554 REV 5

1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RC SYSTEM LOOP 3 WELD MAP SECTIONAL
REV. 0	FIG. NO. C-04
BY JRP	DATE 2/14/83
APP. J/A	DATE 2/15/83 CLASS 1
PROJECT	SNPS 1 5562
NOT TO SCALE	

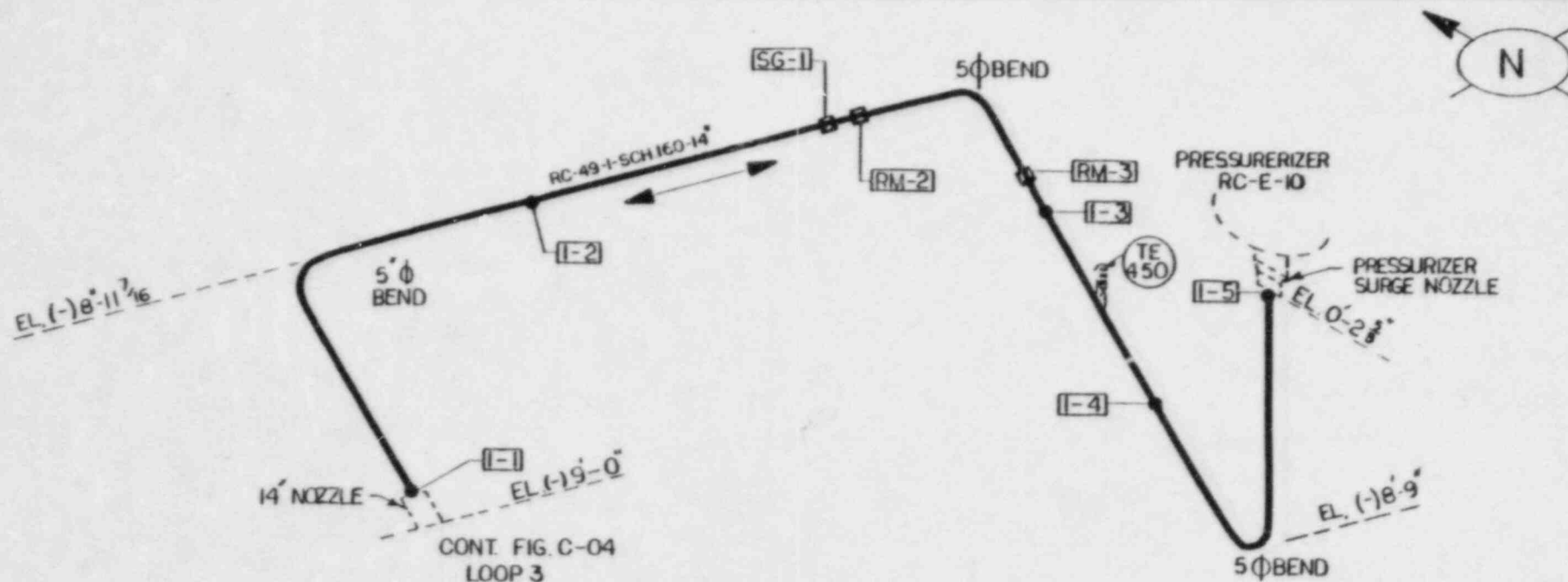


REF DWGS.
 U.E.C 805554 ISI REV. 1
 805554 REV. 5

NOTES

1. FOR COMP WELD IDENT, ADD PREFIX RC -
2. FOR ORIENTATION SEE DWG. C-01
3. FOR CLARITY ALL EXEMPT CONNECTIONS HAVE NOT BEEN SHOWN.

1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RC SYSTEM LOOP 4 WELD MAP SECTIONAL
REV. 0	FIG. NO. C-05
BY: SP	DATE 2/14/83
APP: AA	DATE 2/15/83
PROJECT: SNPS 5562	CLASS 1
NOT TO SCALE	



REF. DWG.
U.E. & C.-800049 ISI REV. 0

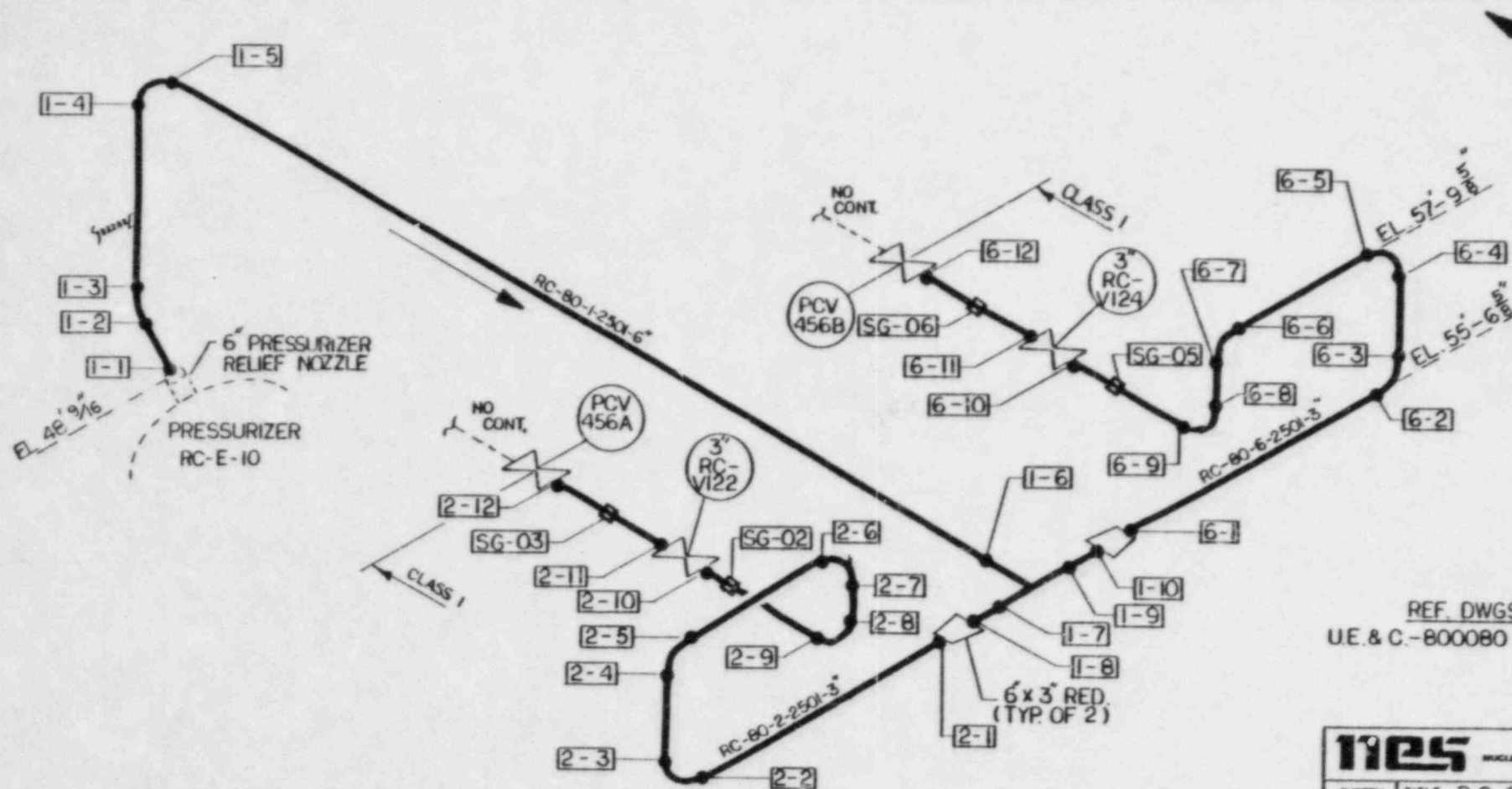
NOTE: FOR COMPLETE IDENTIFICATION WELD &
HANGERS HAVE THE PREFIX RC-49-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE

NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 49 WELD & HANGER MAP
REV. 0	FIG. NO. C-06
BY: TEW	DATE 5/27/82
APP: JH	DATE 8/26/82
PROJECT	SNPS. I 5562
NOT TO SCALE	



NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-80-.

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE

REF. DWGS.
U.E. & C.-800080 ISI REV. 0

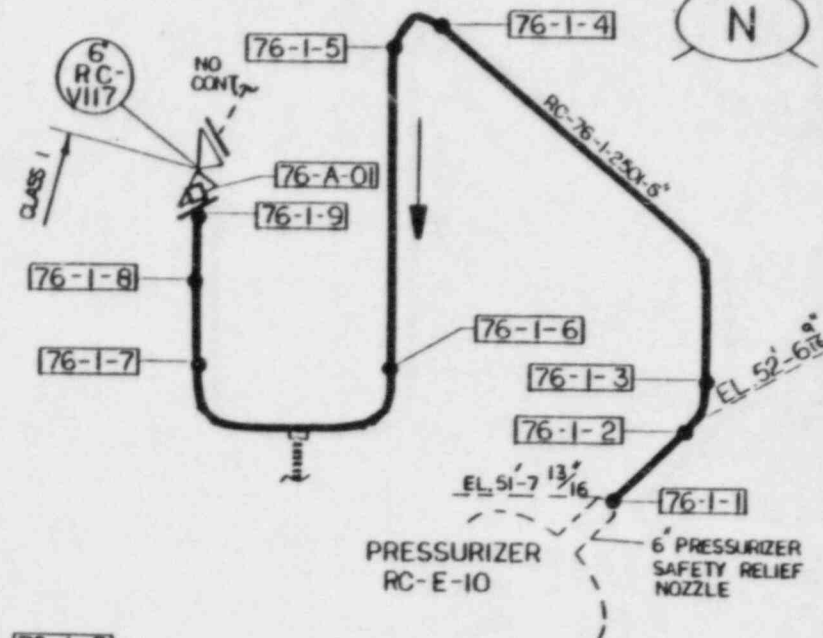
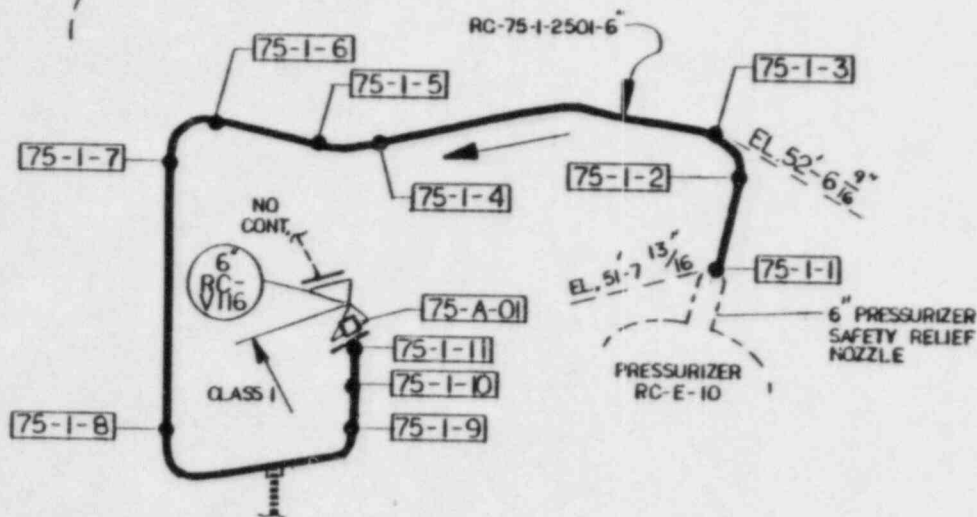
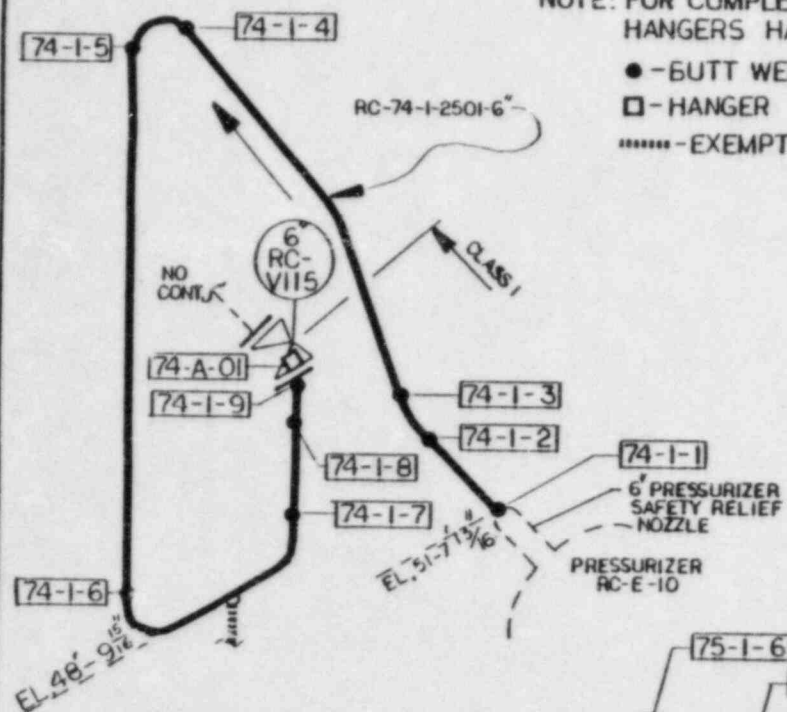
NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 80 WELD & HANGER MAP
REV. 0	FIG. NO. C-07
BY: TEL	DATE 6/14/82
APP: AA	DATE 8/26/82
PROJECT	S.N.P.S. I 5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



REF. DWGS.
U.E. & C.- 800074 ISI. REV. 0
- 800075 ISI. REV. 0
- 800076 ISI. REV. 0

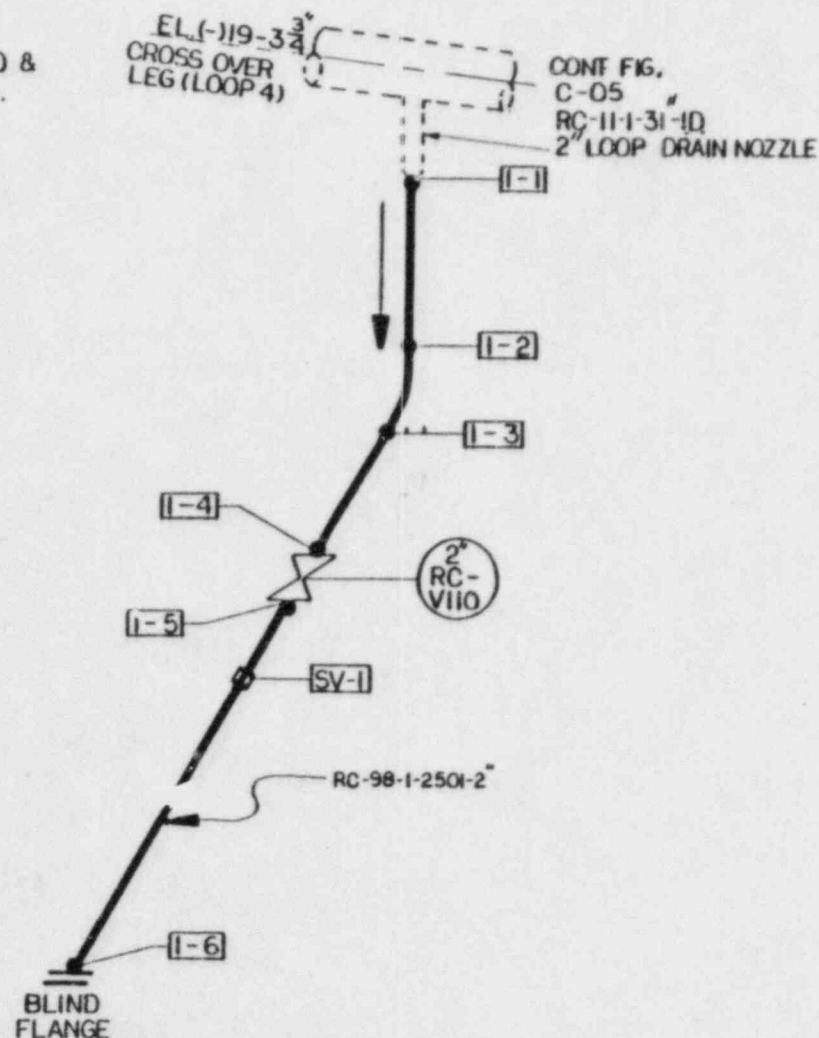
1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NOS. 74, 75 & 76 WELD & HANGER MAP
REV. 0	FIG. NO. C-08
BY: TEL	DATE 6/14/82
APP: AA	DATE 8/26/82
PROJECT: S.N.P.S. 1	5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-98-

● - BUTT WELD (SHOP OR FIELD)

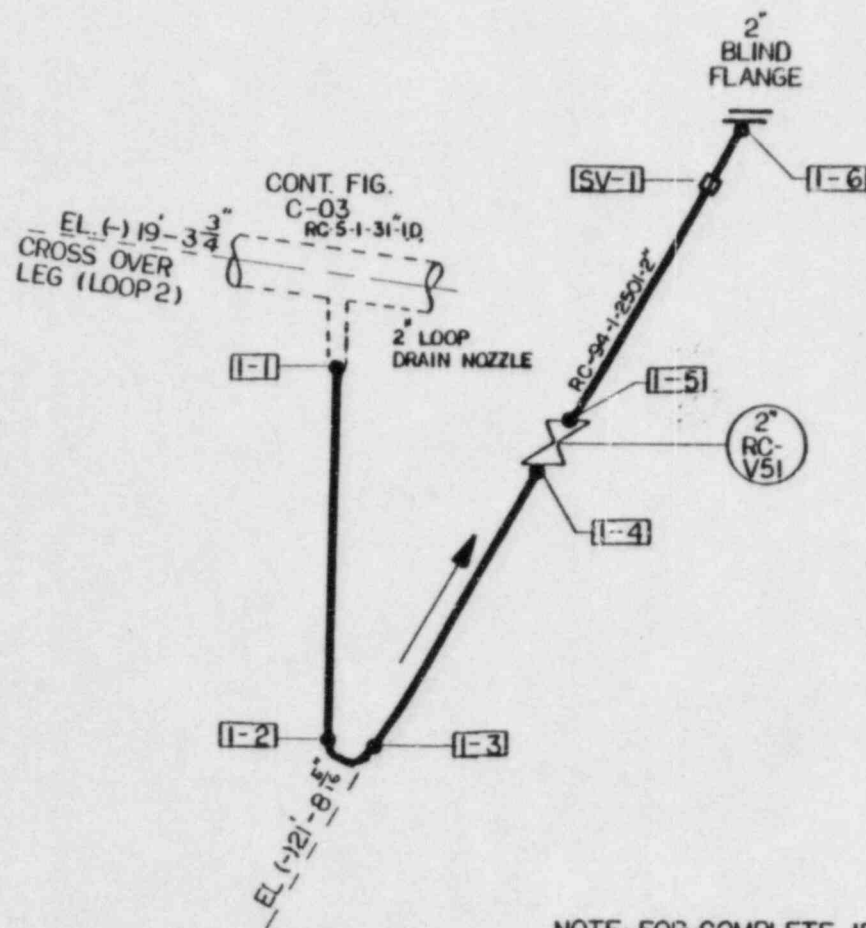
□ - HANGER

----- EXEMPT LINE



REF. DWG.
 U.E.&C.-800098 ISI REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 98 WELD & HANGER MAP
REV. 0	FIG. NO. C-09
BY: TELJ	DATE 6/1/82
APP: AA	DATE 8/26/82
PROJECT: SNPS. 1	5562
NOT TO SCALE	



REF. DWG.
U.E. & C.-800094 ISI REV. 0

NOTE: FOR COMPLETE IDENTIFICATION WELD &
HANGERS HAVE THE PREFIX RC-94-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE

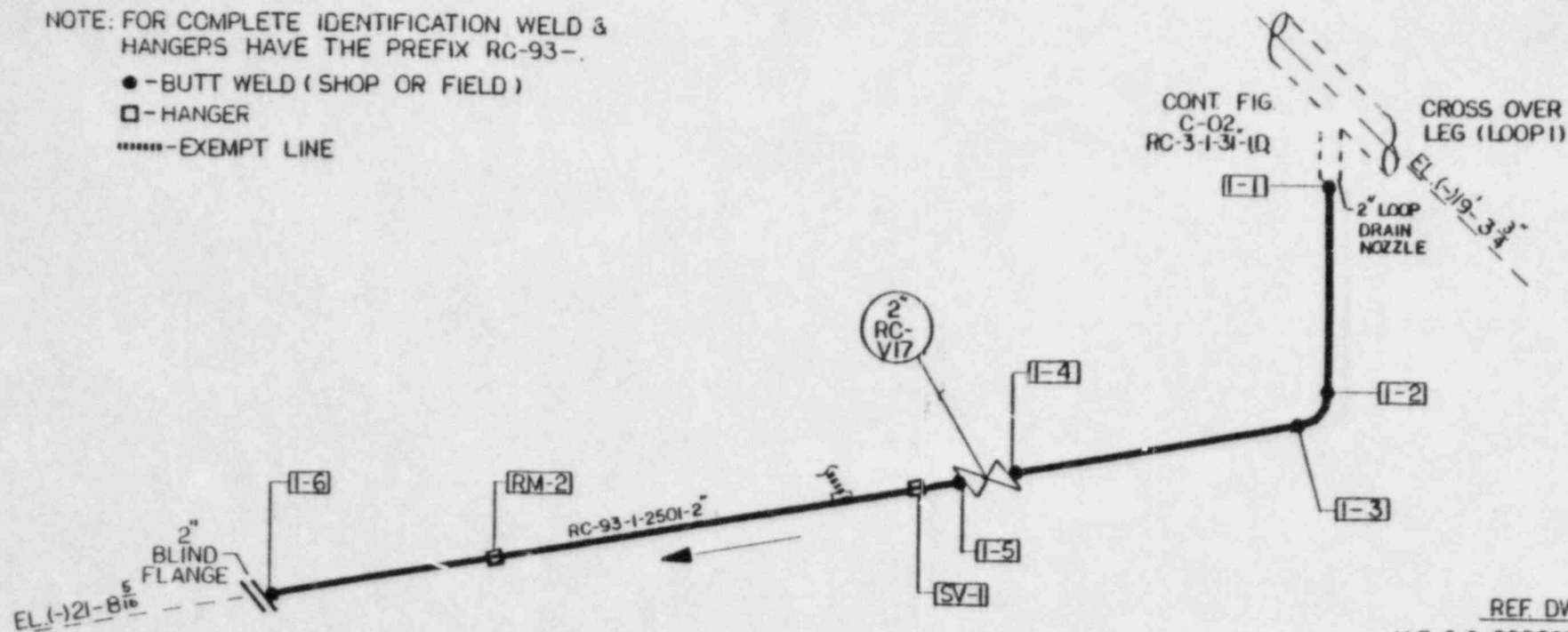
nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO 94 WELD & HANGER MAP
REV. 0	FIG. NO. C-10
BY: TELW APP: JAA	DATE 5/24/82 DATE 8/26/82
PROJECT S.N.P.S. 1	CLASS 1 5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-93-

● - BUTT WELD (SHOP OR FIELD)

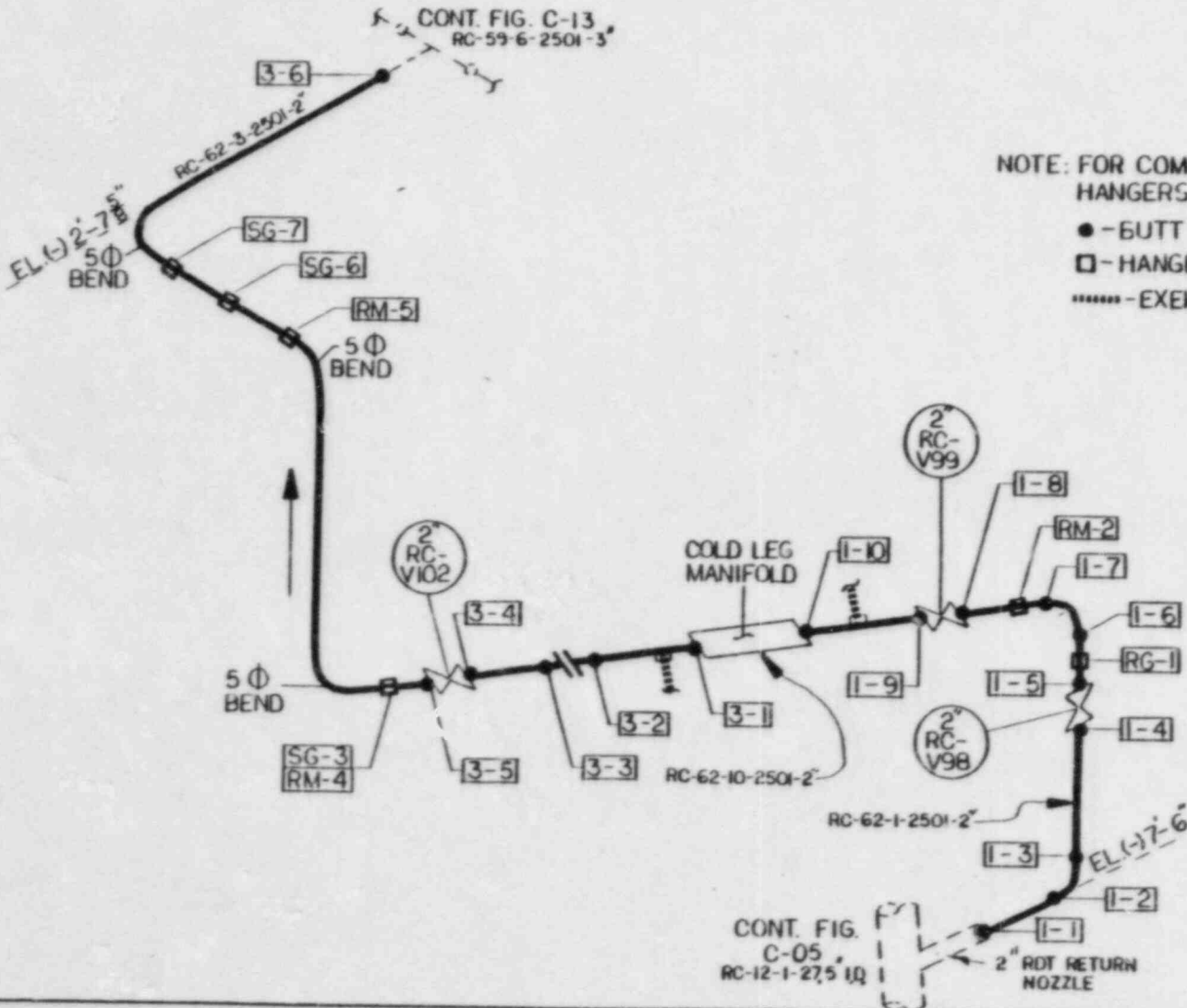
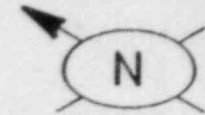
□ - HANGER

----- EXEMPT LINE



REF. DWG.
U.E. & C-800093 ISI REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 93 WELD & HANGER MAP
REV. 0	FIG. NO. C-11
BY: TEW APP: JA	DATE: 8/2/82 DATE: 8/2/82
PROJECT	SNPS. I 5562
NOT TO SCALE	



NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-62-.

- - BUTT WELD (SHOP OR FIELD)
- - HANGER
- EXEMPT LINE

REF. DWGS.
U.E. & C. - 800062 ISI REV. 0

NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RC. SYSTEM LINE NO. 62 WELD & HANGER MAP
REV. 0	FIG. NO. C-12
BY: TEL	DATE 6/9/82
APP: JA	DATE 8/26/82
PROJECT	S.N.P.S. I 5562
NOT TO SCALE	

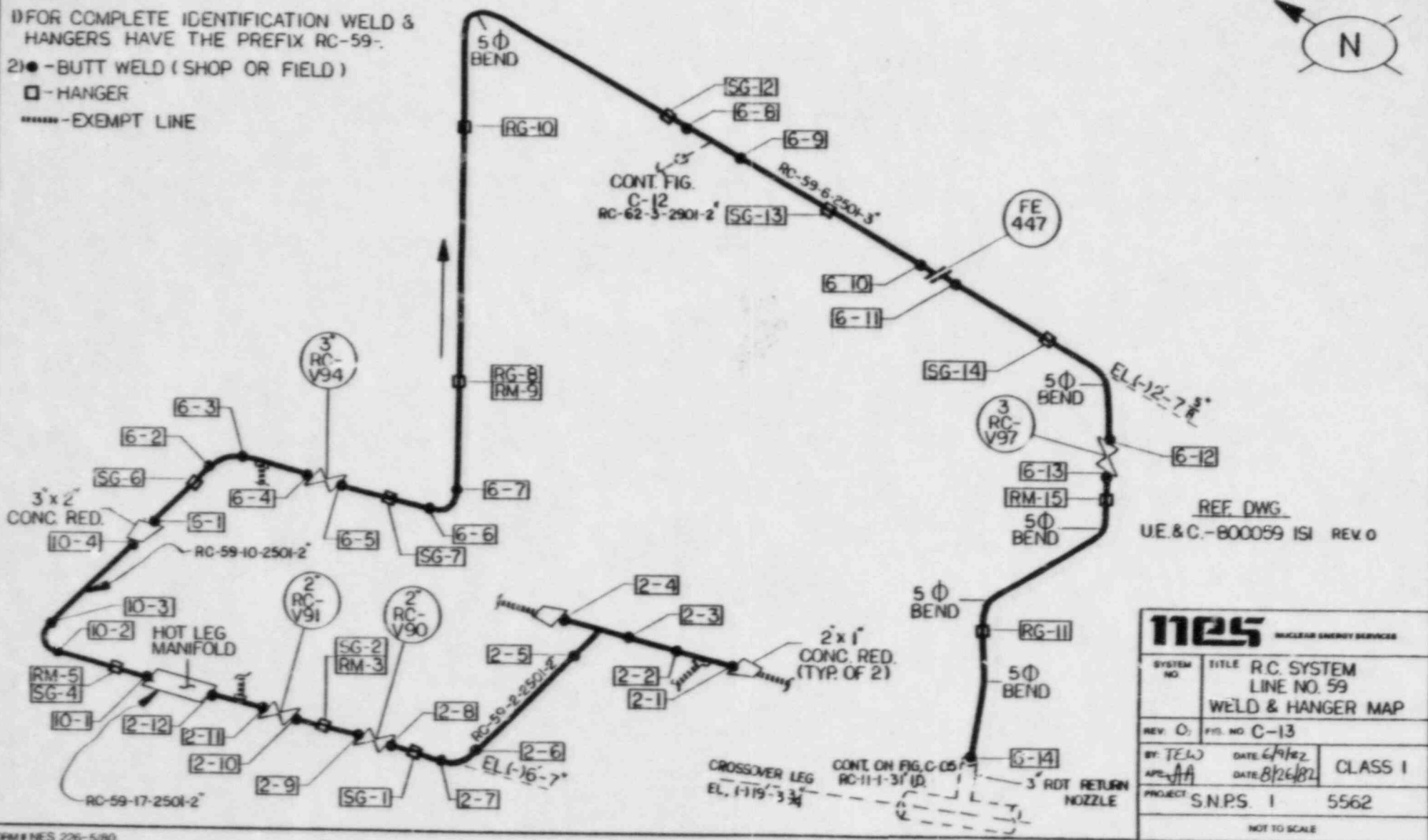
NOTE:

1) FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-59-

2) ● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE

REF. DWG.
U.E. & C.-800059 ISI REV. 0

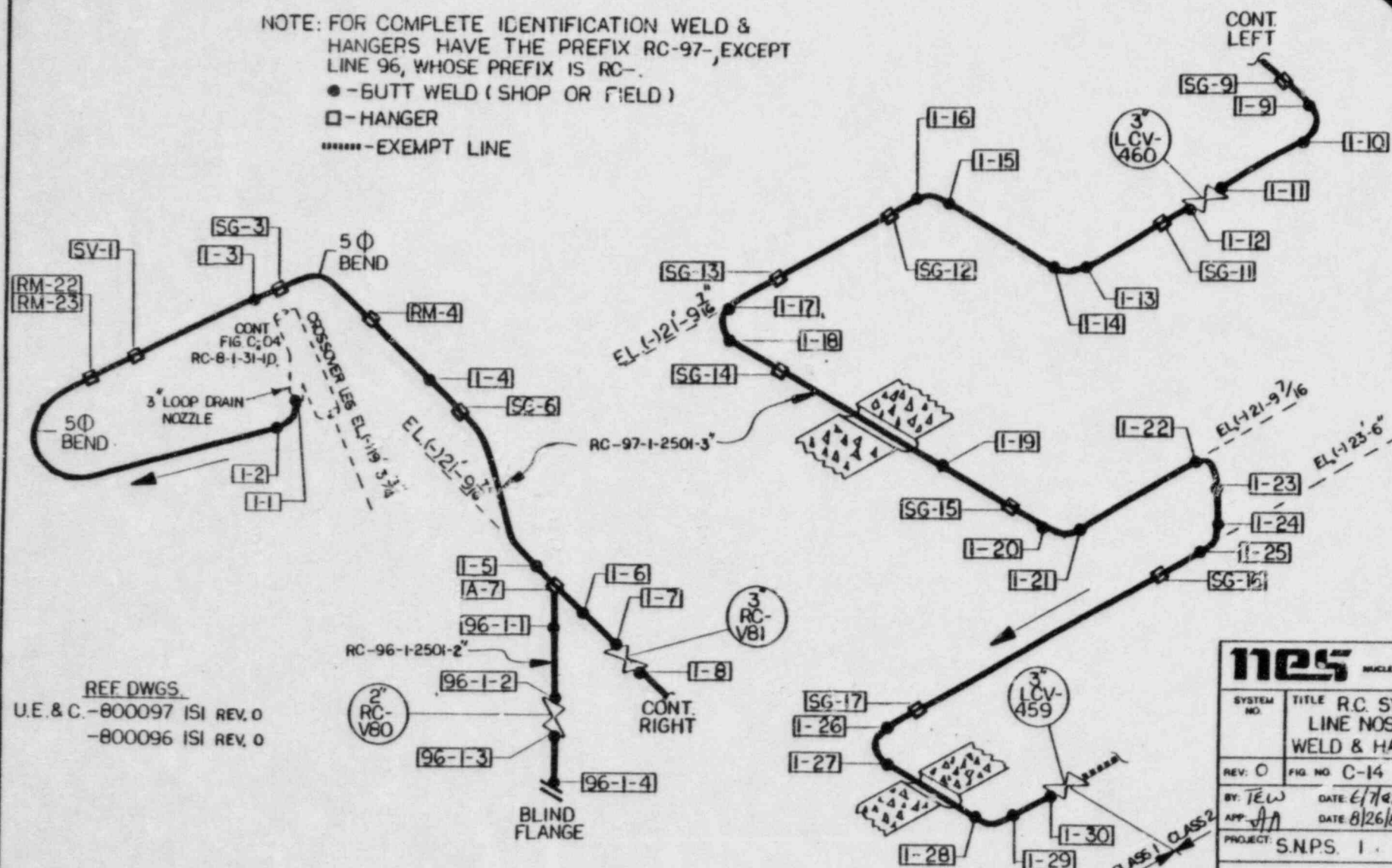
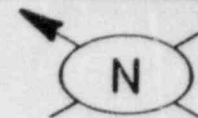
1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 59 WELD & HANGER MAP
REV. 0	FIG. NO. C-13
BY: TEL	DATE 6/9/82
APL: AA	DATE 8/26/82
PROJECT	CLASS 1
SN.PS. 1	5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-97-, EXCEPT LINE 96, WHOSE PREFIX IS RC-.

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

..... - EXEMPT LINE



REF DWGS.
U.E. & C. -800097 ISI REV. 0
-800096 ISI REV. 0

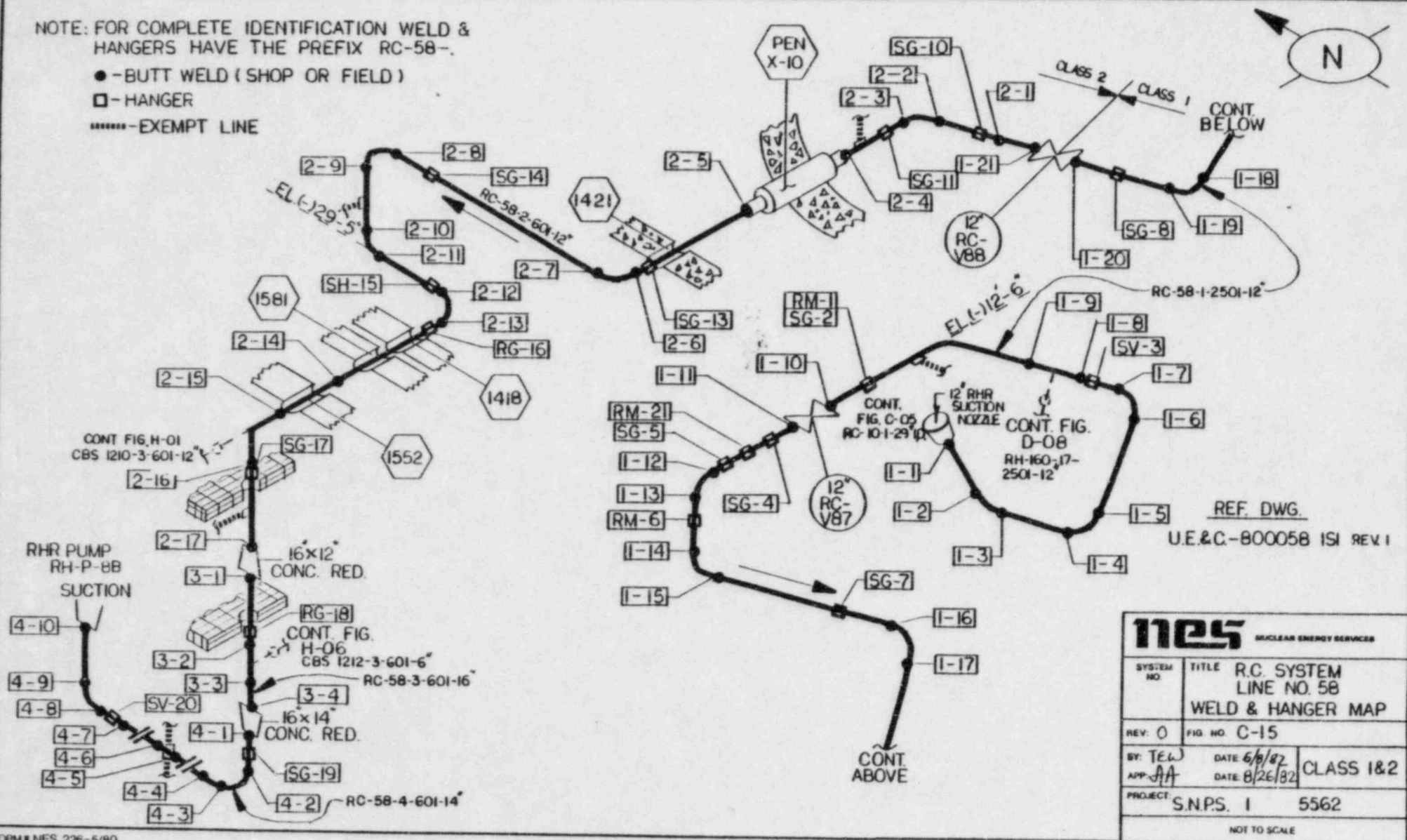
NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NOS. 97 & 96 WELD & HANGER MAP
REV: 0	FIG. NO. C-14
BY: TEW	DATE: 6/7/82
APP: AA	DATE: 8/26/82
PROJECT: S.N.P.S. I	5562
CLASS 1 CLASS 2	
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-58-.

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



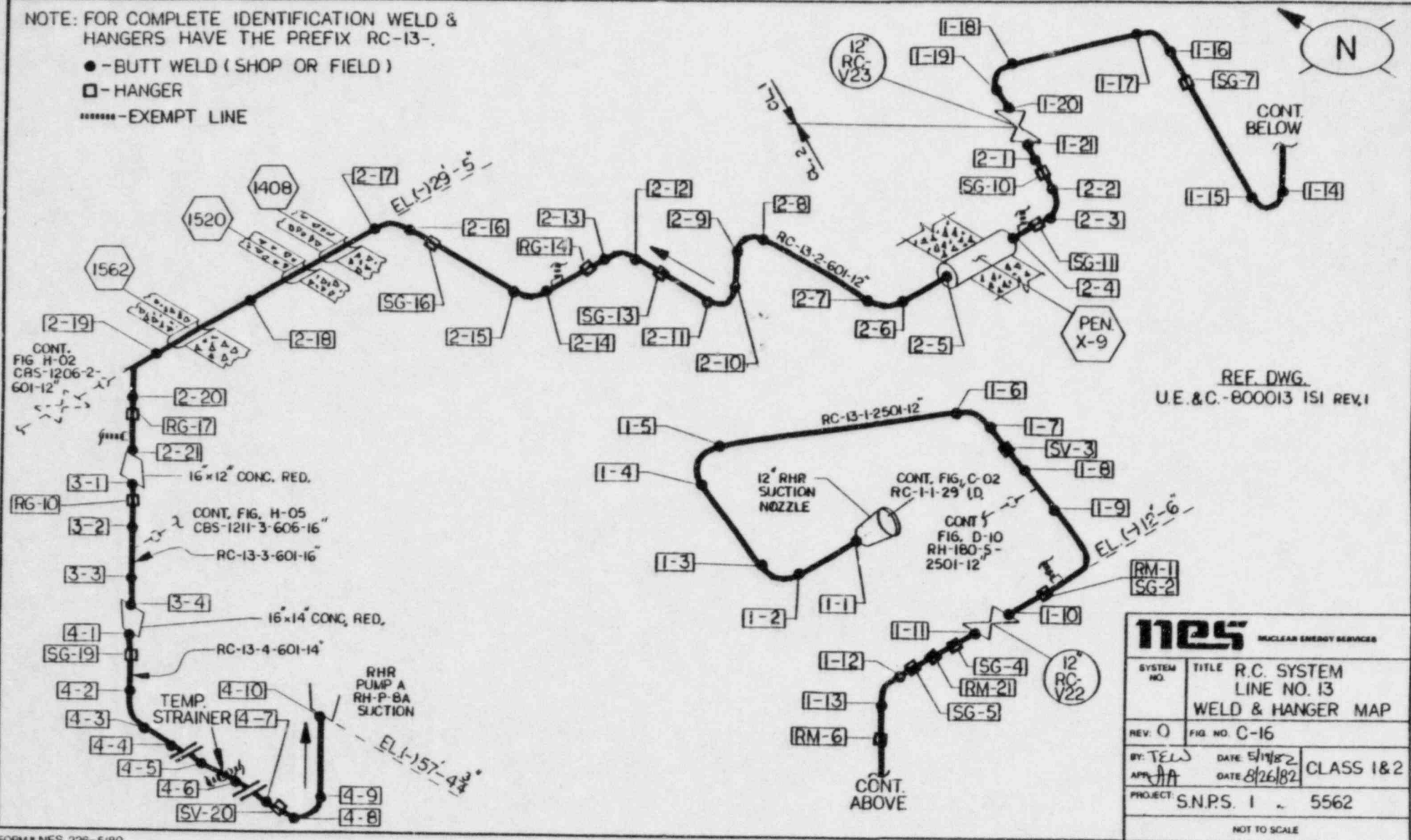
nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 58 WELD & HANGER MAP
REV. 0	FIG. NO. C-15
BY: TEL	DATE 6/8/82
APP: JF	DATE 8/26/82
PROJECT	S.N.P.S. I 5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RC-13-.

● - BUTT WELD (SHOP OR FIELD)

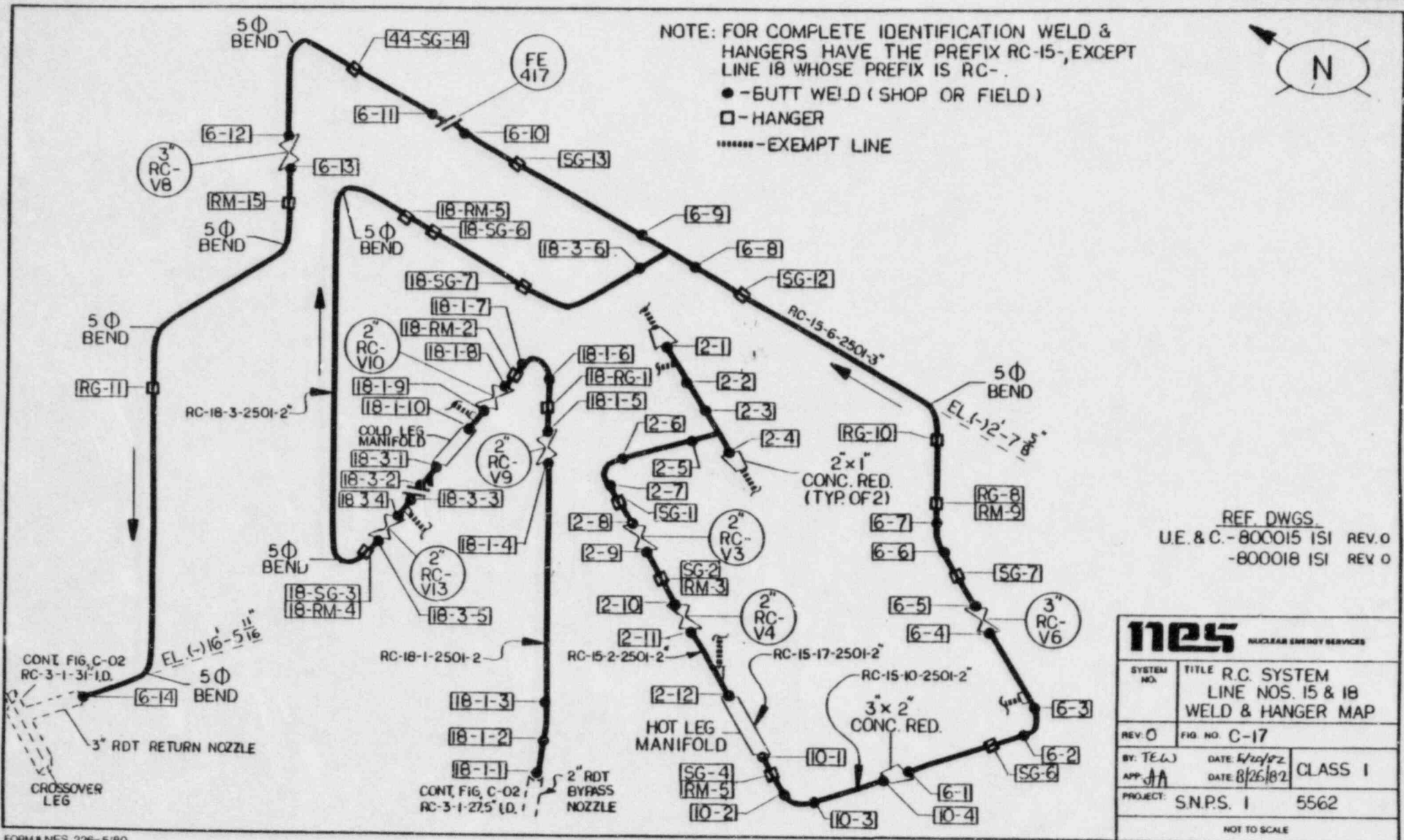
□ - HANGER

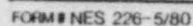
----- EXEMPT LINE

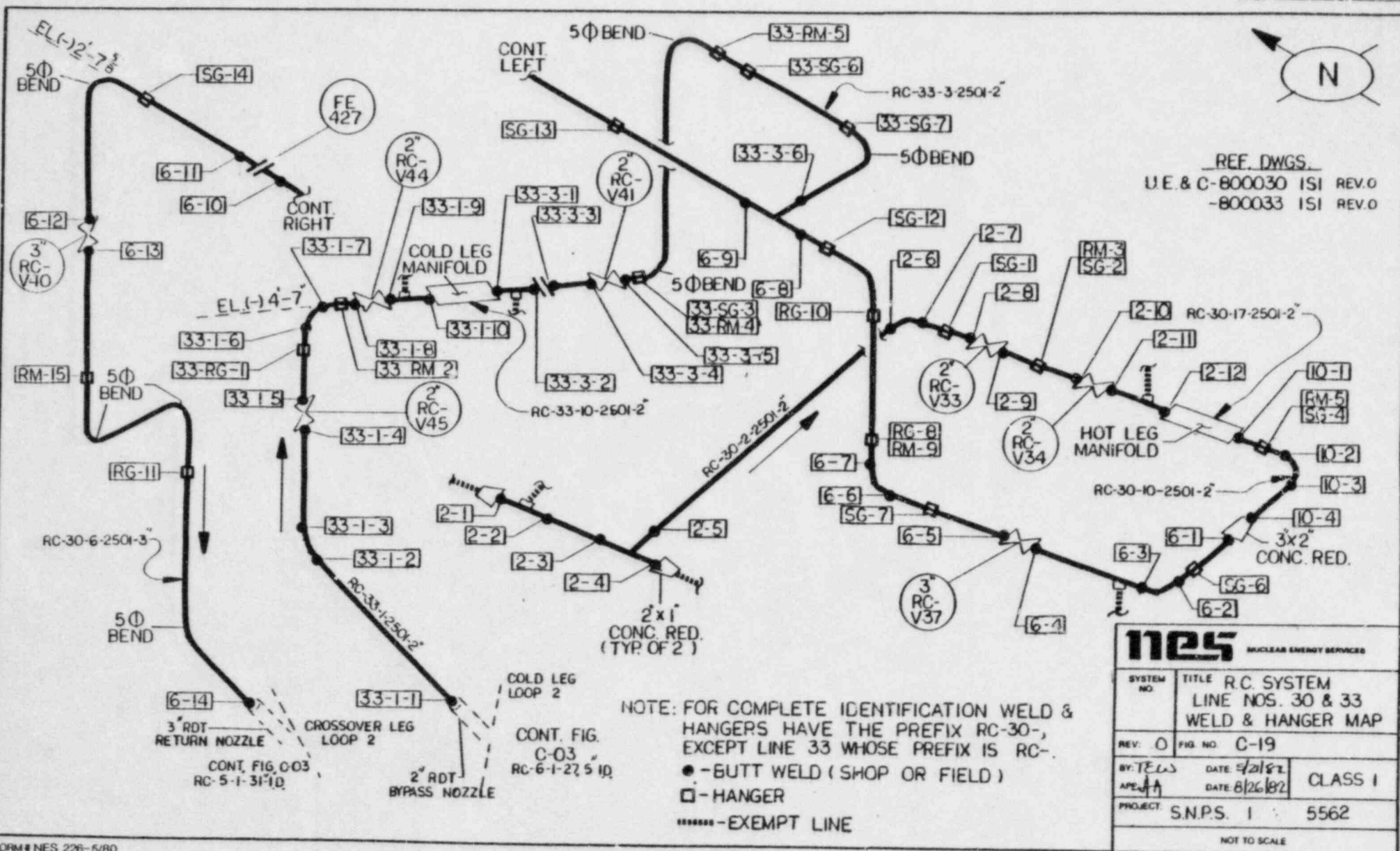


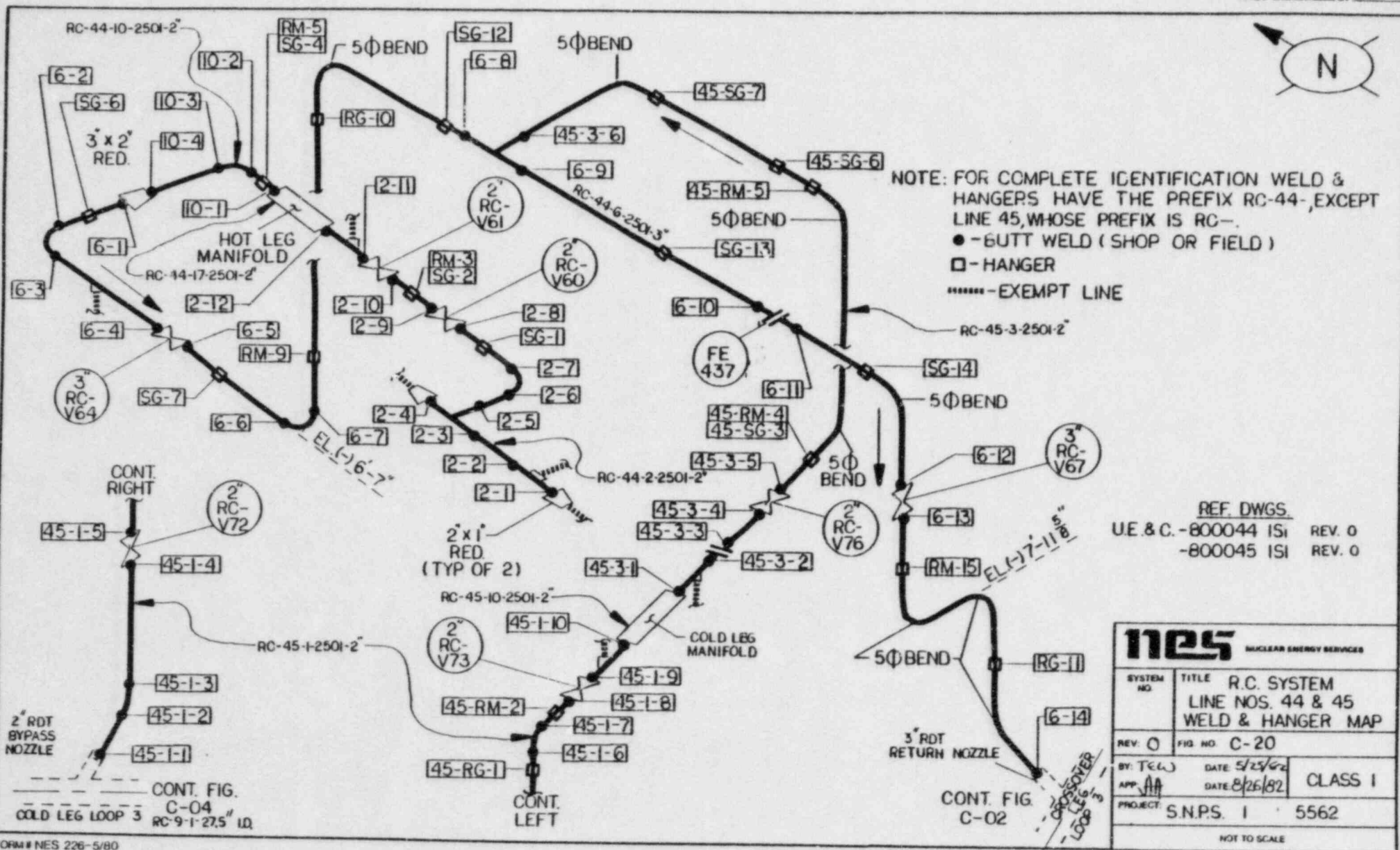
REF. DWG.
U.E. & C.-800013 ISI REV. 1

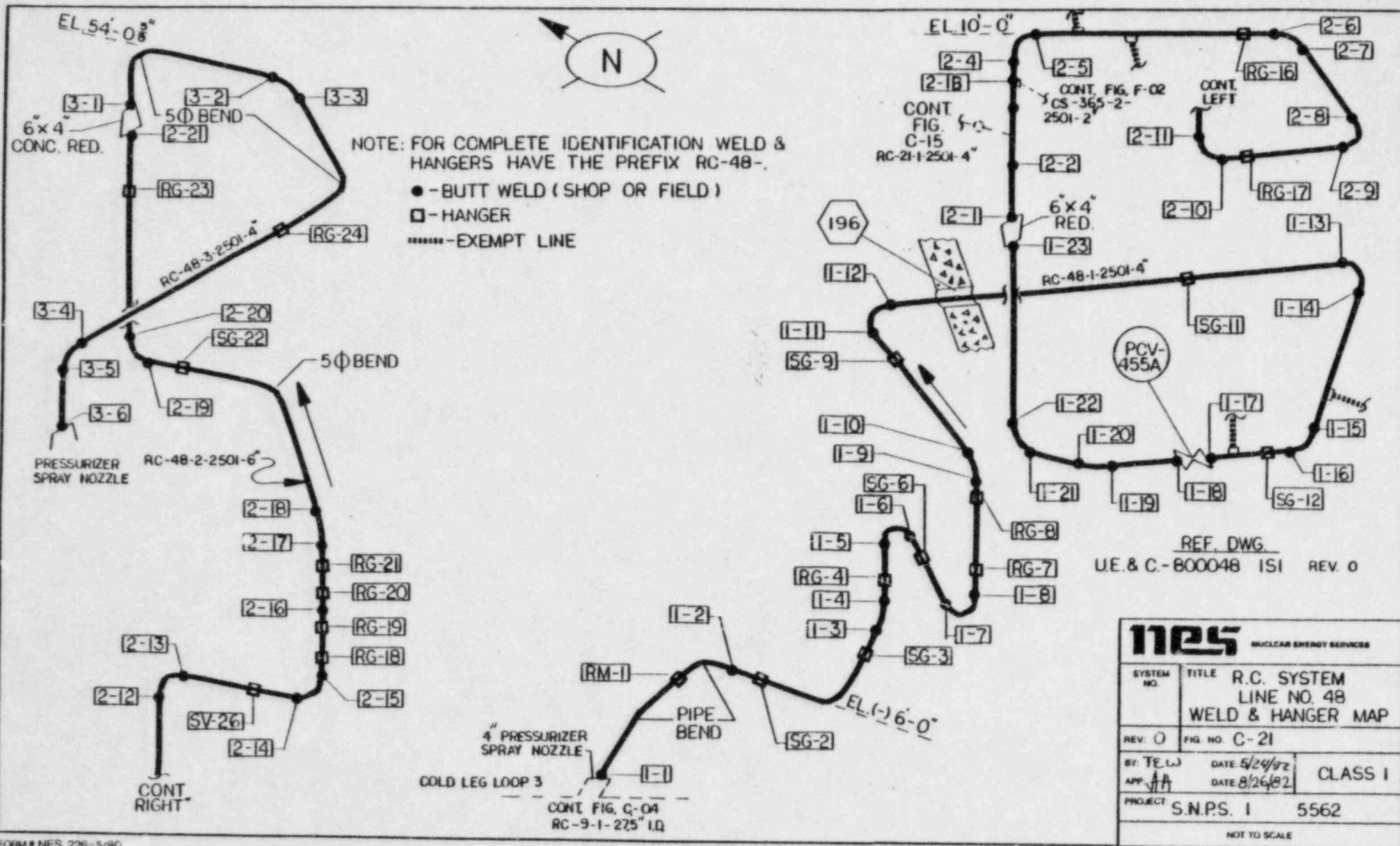
NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.C. SYSTEM LINE NO. 13 WELD & HANGER MAP
REV. 0	FIG. NO. C-16
BY: TEL	DATE 5/17/82
APP: AA	DATE 8/26/82
PROJECT	CLASS 1 & 2
S.N.P.S. 1 5562	
NOT TO SCALE	

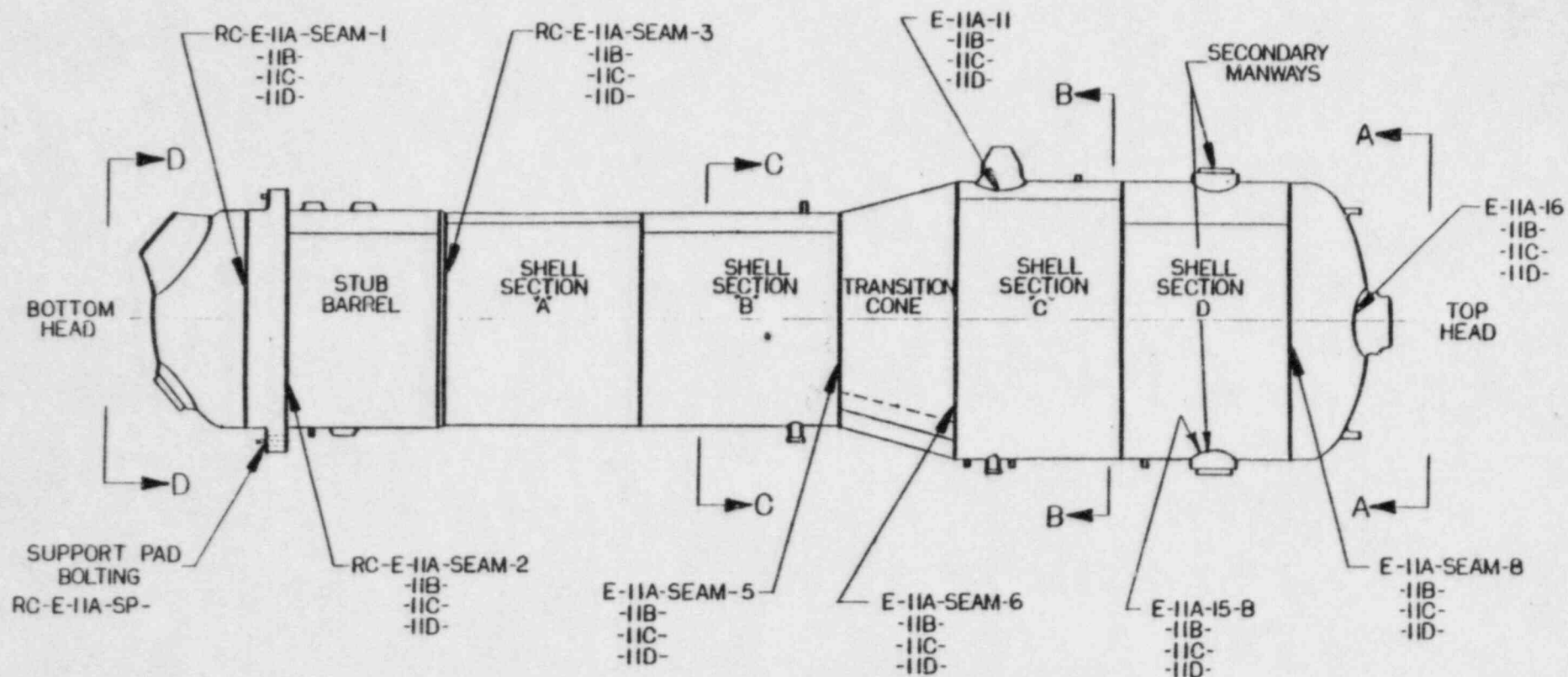






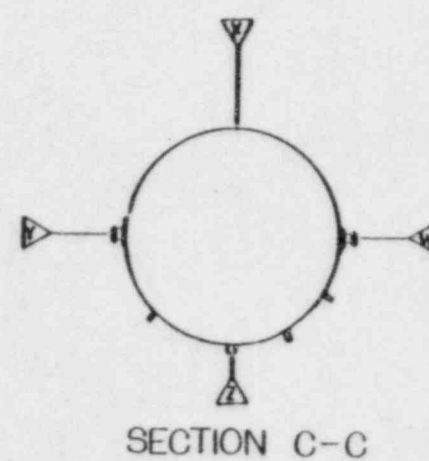
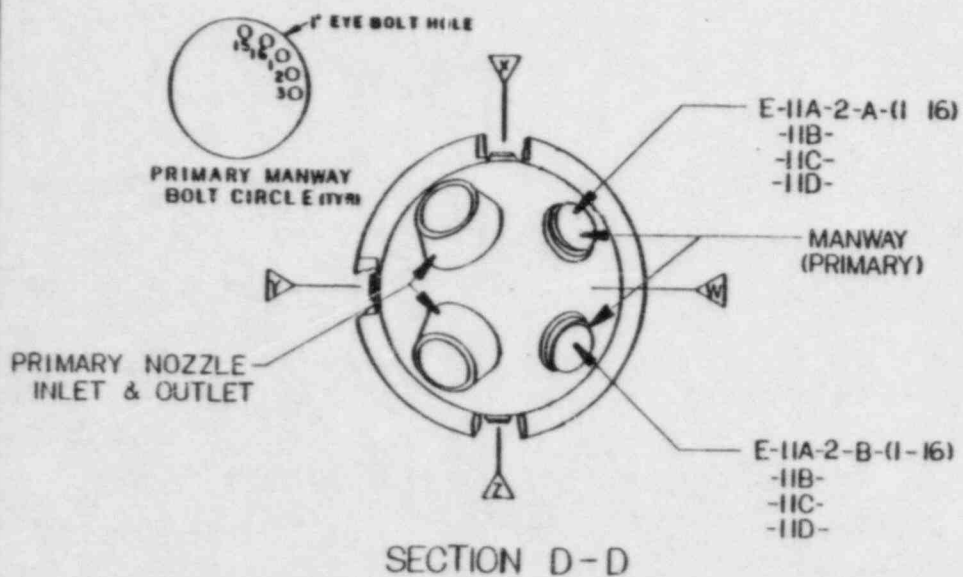
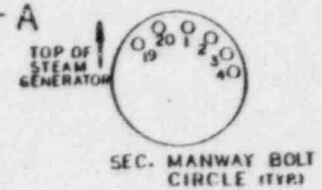
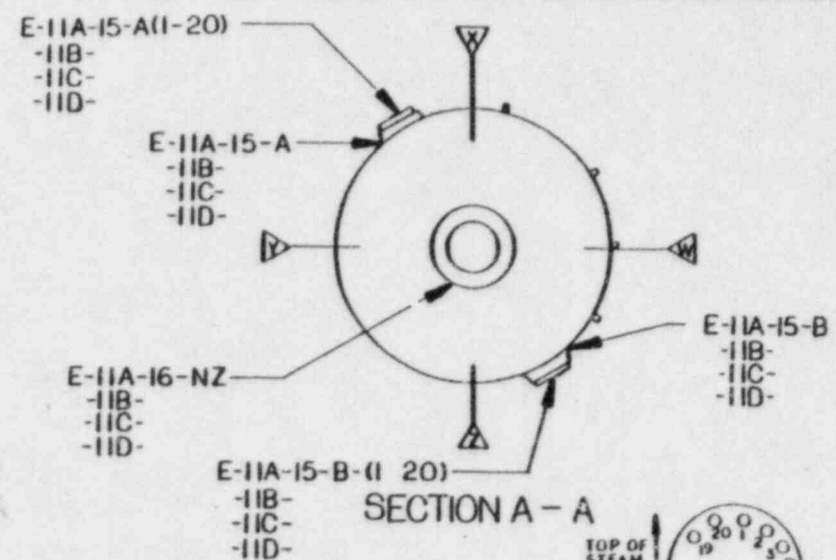
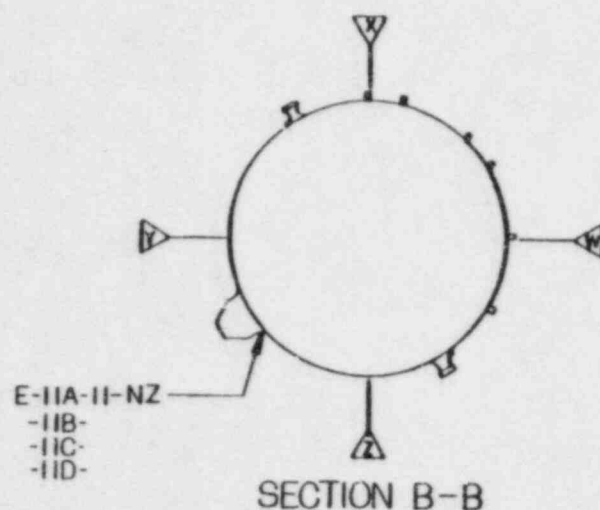




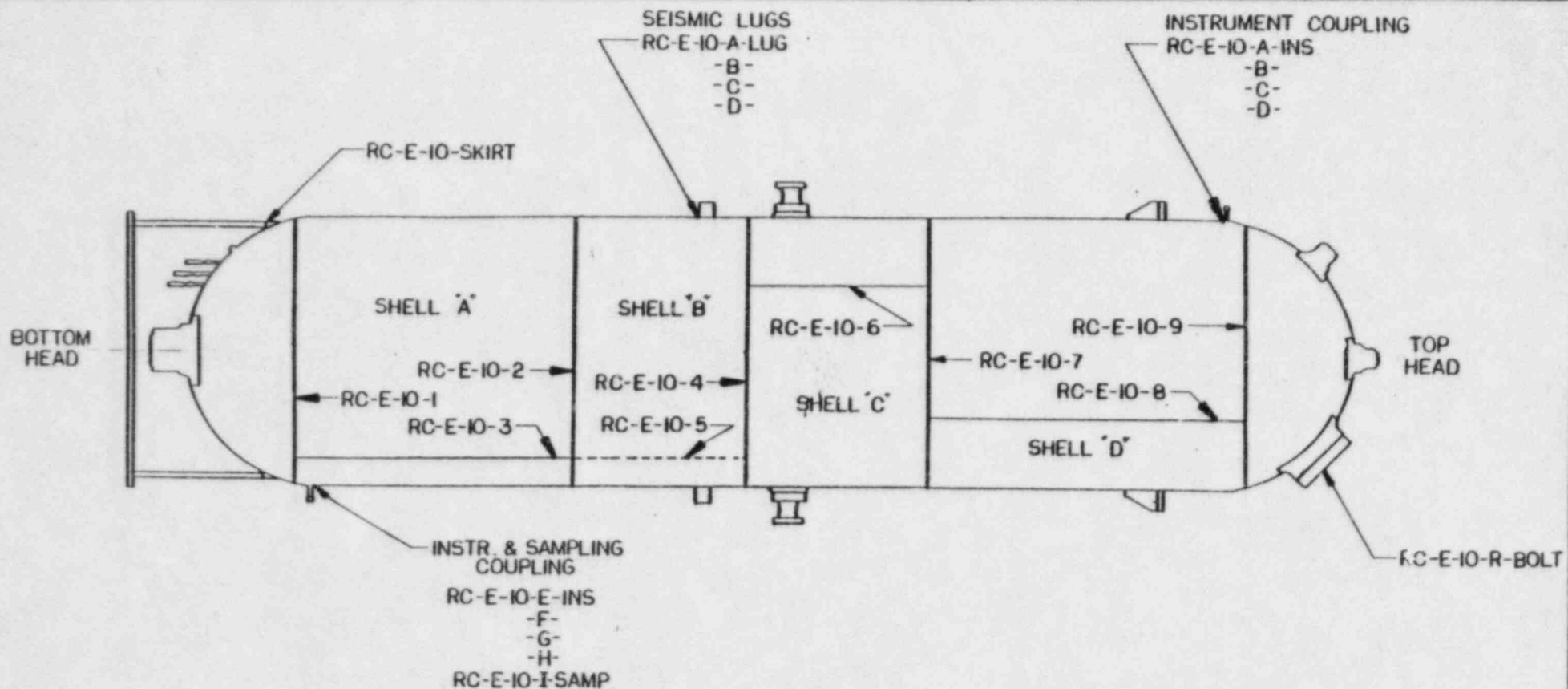


REF. DWGS.
W - 1182J07

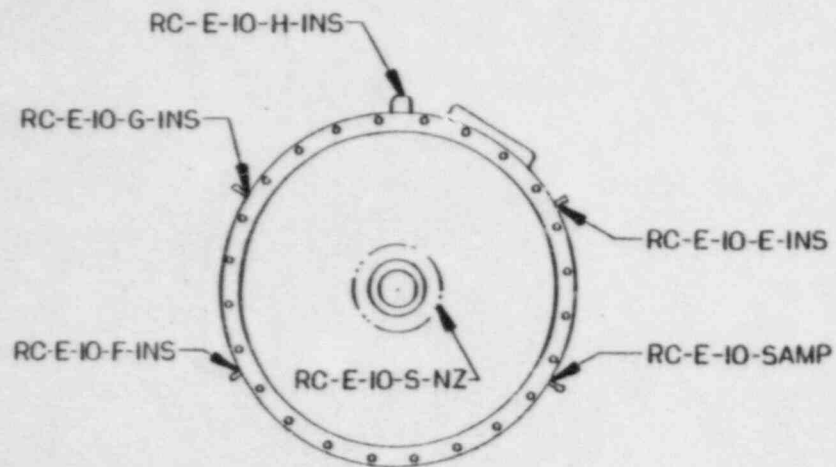
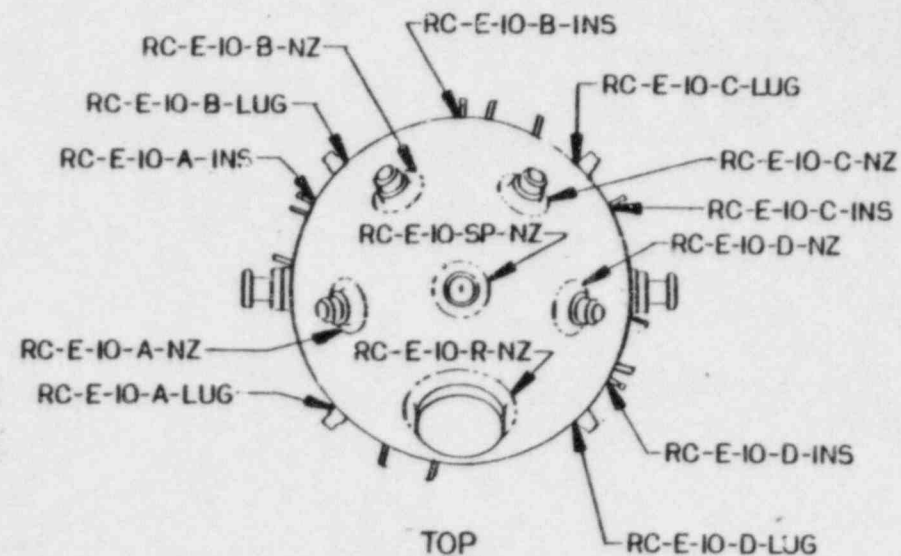
1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE STEAM GENERATOR E-11A,B,C,D WELD MAP
REV: 0	FIG. NO. C-22
BY: TELJ	DATE: 7/16/82
APP: JFA	DATE: 8/26/82
PROJECT:	S.N.P.S. I 5562
NOT TO SCALE	



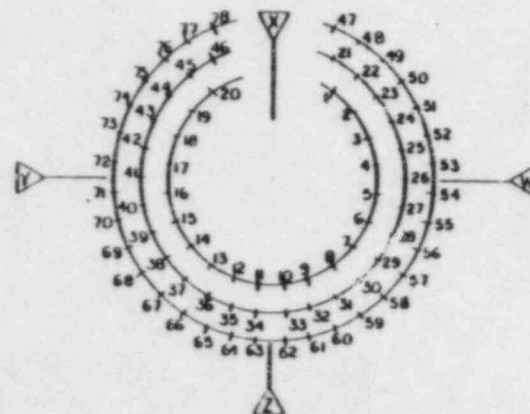
1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE STEAM GENERATOR E-IIA,B,C,D
	SECT. VIEW WELD MAP
REV. 0	FIG. NO. C-23
BY: TEL	DATE 7/16/82
APP: AA	DATE 8/26/82
PROJECT: S.N.P.S. 1	CLASS 5562
NOT TO SCALE	



1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE PRESSURIZER
REV: 0	FIG. NO. C-24
BY: TEW	DATE: 7/16/82
APP: J A	DATE: 8/26/82
PROJECT: S.N.P.S. I	CLASS 5562
NOT TO SCALE	

BOTTOM VIEWTOP VIEW

RC-E-10-HTRS (1 - 78)

HEATERS LOCATIONS
(BOTTOM VIEW)

REF. DWGS.
W -1101J82
 1101J83

1105 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE PRESSURIZER RC-E-10 WELD MAP
REV. 0	FIG. NO. C-25
BY: TEW	DATE: 7/26/82
APP: AA	DATE: 8/26/82
PROJECT: S.N.P.S. I	CLASS I
5562	
NOT TO SCALE	



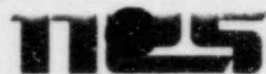
PROGRAM PLAN AND SCHEDULE

System: Reactor Coolant
Document No. 80A8983
Preservice Inspection

5562-SEABROOK

By: JH Date: 12/83
App: HT Date: 12/82
Rev: 0 Page: 37 of 179

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1"							
Reference Drawing No: C-01, C-02							
1-RC-1-1-1	29" RPV Nozzle Safe End to Pipe	80A6462	SB-RC-4	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-1-1-5B	29" Pipe to 12" Branch Connection	80A6462	SB-RC-4	B-J	UT		
				B9.31			
		80A6472	N/A		PT		
1-RC-1-1-6B	29" Pipe to 1 1/2" Thermowell	80A6472	N/A	B-5	PT		
				B9.32			
1-RC-1-1-2	29" Pipe to Elbow	80A6462	SB-RC-4	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-1-1-3	29" Elbow to Steam Generator Nozzle	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-2-1-1	31" Steam Generator Nozzle To Elbow	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-2-1-2	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-2-1-3	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		



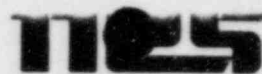
PROGRAM PLAN AND SCHEDULE

System: Reactor Coolant
Document No. 80A8983
Preservice Inspection

5562-SEABROOK

By: JA Date: 12/83
App: 11 Date: 12/83
Rev: 0 Page: 38 of 179

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1"							
Reference Drawing No: C-01, C-02							
1-RC-2-1-4	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
		80A6472	N/A		PT		
1-RC-2-1-4B	31" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
				B9.32			
1-RC-2-1-5B	31" Pipe to 3" Branch Connection	80A6462	SB-RC-3	B-J	UT		
		80A6472	N/A		PT		
1-RC-2-1-5	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
		80A6472	N/A		PT		
1-RC-2-1-6	31" Elbow to RC Pump Nozzle	80A6462	Later	B-J	UT		Exception 1
		80A6472	N/A		PT		
1-RC-3-1-1	27 1/2" RC Pump Nozzle To Pipe	80A6462	SB-RC-4	B-J	UT		Exception 1
		80A6472	N/A		PT		
1-RC-3-1-1B	27 1/2 Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
				B9.32			



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PIPING WELDS - "LOOP - 1" Reference Drawing No: C-01, C-02							
i-RC-3-1-2B	27 1/2" Pipe to 1 1/2" Thermowell	80A6472	N/A	B-J B9.32	PT		
1-RC-3-1-5B	27 1/2" Pipe to 10" Branch Connection	80A6462	SB-RC-4	B-J B9.31	UT		
		80A6472	N/A		PT		
1-RC-3-1-6B	27 1/2" Pipe to 4" Branch Connection	80A6462	SB-RC-4	B-J B9.31	UT		
		80A6472	N/A		PT		
1-RC-3-1-7B	27 1/2" Pipe to 3" Branch Connection	80A6462	SB-RC-4	B-J B9.31	UT		
		80A6472	N/A		PT		
1-RC-3-1-2	27 1/2" Pipe to Elbow	80A6462	SB-RC-4	B-J B9.31	UT		Exception 1
		80A6472	N/A		PT		
1-RC-3-1-3	27 1/2" Elbow to RPV Nozzle Safe End	80A6462	Later	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: C-01, C-03							
1-RC-4-1-1	29" RPV Nozzle Safe End to Pipe	80A6462	SB-RC-4	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-4-1-5B	29" Pipe to 6" Branch Connection	80A6462	SB-RC-4	B-J	UT		
				B9.31			
		80A6472	N/A		PT		
1-RC-4-1-2	29" Pipe to Elbow	80A6462	SB-RC-4	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-4-1-3	29" Elbow to Steam Generator Nozzle	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-5-1-1	31" Steam Generator Nozzle To Elbow	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-5-1-2	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-5-1-3	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-5-1-4	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: C-01, C-03							
1-RC-5-1-5B	31" Pipe to 2" Branch Connection	80A6462	SB-RC-3	B-J	UT		
		80A6472	N/A	B9.32	PT		
1-RC-5-1-4B	31" Pipe to 3" Branch Connection	80A6462	SB-RC-3	B-J	UT		
		80A6472	N/A	B9.31	PT		
1-RC-5-1-5	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
		80A6472	N/A	B9.11	PT		
1-RC-5-1-6	31" Elbow to RC Pump Nozzle	80A6462	Later	B-J	UT		Exception 1
		80A6472	N/A	B9.11	PT		
1-RC-6-1-1	27 1/2" RC Pump Nozzle to Pipe	80A6462	SB-RC-4	B-J	UT		Exception 1
		80A6472	N/A	B9.11	PT		
1-RC-6-1-1B	27 1/2" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
1-RC-6-1-3B	27 1/2" Pipe to 10" Branch Connection	80A6462	SB-RC-4	B-J	UT		
		80A6472	N/A	B9.31	PT		
1-RC-6-1-4B	27 1/2" Pipe to 3" Branch Connection	80A6462	SB-RC-4	B-J	UT		
		80A6472	N/A	B9.31	PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: C-01, C-03							
1-RC-6-1-2	27 1/2" Pipe to Elbow	80A6462	SB-RC-4	B-J	UT		Exception 1
		80A6472	N/A		PT		
1-RC-6-1-3	27 1/2" Elbow to RPV Nozzle Safe End	80A6462	Later	B-J	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 3"							
Reference Drawing No: C-01, C-04							
1-RC-7-1-1	29" RPV Nozzle Safe End to Pipe	80A6462	SB-RC-4	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-7-1-5B	29" Pipe to 14" Branch Connection	80A6462	SB-RC-4	B-J	UT		
				B9.31			
		80A6472	N/A		PT		
1-RC-7-1-6B	29" Pipe to 6" Branch Connection	80A6462	SB-RC-4	B-J	UT		
				B9.31			
		80A6472	N/A		PT		
1-RC-7-1-2	29" Pipe to Elbow	80A6462	SB-RC-4	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-7-1-3	29" Elbow to Steam Generator Nozzle	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-8-1-1	31" Steam Generator Nozzle to Elbow	80A6462	Later	B-J	UT		
				B9.11			
		80A6472	N/A		PT		
1-RC-8-1-2	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		
1-RC-8-1-3	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
				B9.11			
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: C-01, C-04							
1-RC-8-1-4	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-8-1-4B	31" Pipe to 3" Branch Connection	80A6462	SB-RC-3	B-J	UT	B9.31	
		80A6472	N/A		PT		
1-RC-8-1-5B	31" Pipe to 3" Branch Connection	80A6462	SB-RC-3	B-J	UT	B9.31	
		80A6472	N/A		PT		
1-RC-8-1-5	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-8-1-6	31" Elbow to RC Pump Nozzle	80A6462	Later	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-9-1-1	27 1/2" RC Pump Nozzle to Pipe	80A6462	SB-RC-4	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-9-2B	27 1/2" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT	B9.32	
1-RC-9-1-4B	27 1/2" Pipe to 10" Branch Connection	80A6462	SB-RC-4	B-J	UT	B9.31	
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: C-01, C-04							
1-RC-9-1-5B	27 1/2" Pipe to 4" Branch Connection	80A6462	SB-RC-4	B-3	UT		
		80A6472	N/A	B9.31	PT		
1-RC-9-1-6B	27 1/2" Pipe to 6" Branch Connection	80A6462	SB-RC-4	B-3	UT		
		80A6472	N/A	B9.31	PT		
1-RC-9-1-2	27 1/2" Pipe to Elbow	80A6462	SB-RC-4	B-3	UT		Exception 1
		80A6472	N/A	B9.11	PT		
1-RC-9-1-3	27 1/2" Elbow to RPV Nozzle Safe End	80A6462	Later	B-3	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: C-01, C-05							
1-RC-10-1-1	29" RPV Nozzle Safe End to Pipe	80A6462	SB-RC-4	B-J	UT		
		80A6472	N/A		B9.11 PT		
1-RC-10-1-5B	29" Pipe to 12" Branch Connection	80A6462	SB-RC-4	B-J	UT		
		80A6472	N/A		B9.31 PT		
1-RC-10-1-6B	29" Pipe to 1 1/2" Thermowell	80A6472	N/A	B-J	PT		
					B9.32		
1-RC-10-1-2	29" Pipe to Elbow	80A6462	SB-RC-4	B-J	UT		Exception 1
		80A6472	N/A		B9.11 PT		
1-RC-10-1-3	29" Elbow to Steam Generator Nozzle	80A6462	Later	B-J	UT		
		80A6472	N/A		B9.11 PT		
1-RC-11-1-1	31" Steam Generator Nozzle to Elbow	80A6462	Later	B-J	UT		
		80A6472	N/A		B9.11 PT		
1-RC-11-1-2	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT		Exception 1
		80A6472	N/A		B9.11 PT		
1-RC-11-1-3	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT		Exception 1
		80A6472	N/A		B9.11 PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: C-01, C-05							
1-RC-11-1-4	31" Elbow to Pipe	80A6462	SB-RC-3	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-11-1-4B	31" Pipe to 3" Branch Connection	80A6462	SB-RC-3	B-J	UT	B9.31	
		80A6472	N/A		PT		
1-RC-11-1-5B	31" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT	B9.32	
1-RC-11-1-5	31" Pipe to Elbow	80A6462	SB-RC-3	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-11-1-6	31" Elbow to RC Pump Nozzle	80A6462	Later	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-12-1-1	27 1/2" RC Pump Nozzle to Pipe	80A6462	SB-RC-4	B-J	UT	B9.11	Exception 1
		80A6472	N/A		PT		
1-RC-12-1-1B	27 1/2" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT	B9.32	
1-RC-12-1-6B	27 1/2" Pipe to 1 1/2" Thermowell	80A6472	N/A	B-J	PT	B9.32	



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PIPING WELDS - "LOOP - 4" Reference Drawing No: C-01, C-05							
1-RC-12-1-2B	27 1/2" Pipe to 2" Branch Connection	80A6472	N/A	B-J B9.32	PT		
1-RC-12-1-4B	27 1/2" Pipe to 10" Branch Connection	80A6462	SB-RC-4	B-J B9.31	UT		
		80A6472	N/A		PT		
1-RC-12-1-5B	27 1/2" Pipe to 3" Branch Connection	80A6462	SB-RC-4	B-J B9.31	UT		
		80A6472	N/A		PT		
1-RC-12-1-2	27 1/2" Pipe to Elbow	80A6462	SB-RC-4	B-J B9.11	UT		Exception 1
		80A6472	N/A		PT		
1-RC-12-1-3	27 1/2" Elbow to RPV Nozzle Safe End	80A6462	SB-RC-4	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-06							
1-RC-49-1-1	14" Branch Connection to Pipe	80A6462	SB-14-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-49-1-2	14" Pipe to Pipe	80A6462	SB-14-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-49-1-3	14" Pipe to Pipe	80A6462	SB-14-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-49-1-4	14" Pipe to Pipe	80A6462	SB-14-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-49-1-5	14" Pipe to Pressurizer Surge Nozzle	80A6462	SB-14-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: C-07							
1-RC-80-1-1	6" Pressurizer Relief Nozzle to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-4	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-5	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-6	6" Pipe to Tee	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-7	6" Tee to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-80-1-8	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



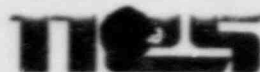
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PIPING WELDS Reference Drawing No: C-07							
1-RC-80-1-9	6" Tee to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-80-1-10	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-80-6-1	6" x 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-6-2	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-80-6-3	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-6-4	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-80-6-5	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-6-6	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-07							
I-RC-80-6-7	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-8	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-9	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-10	3" Pipe to Valve RC-V124	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-11	3" Valve RC-V124 to Pipe	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-12	3" Pipe to Valve PVC-456B	80A6472	N/A	B-J B9.21	PT		
I-RC-80-6-13	3" Valve PVC-456B To Pipe	80A6472	N/A	B-J B9.21	PT		
I-RC-80-2-1	6" x 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-07							
1-RC-80-2-2	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-3	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-4	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-5	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-6	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-7	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-8	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-07							
1-RC-80-2-9	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-10	3" Pipe to Valve RC-V122	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-11	3" Valve RC-V122 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-12	3" Pipe to Valve PVC-456A	80A6472	N/A	B-J B9.21	PT		
1-RC-80-2-13	3" Valve PVC-456A to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS							
Reference Drawing No: C-08							
1-RC-74-1-1	6" Pressurizer Safety Relief Nozzle to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-4	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-5	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-6	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-74-1-7	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A4672	N/A	B9.11	PT		
1-RC-74-1-8	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		

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PIPING WELDS Reference Drawing No: C-08							
1-RC-74-1-9	6" Pipe to Flange at Valve RC-V115	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-1	6" Pressurizer Safety Relief Nozzle to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-4	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-5	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-6	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-75-1-7	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		



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PIPING WELDS							
Reference Drawing No: C-08							
1-RC-75-1-8	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-75-1-9	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-75-1-10	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-75-1-11	6" Pipe to Flange at Valve RC-V116	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-76-1-1	6" Pressurizer Safety Relief Nozzle to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-76-1-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-76-1-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-76-1-4	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: C-08							
1-RC-76-1-5	6" Elbow to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-76-1-6	6" Pipe to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-76-1-7	6" Pipe to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-76-1-8	6" Pipe to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-76-1-9	6" Pipe to Flange at Valve RC-V117	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Reference Drawing No: C-09							
1-RC-98-1-1	2" Loop Drain Nozzle to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-98-1-2	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-98-1-3	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-98-1-4	2" Pipe to Valve RC-V110	80A6472	N/A	B-J B9.21	PT		
1-RC-98-1-5	2" Valve RC-V110 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-98-1-6	2" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-10							
1-RC-94-1-1	2" Loop Drain Nozzle to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-94-1-2	2" Pipe to Elbow	80A6472	N/A	B-J	PT	B.921	
1-RC-94-1-3	2" Elbow to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-94-1-4	2" Pipe to Valve RC-V51	80A6472	N/A	B-J	PT	B9.21	
1-RC-94-1-5	2" Valve RC-V51 to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-94-1-6	2" Pipe to Flange	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No. C-11							
1-RC-93-1-1	2" Loop Drain Nozzle to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-93-1-2	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-93-1-3	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-93-1-4	2" Pipe To Valve RC-V17	80A6472	N/A	B-J B9.21	PT		
1-RC-93-1-5	2" Valve RC-V17 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-93-1-6	2" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-12							
1-RC-62-1-1	2" RDT Return Nozzle to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-2	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-3	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-4	2" Pipe to Valve RC-V98	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-5	2" Valve RC-V98 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-6	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-7	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-12							
1-RC-62-1-8	2" Pipe To Valve RC-V99	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-9	2" Valve RC-99 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-1-10	2" Pipe To Cold leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-62-3-1	2" Cold leg Manifold To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-3-2	2" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-62-3-3	2" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-3-4	2" Pipe To Valve RC-V102	80A6472	N/A	B-J B9.21	PT		

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PIPING WELDS Reference Drawing No: C-12							
1-RC-62-3-5	2" Valve RC-V102 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-62-3-6	2" Pipe To Tee	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-13							
1-RC-59-2-1	1" x 2" Reducer to Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-2	2" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-3	2" Pipe To Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-4	2" Tee to Reducer	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-5	2" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-6	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-7	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		

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PIPING WELDS Reference Drawing No: C-13							
1-RC-59-2-8	2" Pipe To Valve RC-V90	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-9	2" Valve RC-V90 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-10	2" Pipe To Valve RC-V91	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-11	2" Valve RC-V91 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-2-12	2" Pipe To Hot Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-59-10-1	2" Hot Leg Manifold to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-10-2	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-13							
1-RC-59-10-3	2" Elbow to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-10-4	2" Pipe To Reducer	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-1	2" x 3" Reducer to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-2	3" Pipe To Elbow	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-3	3" Elbow To Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-4	3" Pipe To Valve RC-V94	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-5	3" Valve RC-V94 To Pipe	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No: C-13							
1-RC-59-6-6	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-59-6-7	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-6-8	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-59-6-9	3" Tee To Pipe	80a6472	N/A	B-J B9.21	PT		
1-RC-59-6-10	3" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-59-6-11	3" Flange To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-59-6-12	3" Pipe to Valve RC-V97	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-13							
1-RC-59-6-13	3" Valve RC-V97 to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-59-6-14	3" Pipe To RDT Return Nozzle	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No: C-14							
1-RC-97-1-1	3" Loop Drain Nozzle to Elbow	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-2	3" Elbow To Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-3	3" Pipe To Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-4	3" Pipe To Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-5	3" Pipe To Tee	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-6	3" Tee To Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-97-1-7	3" Pipe To Valve RC-V81	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No: C-14							
1-RC-97-1-8	3" Valve RC-V81 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-9	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-10	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-11	3" Pipe To Valve LCV-460	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-12	3" Valve LCV-460 To Pipe	80A6472	B.A	B-J B9.21	PT		
1-RC-97-1-13	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-14	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-14							
1-RC-97-1-15	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-16	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-17	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-18	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-19	3" Pipe To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-20	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-21	3' Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-14							
1-RC-97-1-22	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-23	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-24	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-25	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-26	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-27	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-28	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-14							
1-RC-97-1-29	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-97-1-30	3" Pipe To Valve LCV-459	80A6472	N/A	B-J B9.21	PT		
1-RC-96-1-1	3" x 2" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-96-1-2	2" Pipe To Valve RC-V80	80A6472	N/A	B-J B9.21	PT		
1-RC-96-1-3	2" Valve RC-V80 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-96-1-4	2" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58-4-10	14" Pump RH-P-8A Suction Nozzle to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-9	14" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-8	14" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-7	14" Pipe To Flange	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-6	14" Flange To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-5	14" Pipe To Flange	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58-4-4	14" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-3	14" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-59-4-2	14" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-4-1	14" Pipe To Reducer	80A6472	N/A	C-F C5.11	PT		
1-RC-58-3-4	14"x16" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-3-3	16" Pipe To Tee	80A6472	N/A	C-F C5.11	PT		
1-RC-58-3-2	16" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: C-15							
1-RC-58-3-1	16" Pipe To Reducer	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-17	16"x12" Reducer To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-16	12" Pipe To Tee	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-15	12" Tee to Pipe	30A6472	N/A	C-F C5.11	PT		
1-RC-58-2-14	12" Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-13	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-12	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58-2-11	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-10	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-9	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-8	12" Elbow To Pipe	80A6472	NM/A	C-F C5.11	PT		
1-RC-58-2-7	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-6	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-5	12" Pipe to Penetration X-10 Process Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58-2-4	12" Penetration X-10 Process Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-3	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-2	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-2-1	12" Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-58-1-21	12" Pipe To Valve RC-V88	80A6472	N/A	C-F C5.11	PT		
1-RC-58-1-20	12" Valve RC-V88 To Pipe	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-58-1-19	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58-1-18	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-17	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-16	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-15	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-14	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-13	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-58-1-12	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS							
Reference Drawing No: C-15							
1-RC-58-1-11	12" Pipe To Valve RC-V87	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-10	12" Valve RC-87 To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-9	12" Pipe To Tee	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-8	12" Tee To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-7	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-6	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-58-1-5	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-15							
1-RC-58- 1-4	12" Elbow To Pipe	80A6462	SB-12- 140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-58- 1-3	12" Pipe To Elbow	80A6462	SB-12- 140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-58- 1-2	12" Elbow To Pipe	80A6462	SB-12- 140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-58- 1-1	12" Pipe to RHR Suction Nozzle	80A6462	SB-12- 140-SS	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-4-10	14" Pump RH-P-8A Suction Nozzle To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-9	14" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-8	14" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-7	14" Pipe To Flange	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-6	14" Flange To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-5	14" Pipe To Flange	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-4	14" Flange To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-3	14" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-4-2	14" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-4-1	14" Pipe To Reducer	80A6472	N/A	C-F C5.11	PT		
1-RC-13-3-4	14"x16" Reducer To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-3-3	16" Pipe To Tee	80A6472	N/A	C-F C5.11	PT		
1-RC-13-3-2	16" Tee To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-3-1	16" Pipe To Reducer	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-21	16"x12" Reducer To Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-2-20	12" Pipe To Tee	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-19	12" Tee To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-18	12" Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-17	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-16	12" Elbow To Pipe	30A6472	N/A	C-F C5.11	PT		
1-RC-13-2-15	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-14	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-2-13	12" Pipe To Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-12	12" Elbow To Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-11	12" Pipe To Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-10	12" Elbow To Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-9	12" Pipe To Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-8	12" Elbow To Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RC-13-2-7	12" Pipe To Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-2-6	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-5	12" Pipe to Penetration X-9 Process Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-4	12" Penetration X-9 Process Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-3	12" Pipe To Elbow	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-2	12" Elbow To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-2-1	12" Pipe To Pipe	80A6472	N/A	C-F C5.11	PT		
1-RC-13-1-21	12" Pipe To Valve RC-V23	80A6472	N/A	C-F C5.11	PT		
1-RC-13-1-20	12" Valve RC-V23 To Pipe	80A6462 80A6472	SB-12-140-SS N/A	B-J B9.11	UT PT		



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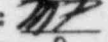
COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: C-16							
1-RC-13- 1-19	12" Pipe To Elbow	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-13- 1-18	12" Elbow To Pipe	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-13- 1-17	12" Pipe To Elbow	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-13- 1-16	12" Elbow To Pipe	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-13- 1-15	12" Pipe To Elbow	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-13- 1-14	12" Elbow To Pipe	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		
1-RC-14- 1-13	12" Pipe To Elbow	80A6462	SB-12- 140-SS	B-J	UT		
		80A6472	N/A		PT		



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PIPING WELDS							
Reference Drawing No: C-16							
1-RC-13-1-12	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-11	12" Pipe To Valve RC-V22	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-10	12" Valve RC-V22 To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-9	12" Pipe To Tee	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-8	12" Tee to Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-7	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RC-13-1-6	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: C-16							
1-RC-13-1-5	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-13-1-4	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-13-1-3	12" Pipe To Elbow	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-13-1-2	12" Elbow To Pipe	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-13-1-1	12" Pipe To RHR Suction Nozzle	80A6462	SB-12-140-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Reference Drawing No: C-17							
1-RC-15-2-1	1"x2" Reducer To Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-2	2" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-3	2" Pipe To Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-4	2" Tee To Reducer	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-5	2" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-6	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-7	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-15-2-8	2" Pipe To Valve RC-V3	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-9	2" Valve RC-V3 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-10	2" Pipe To Valve RC-V4	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-11	2" Valve RC-V4 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-2-12	2" Pipe To Hot Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-15-10-1	2" Hot Leg Manifold To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-10-2	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-15-10-3	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-10-4	2" Pipe To Reducer	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-1	2"x3" Reducer To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-2	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-3	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-4	3" Pipe To Valve RC-V6	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-5	3" Valve RC-V6 To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-15-6-6	3" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-7	3" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-8	3" Pipe To Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-9	3" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-10	3" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-11	3" Flange To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-12	3" Pipe To Valve RC-V8	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-15-6-13	3" Valve RC-V8 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-15-6-14	3" Pipe To R JT Return Nozzle	80A6472	N/A	B-J B9.21	PT		
1-RC-18-3-6	3"x2" Tee To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-3-5	2" Pipe To Valve RC-V13	80A6472	N/A	B-J B9.21	PT		
1-RC-18-3-4	2" Valve RC-V13 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-3-3	2" Pipe To Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-18-3-2	2" Flange To Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-18-3-1	2" Pipe To Cold Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-10	2" Cold Leg Manifold To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-9	2" Pipe To Valve RC-V10	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-8	2" Valve RC-V10 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-7	2" Pipe To Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-6	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-5	2" Pipe To Valve RC-V9	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-17							
1-RC-18-1-4	2" Valve RC-V9 To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-3	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-2	2" Elbow To Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-18-1-1	2" Pipe To RDT Bypass Nozzle	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS							
Reference Drawing No: C-18							
1-RC-21-1-1	4" Pressurizer Spray Nozzle to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-2	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-3	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-4	4" Pipe to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-5	4" Pipe to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-6	4" Pipe to Pipe	80A6462	SB-04	B-J	UT		
			160-S	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-7	4" Pipe to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS							
Reference Drawing No: C-18							
1-RC-21-1-8	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-9	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-10	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-11	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-12	4" Pipe to Valve PCV-455B	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-13	4" Valve PCV-455B to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-14	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-18							
1-RC-21-1-15	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-16	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-17	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-21-1-18	4" Pipe to Tee	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-19							
1-RC-30-2-1	2"x2" Reducer to Tee	80A6472	N/A	B-J	PT	B9.21	
1-RC-30-2-2	2" Tee to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-3-2-3	2" Pipe to Tee	80A6472	N/A	B-J	PT	B9.21	
1-RC-30-2-4	2" Tee to Reducer	80A6472	N/A	B-J	PT	B9.21	
1-RC-30-2-5	2" Tee to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-30-2-6	2" Pipe to Elbow	80A6472	N/A	B-J	PT	B9.21	
1-RC-30-2-7	2" Elbow to Pipe	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No: C-19							
1-RC-30-2-8	2" Pipe to Valve RC-V33	80A6472	N/A	B-J B9.21	PT		
1-RC-30-2-9	2" Valve RC-V33 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-2-10	2" Pipe to Valve RC-V34	806472	N/A	B-J B9.21	PT		
1-RC-30-2-11	2" Valve RC-V34 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-2-12	2" Pipe to Hot Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-30-10-1	2" Hot Leg Manifold to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-10-2	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-19							
1-RC-30-10-3	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-10-4	2" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-1	2"x3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-2	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-3	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-4	3" Pipe to Valve RC-V37	80A6472	N/A	B-J B9.21	PT		
1-RC-3-6-5	3" Valve RC-V37 to Pipe	80A6472	N/A	B-J B9.21	PT		

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PIPING WELDS Reference Drawing No: C-19							
1-RC-30-6-6	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-7	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-8	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-9	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-10	3" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-11	3" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-12	3" Pipe to Valve RC-V40	80A6472	N/A	B-J B9.21	PT		

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PIPING WELDS Reference Drawing No: C-19							
1-RC-30-6-13	3" Valve RC-V40 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-30-6-14	3" Pipe to RDT Return Nozzle	80A6472	N/A	B-J B9.21	PT		
1-RC-33-3-6	3" X 2" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-33-3-5	2" Pipe to Valve RC-V41	80A6472	N/A	B-J B9.21	PT		
1-RC-33-3-4	2" Valve RC-V41 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-33-3-3	2" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-33-3-2	2" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		



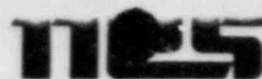
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PIPING WELDS Reference Drawing No: C-19							
1-RC-35-3-1	2" Pipe to Cold Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-35-1-10	2" Cold Leg Manifold to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-33-1-9	2" Pipe to Valve RC-V44	80A6472	N/A	B-J B9.21	PT		
1-RC-33-1-8	2" Valve RC-V44 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-33-1-7	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-33-1-6	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-33-1-5	2" Pipe to Valve RC-V45	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-19							
1-RC-33-1-4	2" Valve RC-V45 to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-33-1-3	2" Pipe to Elbow	80A6472	N/A	B-J	PT	B9.21	
1-RC-33-1-2	2" Elbow to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-33-1-1	2" Pipe to RDT Bypass Nozzle	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Reference Drawing No: C-20							
1-RC-44-2-1	1" X 2" Reducer to Tee	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-2	2" Tee to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-3	2" Pipe To Tee	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-4	2" Tee to Reducer	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-5	2" Tee to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-6	2" Pipe to Elbow	80A6472	N/A	B-J	PT	B9.21	
1-RC-44-2-7	2" Elbow to Pipe	80A6472	N/A	B-J	PT	B9.21	

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PIPING WELDS							
Reference Drawing No: C-20							
1-RC-44-2-8	2" Pipe to Valve RC-V60	80A6472	N/A	B-J B9.21	PT		
1-RC-44-2-9	2" Valve RC-V60 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-2-10	2" Pipe to Valve RC-V61	80A6472	N/A	B-J B9.21	PT		
1-RC-44-2-11	2" Valve RC-V61 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-2-12	2" Pipe to Hot Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-44-10-1	2" Hot Leg Manifold to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-10-2	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-20							
1-RC-44-10-3	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-10-4	2" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-1	2" X 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-2	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-3	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-4	3" Pipe to Valve RC-V64	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-5	3" Valve RC-V64 to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-20							
1-RC-44-6-6	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-7	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-8	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-9	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-10	3" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-11	3" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-12	3" Pipe to Valve RC-V67	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-20							
1-RC-44-6-13	3" Valve RC-V67 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-44-6-14	3" Pipe to RDT Return Nozzle	80A6472	N/A	B-J B9.21	PT		
1-RC-45-3-6	3" X 2" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-3-5	2" Pipe to Valve RC-V76	80A6472	N/A	B-J B9.21	PT		
1-RC-45-3-4	2" Valve RC-V76 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-3-3	2" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-RC-45-3-2	2" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-20							
1-RC-45-3-1	2" Pipe to Cold Leg Manifold	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-10	2" Cold Leg Manifold to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-9	2" Pipe to Valve RC-V73	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-8	2" Valve RC-V73 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-7	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-6	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-5	2" Pipe to Valve RC-V72	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: C-20							
1-RC-45-1-4	2" Valve RC-V72 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-3	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-2	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-RC-45-1-1	2" Pipe to RDT Bypass Nozzle	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS							
Reference Drawing No: C-21							
1-RC-48-1-1	4" Pressurizer Spray Nozzle to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-2	4" Pipe to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-3	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-4	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-5	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-6	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-7	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-21							
1-RC-48-1-8	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-9	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-10	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-11	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-12	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-13	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-14	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS							
Reference Drawing No: C-21							
1-RC-48-1-15	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-16	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-17	4" Pipe to Valve PCV-455A	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-18	4" Valve PCV-455A to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-19	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-20	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-21	4" Pipe to Elbow	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-21							
1-RC-48-1-22	4" Elbow to Pipe	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-1-23	4" Pipe to Reducer	80A6462	SB-04	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-1	4" x 6" Reducer to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-2	6" Pipe to Tee	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-3	6" Tee to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-4	6" Pipe to Elbow	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-5	6" Elbow to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: C-21							
1-RC-48-2-6	6" Pipe to Elbow	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-7	6" Elbow to Pipe	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-8	6" Pipe to Elbow	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-9	6" Elbow to Pipe	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-10	6" Pipe to Elbow	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-11	6" Elbow to Pipe	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RC-48-2-12	6" Pipe to Elbow	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Reference Drawing No: C-21							
1-RC-48-2-13	6" Elbow to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-14	6" Pipe to Elbow	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-15	6" Elbow to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-16	6" Pipe to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-17	6" Pipe to Elbow	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-18	6" Elbow to Pipe	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		
1-RC-48-2-19	6" Pipe to Elbow	80A6462	SB-06	B-J	UT		
			160-SS	B9.11			
		80A6472	N/A		PT		



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PIPING WELDS							
Reference Drawing No: C-21							
1-RC-48-2-20	6" Elbow to Pipe	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-2-21	6" Pipe to Reducer	80A6462	SB-06 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-1	6" X 4" Reducer to Pipe	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-2	4" Pipe to Elbow	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-3	4" Elbow to Pipe	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-4	4" Pipe to Elbow	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-5	4" Elbow to Pipe	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RC-48-3-6	4" Pipe to Pressurizer Spray Nozzle	80A6462	SB-04 160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		



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SUPPORT EXAMINATION Reference Drawing No: C-06							
1-RC-49-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-49-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3	B11.10 VT-4		
1-RC-49-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3	B11.10 VT-4		



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SUPPORT EXAMINATION Reference Drawing No: C-07							
1-RC-80-SG-02	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-80-SG-03	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-80-SG-05	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-80-SG-06	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		

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SUPPORT EXAMINATION Reference Drawing No: C-08							
1-RC-74-A-01	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.30	
1-RC-75-A-01	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.30	
1-RC-76-A-01	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.30	



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SUPPORT EXAMINATION Reference Drawing No: C-09, C-10, C-11							
1-RC-98-SV-1	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-94-SV-1	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-93-SV-1	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-93-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATION Reference Drawing No: C-12							
1-RC-62-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RC-62-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		
				B11.10	VT-4		
1-RC-62-RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		
				B11.10	VT-4		
1-RC-62-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RC-62-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		
				B11.10	VT-4		
1-RC-62-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RC-62-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			



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SUPPORT EXAMINATION Reference Drawing No: C-13							
1-RC-59-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-59-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-59-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-59-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-59-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-59-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-59-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			



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SUPPORT EXAMINATION Reference Drawing No: C-13							
1-RC-59- RG-8	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-59- RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-59- RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-59- SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-59- SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-59- SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-59- RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	

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SUPPORT EXAMINATION Reference Drawing No: C-13							
1-RC-59- RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		



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SUPPORT EXAMINATION Reference Drawing No: C-14							
1-RC-97-RM-22	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-97-RM-23	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-97-SV-1	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-97-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-97-RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-97-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-97-A-7	Anchor	80A6474	N/A	B-K-2 VT-3 B11.10			

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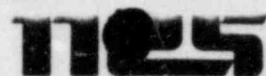
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATION Reference Drawing No: C-14							
1-RC-97-SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-11	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-15	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-97-SG-16	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATION Reference Drawing No: C-14							
1-RC-97- SG-17	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			



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SUPPORT EXAMINATION Reference Drawing No: C-15							
1-RC-58-SV-3	Pipe Support Variable Spring	80A6474	N/A	B-K-2 B9.11	VT-3 VT-4		
1-RC-58-RM-1	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B9.11	VT-3 VT-4		
1-RC-58-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 B9.11	VT-3		
1-RC-58-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2 B9.11	VT-3		
1-RC-58-SG-5	Pipe Support Guide	70A6474	N/A	B-K-2 B9.11	VT-3		
1-RC-58-RM-21	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B9.11	VT-3 VT-4		
1-RC-58-RM-6	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B9.11	VT-3 VT-4		



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SUPPORT EXAMINATION Reference Drawing No: C-15							
1-RC-58-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B9.11	
1-RC-58-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-58-SG-10	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-RC-58-SG-11	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-RC-58-SG-13	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-RC-58-SG-14	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-RC-58-SH-15	Pipe Support Strut	80A6474	N/A	C-E	VT-3	C3.50	



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SUPPORT EXAMINATION Reference Drawing No: C-15							
1-RC-58- RG-16	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-58- SG-17	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-58- RG-18	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-58- SG-19	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-58- SV-20	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



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SUPPORT EXAMINATION Reference Drawing No: C-16							
1-RC-13-SV-3	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-13-RM-1	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-13-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-13-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-13-RM-21	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-13-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-13-RM-6	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATION Reference Drawing No: C-16							
1-RC-13-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-13-SG-10	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50
1-RC-13-SG-11	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50
1-RC-13-SG-13	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50
1-RC-13-RG-14	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		C3.50
1-RC-13-SG-16	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50
1-RC-13-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		C3.50



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SUPPORT EXAMINATION Reference Drawing No: C-16							
1-RC-13- RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-13- SG-19	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RC-13- SV-20	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



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SUPPORT EXAMINATION Reference Drawing No: C-17							
1-RC-18-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-18-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-RC-18-RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-RC-18-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-18-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-RC-18-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-18-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-15-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-17							
1-RC-15-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-15-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-15-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-15-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-15-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-15-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-15-RG-8	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-15-RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATION Reference Drawing No: C-17							
1-RC-15- RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-RC-15- SG-12	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-RC-15- SG-13	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-RC-44- SG-14	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-RC-15- RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-RC-15- RG-11	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		



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SUPPORT EXAMINATION Reference Drawing No: C-18							
1-RC-21-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	



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SUPPORT EXAMINATION Reference Drawing No: C-18							
1-RC-21-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-SV-9	Pipe Support Variable Spring	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-RM-11	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-RM-12	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-21-RG-13	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21-RG-14	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-18							
1-RC-21- RG-15	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21- SG-16	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21- SG-17	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21- RG-18	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-21- A-19	Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-19							
1-RC-30-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-30-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-30-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-19							
1-RC-30-RG-8	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-30-RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-30-RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	



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SUPPORT EXAMINATION Reference Drawing No: C-19							
1-RC-30- RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-33- RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-33- RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-33- RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-33- SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-33- RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-33- SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-19							
I-RC-33-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		



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SUPPORT EXAMINATION Reference Drawing No: C-20							
1-RC-44-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-44-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-44-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3	B11.10 VT-4		
1-RC-44-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3	B11.10 VT-4		
1-RC-44-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-44-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		
1-RC-44-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3	B11.10		



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SUPPORT EXAMINATION Reference Drawing No: C-20							
1-RC-44- RG-8	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-44- RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		B11.10 VT-4
1-RC-44- RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-44- SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-44- SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-44- SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-RC-44- RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		B11.10 VT-4



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SUPPORT EXAMINATION Reference Drawing No: C-20							
1-RC-44-RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-45-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-45-RM-2	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-45-RM-4	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-45-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-45-RM-5	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RC-45-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-45-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATION Reference Drawing No: C-21							
1-RC-48-RM-1	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-RC-48-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-48-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-48-RG-4	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-48-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-48-RG-7	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-RC-48-RG-8	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 VT-3 B11.10			



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SUPPORT EXAMINATION Reference Drawing No: C-21							
1-RC-48-SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-48-SG-11	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-48-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-48-RG-16	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-48-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RC-48-SV-26	Pipe Support Variable Spring	80A6474	N/A	B-K-2	VT-3 VT-4	B11.10	
1-RC-48-RG-18	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	

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SUPPORT EXAMINATION Reference Drawing No: C-21							
1-RC-48- RG-19	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-RC-48- RG-20	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-RC-48- RG-21	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-RC-48- SG-22	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-RC-48- RG-23	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-RC-48- RG-24	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		



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COMPONENT EXAMINATION Reference Drawing No: C-07, C-08							
1-RC-80-2-V122-B	Valve RC-V122 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-80-2-V124-B	Valve RC-V124 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-80-PCV-456A-B	Valve PCV-456A Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-80-6-PCV-456B-B	Valve PCV-456B Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-74-1-V115-B	Valve VRC-V115 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-75-1-V116-B	Valve RC-V116 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-76-1-V117-B	Valve RC-V117 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATION Reference Drawing No: C-09, C-10, C-11, C-12							
1-RC-98-1-V110-B	Valve RC-V110 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-94-1-V51-B	Valve RC-V51 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-93-1-V17-B	Valve RC-V17 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-62-1-V98-B	Valve RC-V98 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-62-3-V102-B	Valve RC-V102 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-62-1-V99-B	Valve RC-V99 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATION Reference Drawing No: C-13, C-14							
1-RC-59-6-V97-B	Valve RC-97 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-59-6-V94-B	Valve RC-V94 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-59-2-V91-B	Valve RC-V91 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-59-2-V90-B	Valve RC-V90 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-96-1-V80-B	Valve RC-V80 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-97-1-V81-B	Valve RC-V81 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-97-1-LCV-460-B	Valve LCV-460 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-97-1-LCV-459-B	Valve LCV-490 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATION Reference Drawing No: C-15, C-16, C-17							
1-RC-58-1-V87-B	Valve RC-V87 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-58-1-V88-B	Valve RC-V88 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-13-1-V22-B	Valve RC-V22 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-13-1-V23-B	Valve RC-V23 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-15-2-V3-B	Valve RC-V3 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-15-2-V4-B	Valve RC-V4 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATION Reference Drawing No: C-17, C-18							
1-RC-15-6-V6-B	Valve RC-V6 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-15-6-V8-B	Valve RC-V8 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-18-3-V13-B	Valve RC-V13 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-18-1-V10-B	Valve RC-V10 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-18-1-V9-B	Valve RC-V9 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-21-1-PCV-455B-B	Valve PCV-455B Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATION Reference Drawing No: C-19							
1-RC-30-2-V33-B	Valve RC-V33 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-30-2-V34-B	Valve RC-V34 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-30-6-V37-B	Valve RC-V37 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-30-6-V40-B	Valve RC-V40 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-33-1-V45-B	Valve RC-V45 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-33-1-V44-B	Valve RC-V44 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-33-3-V41-B	Valve RC-V41 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	

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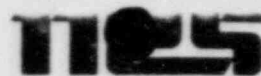
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COMPONENT EXAMINATION Reference Drawing No: C-20, C-21							
1-RC-44-6-V67-B	Valve RC-V67 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-44-6-V64-B	Valve RC-V64 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-44-2-V61-B	Valve RC-V61 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-44-2-V60-B	Valve RC-V60 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-45-3-V76-B	Valve RC-V76 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-45-1-V73-B	Valve RC-V72 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-45-1-V72-B	Valve RC-V72 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RC-48-1-PCV-455A-B	Valve PCV-455A Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



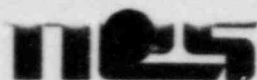
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COMPONENT EXAMINATION Reference Drawing No: C-08, C-16							
1-RC-13-1-V23-IS	12" Gate Valve RC-V23 Internal Surface	80A6474	N/A	B-M-2	VT-1 B12.40		
1-RC-74-1-V115-IS	6" Relief Valve RC-V115 Internal Surface	80A6474	N/A	B-M-2	VT-1 B12.40		



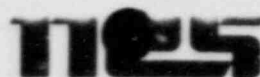
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COMPONENT EXAMINATION Reference Drawing No: C-09, C-13, C-17, C-19, C-20							
1-RC-59-6- FE-447-B	Flange FE-447 Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		
1-RC-15-6- FE-417-B	Flange FE-417 Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		
1-RC-30-6- FE-427-B	Flange FE-427 Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		
1-RC-44-6- FE-437-B	Flange FE-437 Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		
1-RC-98-1- 6-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		



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COMPONENT EXAMINATION Reference Drawing No: C-10, C-11, C-12, C-14, C-15, C-16							
1-RC-94-1-6-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-93-1-6-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-62-3-3-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-96-1-4-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-58-4-4-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-58-4-6-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-RC-13-4-4-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
COMPONENT EXAMINATION Reference Drawing No: C-16, C-17, C-19							
1-RC-13-4- 6-FE-B	Flange Bolting	80A6474	N/IA	B-G-2	VT-1 B7.50		
1-RC-18-3- 2-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		
1-RC-33-3- 1-FE-B	Flange Bolting	80A6474	N/A	B-G-2	VT-1 B7.50		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'A' Reference Drawing No: C-22, C-23							
1-RC-E11A-SEAM -1	Bottom Head to Tube Sheet Weld	80A6465	Later	B-B	UT B2.31		
1-RC-E11A-SEAM-2	Tube Sheet to Stub Barrel Weld	80A6465	Later	C-A	UT C1.10		
1-RC-E11A-SEAM-3	Stub Barrel to Shell Section 'A' Weld	80A6465	Later	C-A	UT C1.10		
1-RC-E11A-SEAM-5	Shell Section 'B' to Transition Cone Weld	80A6465	Later	C-A	UT C1.10		
1-RC-E11A-SEAM-6	Transition Cone to Shell Section 'C' Weld	80A6465	Later	C-A	UT C1.10		
1-RC-E11A-SEAM-8	Shell Section 'D' to Top Head Weld	80A6465	Later	C-A	UT C1.10		
1-RC-E-11A-2-A-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1 B7.30		



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STEAM GENERATOR 'A' Reference Drawing No: C-22, C-23							
1-RC-E-11A-2-B-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1		
				B7.30			
1-RC-E-11A-11-NZ	Feedwater Nozzle to Shell Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11A-11-IR	Feedwater Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11A-16-NZ	Steam Nozzle Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11A-16-IR	Steam Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11A-1A-IR	Primary Inlet Nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			
1-RC-E-11A-1B-IR	Primary Outlet Nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'B' Reference Drawing No: C-22, C-23							
1-RC-E-11B-SEAM-1	Bottom Head to Tube Sheet Weld	80A6465	Later	B-B	UT	B2.31	
1-RC-E-11B-SEAM-2	Tubesheet to Stub barrel weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11B-SEAM-3	Stub barrel to Shell Section 'A'	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11B-SEAM-5	Shell Section 'B' to Transition cone weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11B-SEAM-6	Transition Cone to Shell Section 'C' Weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11B-SEAM-8	Shell Section 'D' to Top head weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11B-2-A Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1	B7.30	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'B' Reference Drawing No: C-22, C-23							
1-RC-E-11B-2-B-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1		
				B7.30			
1-RC-E-11B-11-NZ	Feedwater Nozzle Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11B-11-IR	Feedwater Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11B-16-NZ	Steam Nozzle Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11B-16-IR	Steam Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11B-1A-IR	Primary Inlet Nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			
1-RC-E-11B-1B-IR	Primary Outlet Nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'C' Reference Drawing No: C-22, C-23							
1-RC-E-11C-SEAM-1	Bottom Head to Tubesheet weld	80A6465	Later	B-B	UT	B2.31	
1-RC-E-11C-SEAM-2	Tubesheet to Stub barrel weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11C-SEAM-3	Stub barrel to shell Section 'A' weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11C-SEAM-5	Shell Section 'B' to Transition cone weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11C-SEAM-6	Transition cone shell Section 'C' weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11C-SEAM-8	Shell Section 'D' to top head weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11C-2-A-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1	B7.30	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'C' Reference Drawing No: C-22, C-23							
1-RC-E-11C-2-B-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1		
				B7.30			
1-RC-E-11C-11-NZ	Feedwater Nozzle Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11C-11-IR	Feedwater Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11C-16-NZ	Steam Nozzle Weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11C-16-IR	Steam Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11C-1A-IR	Primary Inlet nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			
1-RC-E-11C-1B-IR	Primary Outlet nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			



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STEAM GENERATOR 'D' Reference Drawing No: C-22, C-23							
1-RC-E-11D-SEAM-1	Bottom head to Tubesheet weld	80A6465	Later	B-B	UT	B2.31	
1-RC-E-11D-SEAM-2	Tubesheet to Stub Barrel weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11D-SEAM-3	Stub barrel to Shell Section 'A'	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11D-SEAM-5	Shell Section 'B' to Transition cone weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11D-SEAM-6	Transition cone to Shell Section 'C' weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11D-SEAM-8	Shell Section 'D' to top head weld	80A6465	Later	C-A	UT	C1.10	
1-RC-E-11D-2-A-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1	B7.30	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
STEAM GENERATOR 'D' Reference Drawing No: C-22, C-23							
1-RC-E-11D-2-B-Bolt	Primary Manway Bolting	80A6474	N/A	B-G-2	VT-1		
				B7.30			
1-RC-E-11D-11-NZ	Feedwater Nozzle weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11D-11-IR	Feedwater nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11D-16-NZ	Steam Nozzle weld	80A6465	Later	C-B	UT		
		80A6472	N/A	C2.20	PT		
1-RC-E-11D-16-IR	Steam Nozzle Inner Radius	80A6467	Later	C-B	UT		
1-RC-E-11D-1A-IR	Primary Inlet nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			
1-RC-E-11D-1B-IR	Primary Outlet nozzle Inner Radius	80A6467	Later	B-D	UT		
				B3.60			



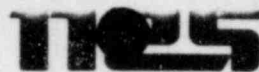
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PRESSURIZER Reference Drawing No: C-24, C-25							
1-RC-E-10-1	Bottom Head to Shell 'A' Circumferential Weld	80A6466	Later	B-B B2.11	UT		
1-RC-E-10-2	Shell 'A' to Shell 'B' Circumferential Weld	80A6466	Later	B-B B2.11	UT		
1-RC-E-10-3	Shell 'A' Longitudinal Seam	80A6466	Later	B-B B2.12	UT		
1-RC-E-10-4	Shell 'B' to Shell 'C' Circumferential Weld	80A6466	Later	B-B B2.11	UT		
1-RC-E-10-5	Shell 'B' Longitudinal Seam	80A6466	Later	B-B B2.12	UT		
1-RC-E-10-6	Shell 'C' Longitudinal Seam	80A6466	Later	B-B B2.12	UT		
1-RC-E-10-7	Shell 'C' to Shell 'D' Circumferential Weld	80A6466	Later	B-B B2.11	UT		



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PRESSURIZER Reference Drawing No: C-24, C-25							
1-RC-E-10-8	Shell 'D' Longitudinal Seam	80A6466	Later	B-B B2.12	UT		
1-RC-E-10-9	Shell 'D' to Top Head Circumferential Weld	80A6466	Later	B-B B2.11	UT		
1-RC-E-10-S-NZ	Surge Nozzle 'S' to Bottom Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-S-IR	Surge Nozzle 'S' Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-A-NZ	Safety Nozzle 'A' to Top Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-A-IR	Safety Nozzle 'A' Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-B-NZ	Safety Nozzle 'B' to Top Head Weld	80A6466	Later	B-D B3.30	UT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PRESSURIZER Reference Drawing No: C-24, C-25							
1-RC-E-10-B-IR	Safety Nozzle 'B' Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-C-NZ	Safety Nozzle 'C' to Top Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-C-IR	Safety Nozzle 'C' Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-D-NZ	Safety Nozzle 'E' to Top Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-D-IR	Safety Nozzle 'D' Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-R-NZ	Relief Nozzle 'R' to Top Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-R-IR	Relief Nozzle 'R' Inner Radius	80A6467	Later	B-D B3.40	UT		



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PRESSURIZER Reference Drawing No: C-24, C-25							
1-RC-E-10-SP-NZ	Spray Nozzle "SP" to Top Head Weld	80A6466	Later	B-D B3.30	UT		
1-RC-E-10-SP-IR	Spray Nozzle "SP" Inner Radius	80A6467	Later	B-D B3.40	UT		
1-RC-E-10-R-Bolt	Manway Bolting	80A6474	N/A	B-G-2 B7.20	VT-1		
1-RC-E-10-A-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-B-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-C-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-D-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PRESSURIZER Reference Drawing No: C-21, C-22							
1-RC-E-10-E-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-F-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-G-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-1		
1-RC-E-10-H-INS	Instrument Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-I-SAMP	Sampling Coupling	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-HTRS (1-78)	78 Nos Immersion Heater Welds	80A6474	N/A	B-E B4.20	VT-2		
1-RC-E-10-A-LUG	Seismic Lug Internally Welded	80A6472	N/A	B-H B8.20	PT		



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PRESSURIZER Reference Drawing No: C-21, C-22							
1-RC-E-10-B-LUG	Seismic Lug Internally Welded	80A6472	N/A	B-H B8.20	PT		
1-RC-E-10-C-LUG	Seismic Lug Internally Welded	80A6472	N/A	B-H B8.20	PT		
1-RC-E-10-D-LUG	Seismic Lug Internally Welded	80A6472	N/A	B-H B8.20	PT		
1-RC-E-10-SKIRT	Support Skirt to Pressurizer Weld	80A6472	N/A	B-H B8.20	PT		



NUCLEAR ENERGY SERVICES, INC.

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PSI PROGRAM PLAN:

RESIDUAL HEAT REMOVAL SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineer Dept Manager	Bruce B. Bernal	1/13/84
Program Standards Manager	L. Sage	1/16/84
Project Manager	Lawrence P. Bunnell	1/13/84
Quality Assurance Manager	T.A. Schneider for W.S.G.	1/18/84



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RESIDUAL HEAT REMOVAL SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 1 and Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISL. The Class 3 components, NES Document 80A8989 delineates PSI requirements for Class 3 components of this system.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Residual Heat Removal System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Residual Heat Removal System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

ASME Code Class	Description	Ref. P&ID	Basis For Exemption
1	All component connections, piping and associated valves of 1" nominal size and smaller	F-805008/6 & F-805010/5	Piping 1" nominal size and smaller exempted as per ASME Section XI Code IWB-1220(b) S 78 Addenda
2	All vent, drain, test, sample, fill, by-pass and instrument connections 4" nominal size or smaller	F-805008/6 & F-805010/5	All component connections, piping & associated valves, and vessels (and their supports) that are 4" nominal pipe size & smaller are exempted as per ASME Section XI, IWC-1220(d) S 75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Residual Heat Removal System.

TABLE - 2.3
SYSTEM CLASSIFICATION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	12" to 6" to 8" line from Reactor Coolant system upto check valve RH-V50.	F-805006/8 F-805010/5
1	12" to 6" to 8" line from Reactor Coolant system upto check valve RH-V51.	F-805003/6 F-805010/5
2	12" interconnector between the two RHR loops.	F-805008/6 F-805010/5
2	From Reactor Coolant valve 12" RC-V23 upto RHR valve 6" RH-V15 including RHR pump RH-P-8A and Heat Exchanger RH-E-9A.	F-805008/6 & F-805008/6
2	From Reactor Coolant valve 12" RC-V88 upto RHR valve 6" RH-V29 including RHR pump RH-P-8B and Heat Exchanger RH-E-9B	F-805006/6 & F-805008/6

2.4 CALIBRATION STANDARDS

Table 2.4 lists the Calibration Standards for Ultrasonic examinations scheduled for the Residual Heat Removal System. All calibration standards are to be retained on site. The General Reference Text discusses the basis for requirements of these Calibrations Standards.

TABLE - 2.4
Referenced Calibration Standards

<u>TITLE</u>	<u>SCHEDULE</u>	<u>MATERIAL</u>
SB-12-140-SS	SCH 140	SA 376 TP 316
SB-10-140-SS	SCH 140	SA 376 TP 316
SB-08-160-SS	SCH 160	SA 376 TP 316
SB-06-160-SS	SCH 160	SA 376 TP 316

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Residual Heat Removal System that are Class 1 and Class 2.

TABLE - 2.5
RHR System: Isometric Figures

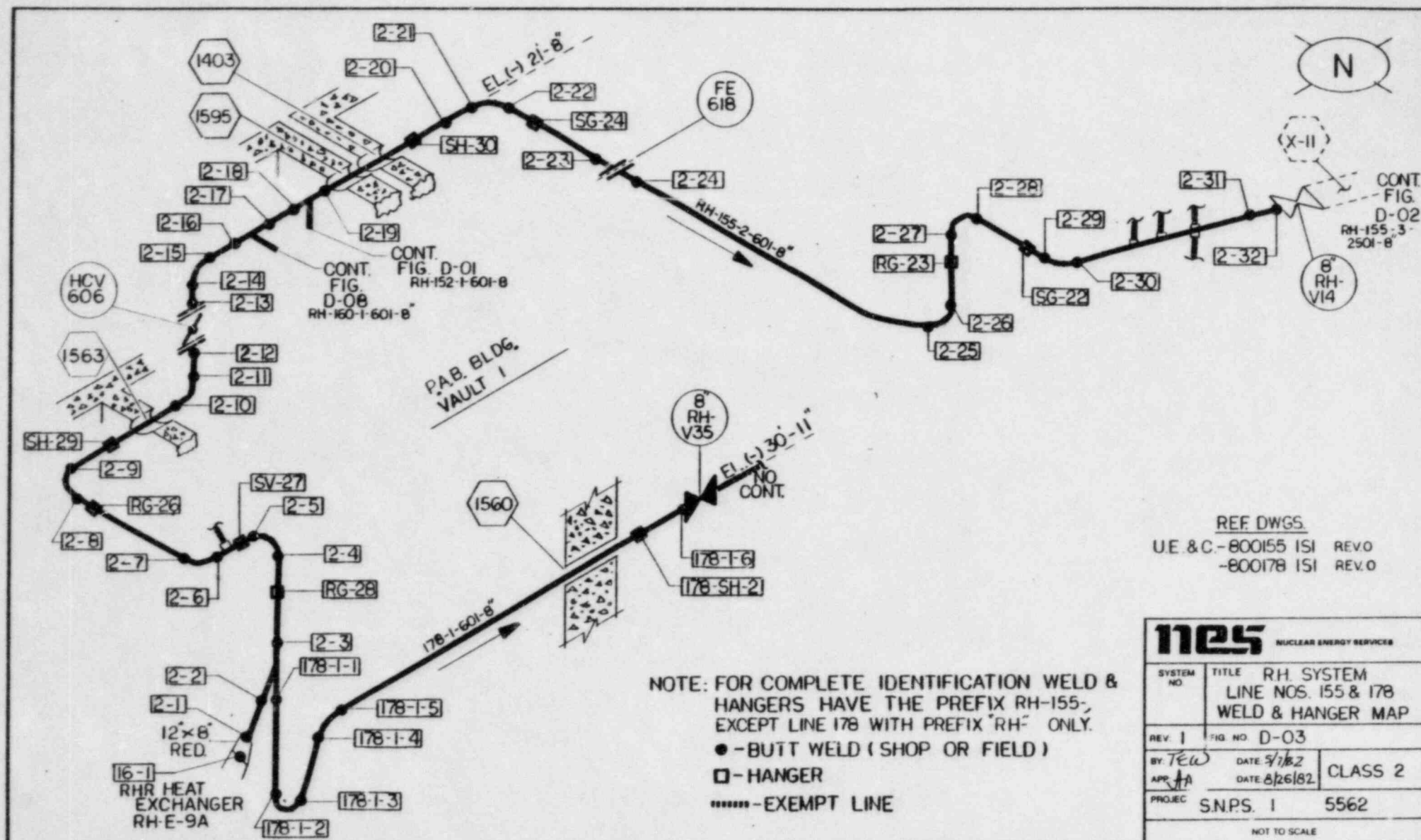
D-01	Rev. 1
D-02	Rev. 1
D-03	Rev. 1
D-04	Rev. 1
D-05	Rev. 1
D-06	Rev. 1
D-07	Rev. 1
D-08	Rev. 1
D-09	Rev. 1
D-10	Rev. 1

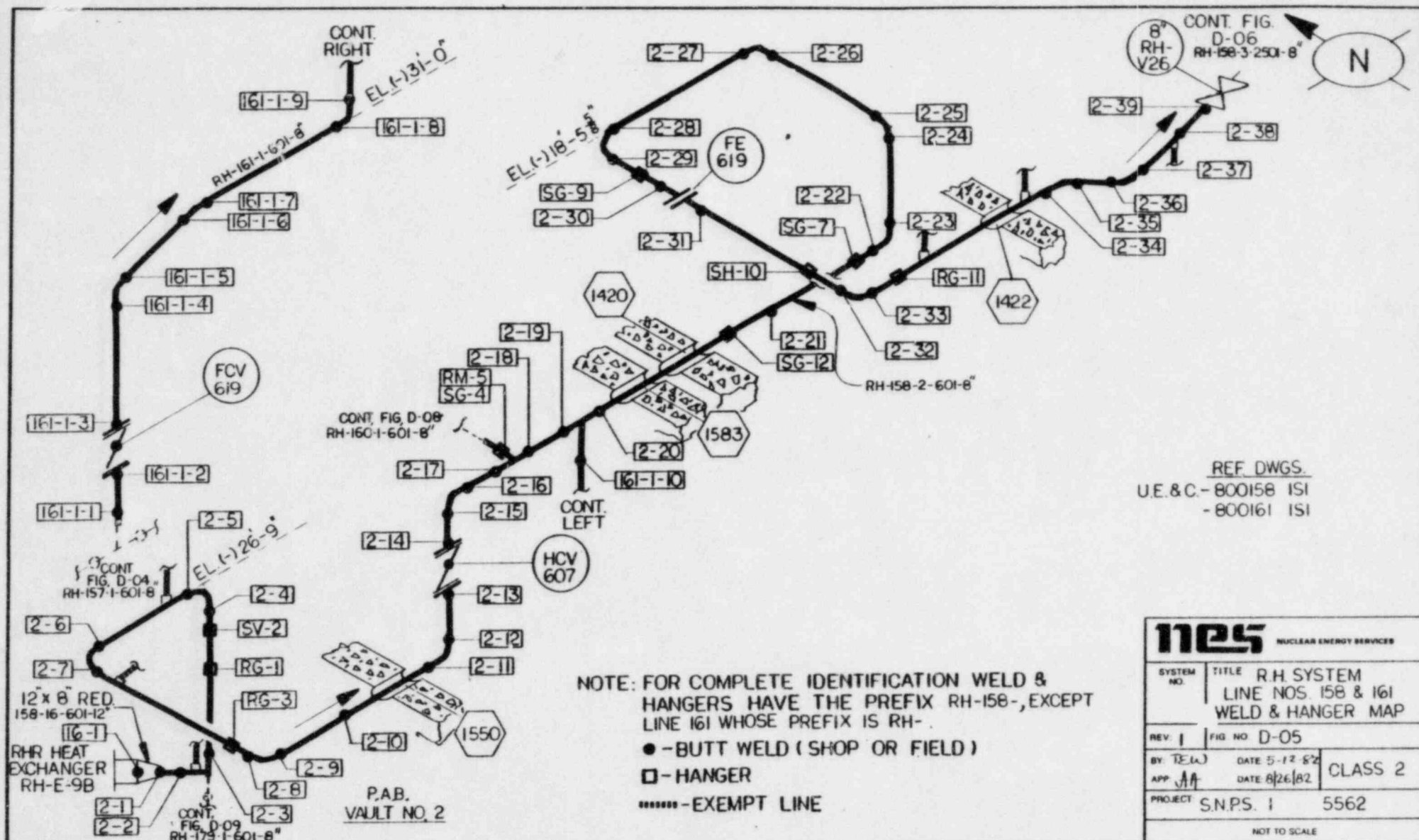
3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations for each system.







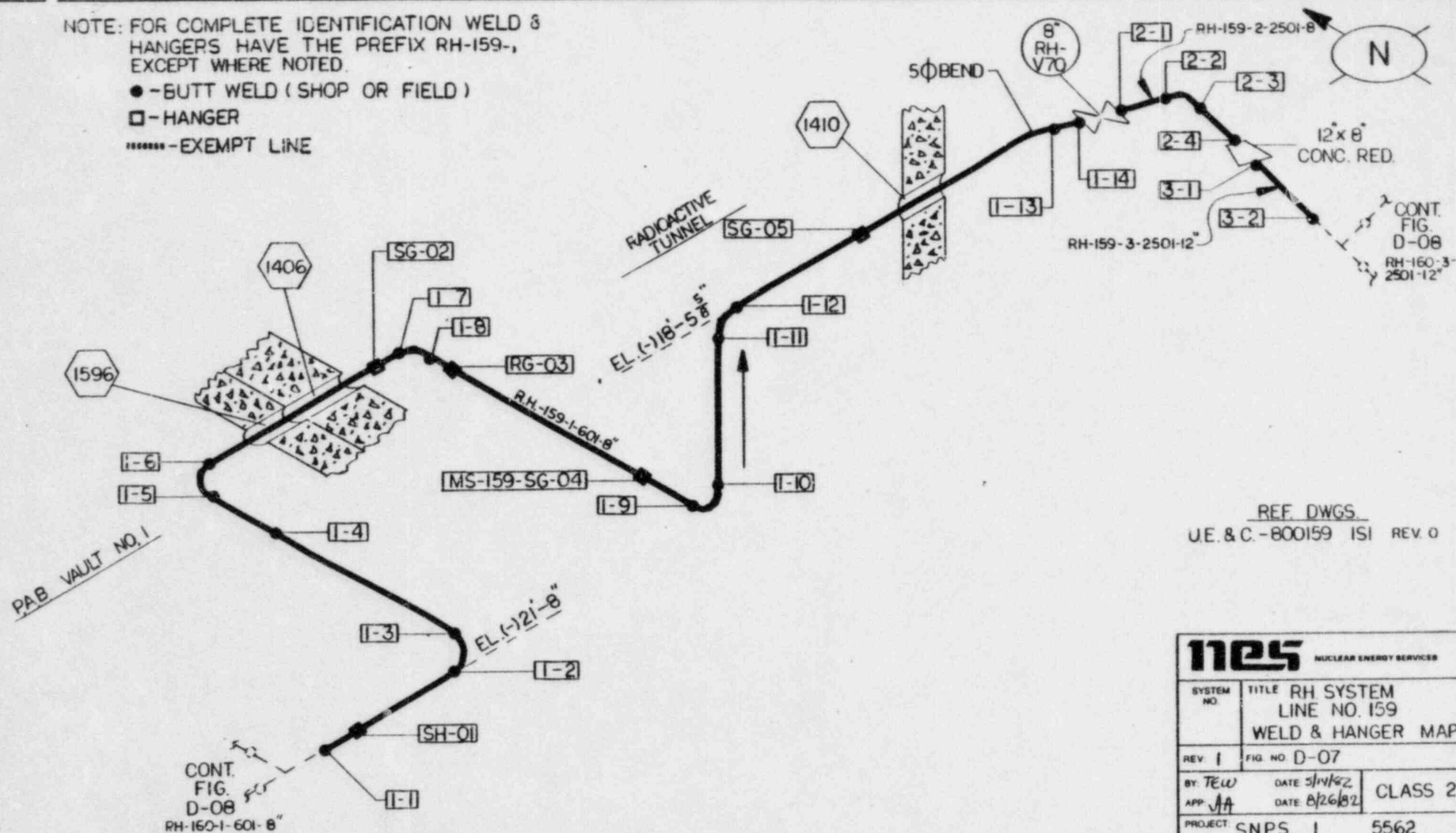
NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.H. SYSTEM LINE NOS. 158 & 161 WELD & HANGER MAP
REV. 1	FIG. NO. D-05
BY: TEW	DATE 5-12-82
APP: JH	DATE 8/26/82
PROJECT	S.N.P.S. 1 5562
CLASS 2	
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RH-159-, EXCEPT WHERE NOTED.

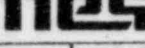
● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

*****-EXEMPT LINE



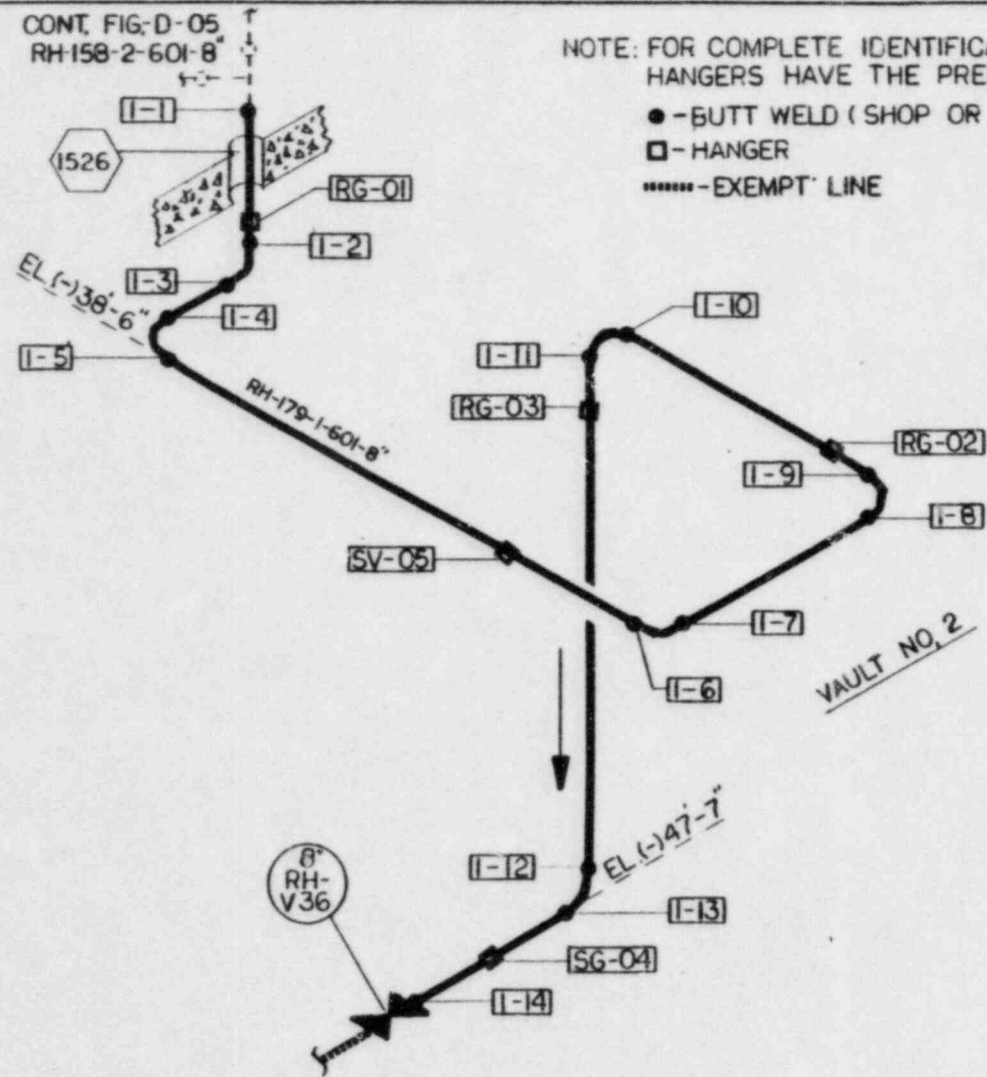
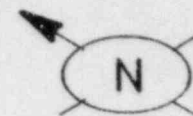
REF. DWGS.
U.E. & C. - 800159 ISI REV. 0

 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE RH SYSTEM LINE NO. 159 WELD & HANGER MAP
REV. 1	FIG. NO. D-07
BY: TEW APP: JAA	DATE 3/14/82 DATE 8/26/82
PROJECT	CLASS 2 S.N.P.S. I 5562
NOT TO SCALE	

CONT. FIG. D-05
RH-158-2-601-8"

NOTE: FOR COMPLETE IDENTIFICATION WELD &
HANGERS HAVE THE PREFIX RH-179-

- - BUTT WELD (SHOP OR FIELD)
- - HANGER
- EXEMPT LINE



REF. DWGS.
U.E. & C.-800179 ISI REV. 0

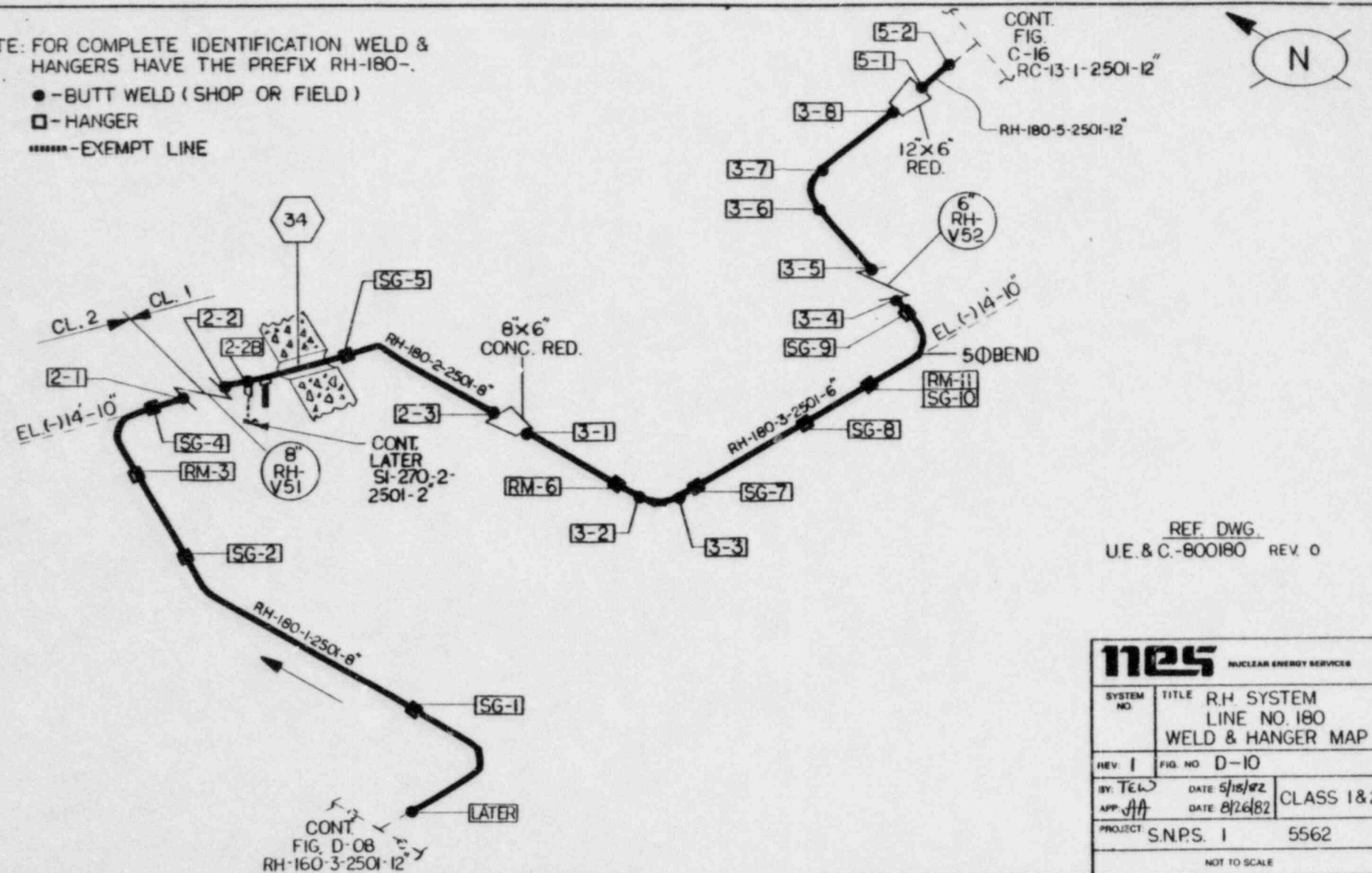
nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.H. SYSTEM LINE NO. 179 WELD & HANGER MAP
REV. 1	FIG. NO. D-09
BY: TEW APP: AA	DATE: 5/17/82 DATE: 8/26/82
PROJECT: SN.PS. 1	5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX RH-180-.

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE R.H. SYSTEM LINE NO. 180 WELD & HANGER MAP
REV. 1	FIG. NO. D-10
BY: TEL	DATE 5/15/82
APP. JAF	DATE 8/26/82
PROJECT	S.N.P.S. 1 5562
NOT TO SCALE	

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PROGRAM PLAN AND SCHEDULE

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-01							
1-RH-151-1-1	8" RHR Pump RH-P-8A Discharge Nozzle to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-2	8" Pipe to Valve RH-V4	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-3	8" Valve RH-V4 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: D-01							
1-RH-151-1-8	8" Pipe to Flange	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-9	8" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-10	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-11	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-12	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-13	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-14	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-01							
1-RH-151-1-15	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-16	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-17	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-18	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-19	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-20	8" Pipe to Valve RH-V9	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-151-1-21	8" Valve RH-V9 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-01							
1-RH-151-1-22	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-23	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-24	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-25	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-26	8" Pipe to 8"x12" Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-151-1-27	8"x12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-10-28	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-01							
1-RH-151-10-29	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-151-10-30	12" Pipe to RHR Heat Exchanger, RH-E-9A Nozzle	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-2	8" Pipe to Valve FCV-618	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-3	8" Valve FCV-618 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-01							
1-RH-152-1-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-152-1-10	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



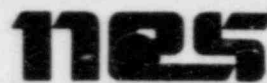
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-02							
1-RH-162-5-2	10"x10"x10" Tee to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-5-1	10" Pipe to Reducer	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-19	10"x6" Reducer to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-18	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-17	6" Elbow to Pipe	80A6462	SB-06-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-16	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-15	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-14	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS							
Reference Drawing No: D-02							
1-RH-162-2-13	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-12	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-11	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-10	6" Pipe to Valve RH-V61	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-9	6" Valve RH-V61 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-8	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-7	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-6	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: D-02							
1-RH-162-2-5	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-4	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-2B	6" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
1-RH-162-2-2	6" Pipe to Valve RH-V31	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-162-2-1	6" Valve RH-V31 to Pipe	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-162-1-1	6" Pipe to Reducer	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-12	6"x8" Reducer to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS Reference Drawing No: D-02							
1-RH-155-3-11	8" Pipe to Tee	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-13	8"x8"x8" Tee to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-14	8" Pipe to Reducer	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-4-1	8"x6" Reducer to Pipe	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-5-1	6" Pipe to Valve RH-V15	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-5-2	6" Valve RH-V15 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-155-5-2B	6" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
1-RH-155-5-3	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: D-02							
1-RH-155-5-4	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-5	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-6	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-7	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-8	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-9	6" Pipe to Valve RH-V59	80A6462	SBY-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-10	6" Valve RH-V59 to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-11	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK* (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-02							
1-RH-155-5-12	6" Elbow to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-13	6" Pipe to Elbow	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-14	6" Elbow to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-15	6" Pipe to Elbow	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-16	6" Elbow to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-17	6" Pipe to Elbow	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-18	6" Elbow to Pipe	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-155-5-19	6" Pipe to Reducer	80A6462	SB-06- 160-SS	B-J B9.11	UT		
		80A6472	N/A				

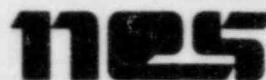
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-02							
1-RH-155-17-1	6"x10" Reducer to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-155-17-2	10" Pipe to Tee	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-155-3-10	8"x8"x8" Tee to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-9	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-8	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-7	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-6	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-5	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS Reference Drawing No: D-02							
1-RH-155-3-4	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-3	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-2	8" Pipe to Penetration X-11 Process Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-155-3-1	8" Penetration X-11 Process Pipe to Valve RH-V14	80A6462	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-03							
1-RH-155-2-32	8" Valve RH-V14 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-31	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-30	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-29	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-28	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-27	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-26	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-03							
1-RH-155-2-25	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-24	8" Pipe to Flange	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-23	8" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-22	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-21	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-20	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-19	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-03							
1-RH-155-2-18	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-17	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-16	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-15	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-14	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-13	8" Pipe to Flange at Valve HCV-606	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-12	8" Flange at Valve HCV-606 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: D-03							
1-RH-155-2-11	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-10	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-9	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-8	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-7	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-6	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-155-2-5	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		

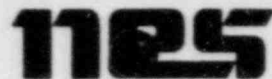
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PIPING WELDS Reference Drawing No: D-03							
1-RH-155-2-4	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-3	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-2	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-2-1	8" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-155-16-1	8"x12" Reducer to RHR Heat Exchanger Nozzle	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-178-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-178-1-2	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: D-03							
I-RH-178-1-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
I-RH-178-1-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
I-RH-178-1-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
I-RH-178-1-6	8" Pipe to Valve RH-V35	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-04							
1-RH-157-10-30	12" RHR Heat Exchanger Nozzle to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-10-29	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-10-28	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-10-27	12" Pipe to Reducing Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-1-26	12"X8" Reducing Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-1-25	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-1-24	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-157-1-23	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			

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PIPING WELDS Reference Drawing No: D-04							
1-RH-157-1-22	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-21	8" Pipe to Valve RH-V45	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-20	8" Valve RH-V45 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-19	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-18	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-17	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-16	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-15	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS							
Reference Drawing No: D-04							
1-RH-157-1-14	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-13	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-12	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-11	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-10	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-9	8" Pipe to Flange	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-8	8" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-7	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-04							
1-RH-157-1-6	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-5	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-4	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-3	8" Pipe to Valve RH-V40	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-2	8" Valve RH-V40 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-157-1-1	8" Pipe to Discharge RHR Pump RH-P-8B	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-05							
1-RH-161-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-2	8" Pipe to Flange at Valve FCV-619	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-3	8" Flange at Valve FCV-619 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-4	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-5	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-6	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-161-1-7	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: D-05							
1-RH-161-1-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-161-1-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-161-1-10	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-20	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-21	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-22	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-23	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

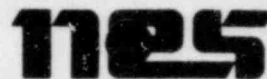
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PIPING WELDS Reference Drawing No: D-05							
1-RH-158-2-24	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-25	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-26	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-27	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-28	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-29	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-30	8" Pipe to Flange	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-05							
1-RH-158-2-31	8" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-32	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-33	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-34	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-35	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-36	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-37	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-05							
1-RH-158-2-38	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-39	8" Pipe to Valve RH-V26	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-19	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-18	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-17	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-16	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-15	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-05							
1-RH-158-2-14	8" Pipe to Flange at Valve HCV-607	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-13	8" Flange at Valve HCV-607 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-12	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-11	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-10	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-9	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-8	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-05							
1-RH-158-2-7	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-6	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-5	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-4	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-3	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-2	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-158-2-1	8" Pipe to Reducer	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: D-05							
1-RH-158-16-1	12"x8" Reducer to RHR Heat Exchanger Nozzle	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-06							
1-RH-158-3-1	8" Valve RH-V26 to Penetration X-12 Process Pipe	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-2	8" Penetration X-12 Process Pipe to Pipe	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-3	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-4	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-5	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-6	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT
1-RH-158-3-7	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				PT

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PIPING WELDS Reference Drawing No: D-06							
1-RH-158-3-8	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-9	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-10	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-11	8" Pipe to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-12	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-13	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-158-3-14	8" Pipe to Tee	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		

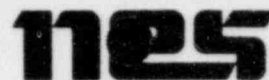
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PIPING WELDS							
Reference Drawing No: D-06							
1-RH-158-3-15	8"x8"x8" Tee to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-158-3-16	8" Pipe to Reducer	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-158-4-1	8"x6" Reducer to Pipe	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-158-5-1	6" Pipe to Valve RH-V29	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-158-5-2	6" Valve RH-V29 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		
1-RH-158-5-1B	6" Pipe to 2" Branch Connection	80A6472	N/A	B-J B9.32	PT		
1-RH-158-5-3	6" Pipe to Valve RH-V63	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: D-06							
1-RH-158-5-4	6" Valve RH-V63 to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-5	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-6	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-7	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-8	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-9	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-10	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Reference Drawing No: D-06							
1-RH-158-5-11	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-12	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-13	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-14	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-15	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-16	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-158-5-17	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		

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PIPING WELDS Reference Drawing No: D-06							
1-RH-158-5-18	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-5-19	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-17-1	6"x10" Reducer to Pipe	80A6462	SB-10-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-158-17-2	10" Pipe to Tee	80A6462	SB-10-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-RH-163-1-1	8"x8"x8" Tee to Pipe	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				
1-RH-163-1-2	8" Pipe to Reducer	80A6462	SB-08-160-SS	C-F C5.21	UT		
		80A6472	N/A				
1-RH-163-5-1	8"x6" Reducer to Pipe	80A6462	SB-06-160-SS	C-F C5.21	UT		
		80A6472	N/A				

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PIPING WELDS Reference Drawing No: D-06							
1-RH-163-5-2	6" Pipe to Pipe	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-163-2-1	6" Pipe to Valve RH-V30	80A6462	SB-06-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-163-2-2	6" Valve RH-V30 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
LATER	6" Pipe to 2" Branch Connection	80A6472	N/A	B-J	PT		
				B9.32			
1-RH-163-2-3	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-4	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-5	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



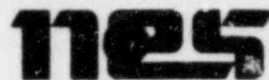
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PIPING WELDS							
Reference Drawing No: D-06							
1-RH-163-2-6	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-7	6" Pipe to Elbow	80A6462	SB-06-160-SS	-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-8	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-9	6" Pipe to Valve RH-V65	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-10	6" Valve RH-V65 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-11	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-163-2-12	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: D-06							
1-RH-163-2-13	6" Pipe to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-14	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-15	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-16	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-17	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-18	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-2-19	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS Reference Drawing No: D-06							
1-RH-163-2-20	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-4-1	6"x10" Reducer to Pipe	80A6462	SB-10-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		
1-RH-163-4-2	10" Pipe to Tee	80A6462	SB-10-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		

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PIPING WELDS Reference Drawing No: D-07							
1-RH-159-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-4	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-5	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-6	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-7	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-07							
1-RH-159-1-8	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-9	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-10	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-11	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-12	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-13	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-159-1-14	8" Pipe to Valve RH-V70	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS							
Reference Drawing No: D-07							
1-RH-159-2-1	8" Valve RH-V70 to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-159-2-2	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-159-2-3	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-159-2-4	8" Pipe to Reducer	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-159-3-1	8"x12" Reducer to Pipe	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A		PT		
1-RH-159-3-2	12" Pipe to Tee	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A		PT		

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PIPING WELDS							
Reference Drawing No: D-08							
1-RH-160-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-2	8" Pipe to Valve RH-V22	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-3	8" Valve RH-V22 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-1-8	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-9	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-10	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-11	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-12	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-13	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-RH-160-1-14	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			

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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-1-15	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-16	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-17	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-18	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-19	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-20	8" Pipe to Valve RH-V21	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-21	8" Valve RH-V21 to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-1-22	8" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-23	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-24	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-25	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-26	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-27	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-28	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		

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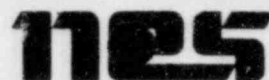
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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-1-29	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-30	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-31	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-32	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-33	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-34	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-160-1-35	8" Pipe to Valve RH-V32	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-2-1	8" Valve RH-V32 to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-2-2	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-2-3	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-2-4	8" Pipe to Reducer	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-1	8"x12" Reducer to Pipe	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-2	12" Pipe to Tee	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-3	12" Tee to Penetration X-13 Process Pipe	80A6462	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-3-4	12" Penetration X-13 Process Pipe to Elbow	80A6462	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-5	12" Elbow to Pipe	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-6	12" Pipe to Elbow	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-7	12" Elbow to Pipe	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-8	12" Pipe to Tee	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-9	12" Tee to Pipe	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-3-10	12" Pipe to Reducer	80A6462	SB-12-140-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-4-1	12"x8" Reducer to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-4-2	8" Pipe to Elbow	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-4-3	8" Elbow to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-5-1	8" Pipe to Valve RH-V50	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-160-5-2	8" Valve RH-V50 to Pipe	80A6462	SB-08-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-5-3	8" Pipe to Reducer	80A6462	SB-08-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-1	8"x6" Reducer to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		

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PIPING WELDS							
Reference Drawing No: D-08							
1-RH-160-6-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-4	6" Pipe to Valve RH-V53	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-5	6" Valve RH-V53 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-6	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-7	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-6-8	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		

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PIPING WELDS Reference Drawing No: D-08							
1-RH-160-17-1	6"x12" Reducer to Pipe	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-160-17-2	12" Pipe to Tee	80A6462	SB-12-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		

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PIPING WELDS Reference Drawing No: D-09							
1-RH-179-1-1	8"x8"x8" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Reference Drawing No: D-09							
1-RH-179-1-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-10	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-11	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-12	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-13	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-RH-179-1-14	8" Pipe to Valve RH-V36	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS							
Reference Drawing No: D-10							
LATER	8" Tee to Pipe	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-180-2-1	8" Pipe to Valve RH-V51	80A6462	SB-08-160-SS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-RH-180-2-2	8" Valve RH-V51 to Pipe	80A6462	SB-08-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-180-2-3	8" Pipe to Reducer	80A6462	SB-08-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-180-3-1	8"x6" Reducer to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-180-3-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-RH-180-3-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Reference Drawing No: D-10							
1-RH-180-3-4	6" Pipe to Valve RH-V52	80A6462	SB-06-160-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-3-5	6" Valve RH-V52 to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-3-6	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-3-7	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-3-8	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-5-1	6"x12" Reducer to Pipe	80A6462	SB-12-140-SS	B-J B9.11	UT PT		
		80A6472	N/A				
1-RH-180-5-2	12" Pipe to Tee	80A6462	SB-12-140-SS	B-J B9.11	UT PT		
		80A6472	N/A				

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SUPPORT EXAMINATIONS Reference Drawing No: D-01							
1-RH-151-SH-1	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-SH-2	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-SG-3	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-SH-5	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-RG-7	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-SG-8	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		

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SUPPORT EXAMINATIONS Reference Drawing No: D-01							
1-RH-151-SH-9	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-151-SG-12	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-RG-13	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-151-SV-14	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



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SUPPORT EXAMINATIONS Reference Drawing No: D-02							
1-RH-155-RM-31	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B10.10	VT-3 VT-4		
1-RH-155-SG-3	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-155-SG-4	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-155-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B10.10	VT-3 VT-4		
1-RH-155-SG-6	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-155-SG-8	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-155-SG-9	Pipe Support, Guide	80A6474	N/A	C-E C3.5G	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-02							
1-RH-155-A-12	Pipe Support, Anchor	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SG-13	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SG-15	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SG-16	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SG-18	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-RM-17	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-155-SG-19	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		



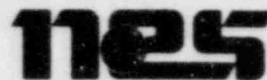
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SUPPORT EXAMINATIONS Reference Drawing No: D-02							
1-RH-155-SV-20	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-162-SG-1	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-162-SG-2	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-162-SG-4	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-162-RM-5	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B10.10	VT-3 VT-4		
1-RH-162-SG-7	Pipe Support, Guide	80A6474	N/A	B-K-2 B10.10	VT-3		
1-RH-162-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B10.10	VT-3 VT-4		



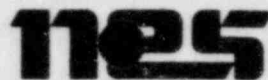
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-03							
1-RH-155-SG-22	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-RG-23	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SG-24	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SH-30	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SH-29	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-RG-26	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-SV-27	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-03							
1-RH-155-RG-28	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-178-SH-2	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-04							
1-RH-157-SV-16	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-157-RG-11	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-157-SG-10	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-RG-9	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-RG-8	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SH-7	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SG-6	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-04							
1-RH-157-RG-5	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-RG-4	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SH-17	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-RG-3	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SG-2A	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SH-2B	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-157-SH-1	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-05							
1-RH-158-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SV-2	Pipe Support Variable, Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-158-RG-3	Pipe Restraint Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SG-4	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-RM-5	Pipe Restraint Seismic, Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-158-SG-12	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SG-7	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-05							
1-RH-158-SG-9	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SH-10	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



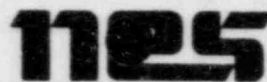
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SUPPORT EXAMINATIONS Reference Drawing No: D-06							
1-RH-158-SV-14	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-158-SG-15	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SG-16	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-RM-18	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-158-SG-17	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-SG-19	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-158-A-20	Pipe Support, Anchor	80A6474	N/A	C-E C3.50	VT-3		



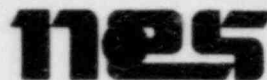
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-06							
1-RH-158-SG-23	Pipe Support, Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-RH-158-SG-24	Pipe Support, Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-RH-158-SG-25	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RH-158-SG-26	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RH-158-SG-28	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RH-158-SG-30	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-RH-158-RM-31	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		
				B11.10	VT-4		



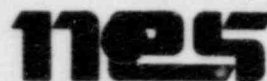
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SUPPORT EXAMINATIONS Reference Drawing No: D-06							
1-RH-158-SG-32	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-158-SG-33	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-158-RM-35	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RH-163-SG-1	Pipe Support, Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-RH-163-SH-2	Pipe Support, Strut	80A6474	N/A	C-E	VT-3	C3.50	
1-RH-163-SG-3	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-163-SG-5	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



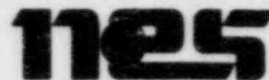
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-06							
1-RH-163-SG-7	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-158-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3 VT-4	B11.10	
1-RH-163-SG-9	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-163-SG-10	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-163-RM-12	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3 VT-4	B11.10	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-07							
1-RH-159-SH-01	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-159-SG-02	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-159-RG-03	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-159-SG-04	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-159-SG-05	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		

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SUPPORT EXAMINATIONS Reference Drawing No: D-08							
1-RH-155-SG-25	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-155-RM-25A	Pipe Restraint Seismic, Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-160-SG-13	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SG-14	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SH-21	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SH-16	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SG-18	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-08							
1-RH-160-RG-23	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SH-19	Pipe Support, Strut	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SG-20	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-RG-2	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SG-3	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-SG-5	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-160-RM-6	Pipe Restraint Seismic, Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



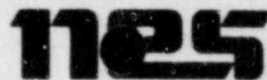
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: D-08							
1-RH-160-SG-7	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-160-RM-8	Pipe Restraint Seismic, Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-RH-160-SG-9	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-160-SG-12	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-160-SG-10	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-160-RM-24	Pipe Restraint Seismic, Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4



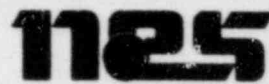
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SUPPORT EXAMINATIONS Reference Drawing No: D-09							
1-RH-179-RG-01	Pipe Seismic, Restraint	80A6474	N/A	C-E C3.50	VT-3		
1-RH-179-SV-05	Pipe Support, Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-179-RG-02	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-179-RG-03	Pipe Restraint Seismic, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-179-SG-04	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-10							
1-RH-180-SG-1	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-180-SG-2	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-180-RM-3	Pipe Restraint Seismic, Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-RH-180-SG-4	Pipe Support, Guide	80A6474	N/A	C-E C3.50	VT-3		
1-RH-180-SG-5	Pipe Support, Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-RH-180-RM-6	Pipe Restraint Seismic, Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-RH-180-SG-7	Pipe Support, Guide	80A6474	N/A	B-K-2 B11.10	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: D-i0							
1-RH-180-SG-8	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-180-RM-11	Pipe Restraint Seismic, Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-RH-180-SG-10	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-RH-180-SG-9	Pipe Support, Guide	80A6474	N/A	B-K-2	VT-3	B11.10	

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COMPONENT EXAMINATIONS Reference Drawing No: D-02, D-06							
1-RH-155-5-V59-B	Valve RH-V59 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-155-5-V15-B	Valve RH-V15 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-152-2-V31-B	Valve RH-V31 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-162-2-V61-B	Valve RH-V61 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-163-2-V30-B	Valve RH-V30 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-163-2-V65-B	Valve RH-V65 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-158-5-V29-P	Valve RH-V29 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-158-5-V63-B	Valve RH-V63 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATIONS Reference Drawing No: D-02, D-08, D-10							
1-RH-160-5 V50-B	Valve RH-V50 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-160-5 V53-B	Valve RH-V53 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-180-2 V51-B	Valve RH-V51 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-180-3 V52-B	Valve RH-V52 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-RH-162-5 V61-IS	Gate Valve RH-V61 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	
1-RH-160-5 V53-IS	Check Valve RH-V53 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	
1-RH-180-3 V52-IS	Check Valve RH-V52 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	



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PSI PROGRAM PLAN:

SAFETY INJECTION SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineering Dept. Manager	Emile B. Bernier	1/13/84
Program Standards Manager	L. Soper	1/16/84
Project Manager	Lawrence P. Brimley	1/13/84
Quality Assurance Manager	T.A. Schneider for W.A.G.	1/18/84



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SAFETY INJECTION SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 1 and Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 components, NES Document 80A8989 delineates PSI requirements for Class 3 components of this system.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Safety Injection System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Safety Injection System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

ASME Code Class	Description	Ref. P&ID	Basis For Exemption
1	Component connections, piping, & associated valves of 1" nominal size and smaller	F-805009/5 F-805010/5	Piping 1" nominal size and smaller exempted as per ASME Section XI Code IWB-1220(b) S '78 Addenda
2	All pipe vents, drains, test, sample, fill, by-pass, and instrument connections 4" nominal size and smaller	F-805009/5 F-805010/5	All component connections, piping and associated valves, and vessels (and their supports) that are 4" nominal pipe size & smaller are exempted as per ASME Section XI, IWC- 1220(d) S '75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Safety Injection System.

TABLE - 2.3
SYSTEM CLASSIFICATIONS

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	Four Boron injection loops starting from valve SI-VI40 up to the Reactor Coolant System.	F-805010/5
1	Four loops starting from Class 2 upto the Reactor Coolant System	F-805009/4
2	Four loops from Accumulators up to the first valve	F-805009/4

2.4 CALIBRATION STANDARDS

Table 2.4 lists the Calibration Standards for Ultrasonic examinations scheduled for the Safety Injection System. All Calibration Standards are to be retained on site. The General Reference text discusses the basis for requirement of these Calibration Standards.

Table - 2.4
Reference Calibration Standards

TITLE	SCHEDULE	MATERIALS
SB-10-140-SS	SCH 140	SA 376 TP 316
SB-06-160-SS	SCH 160	SA 376 TP 316

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Safety Injection System that are Class 1 and Class 2.

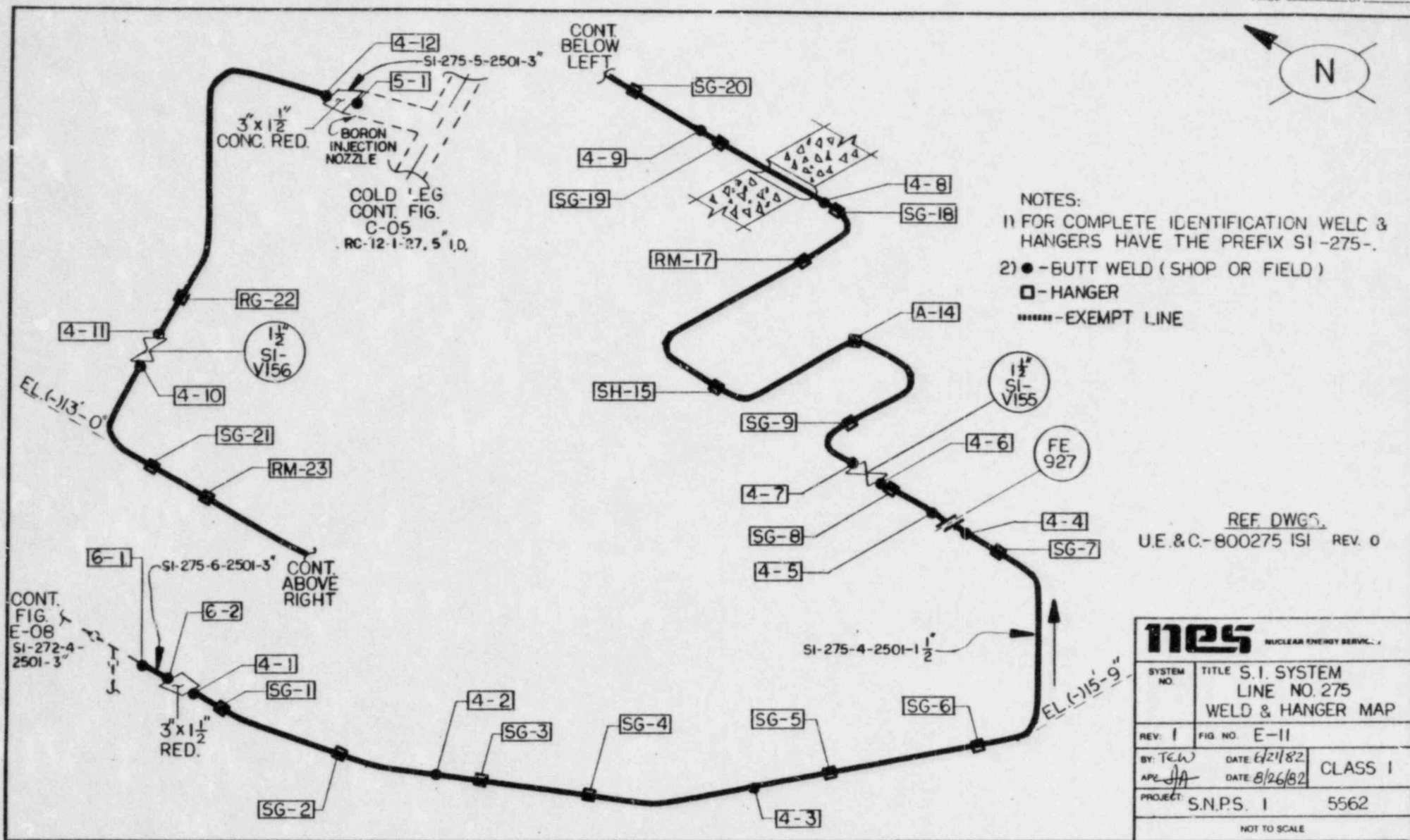
TABLE - 2.5
SI System: Isometric Figures

E-01	Rev. 1
E-02	Rev. 1
E-03	Rev. 1
E-04	Rev. 1
E-05	Rev. 1
E-06	Rev. 1
E-07	Rev. 1
E-08	Rev. 1
E-09	Rev. 1
E-10	Rev. 1
E-11	Rev. 1

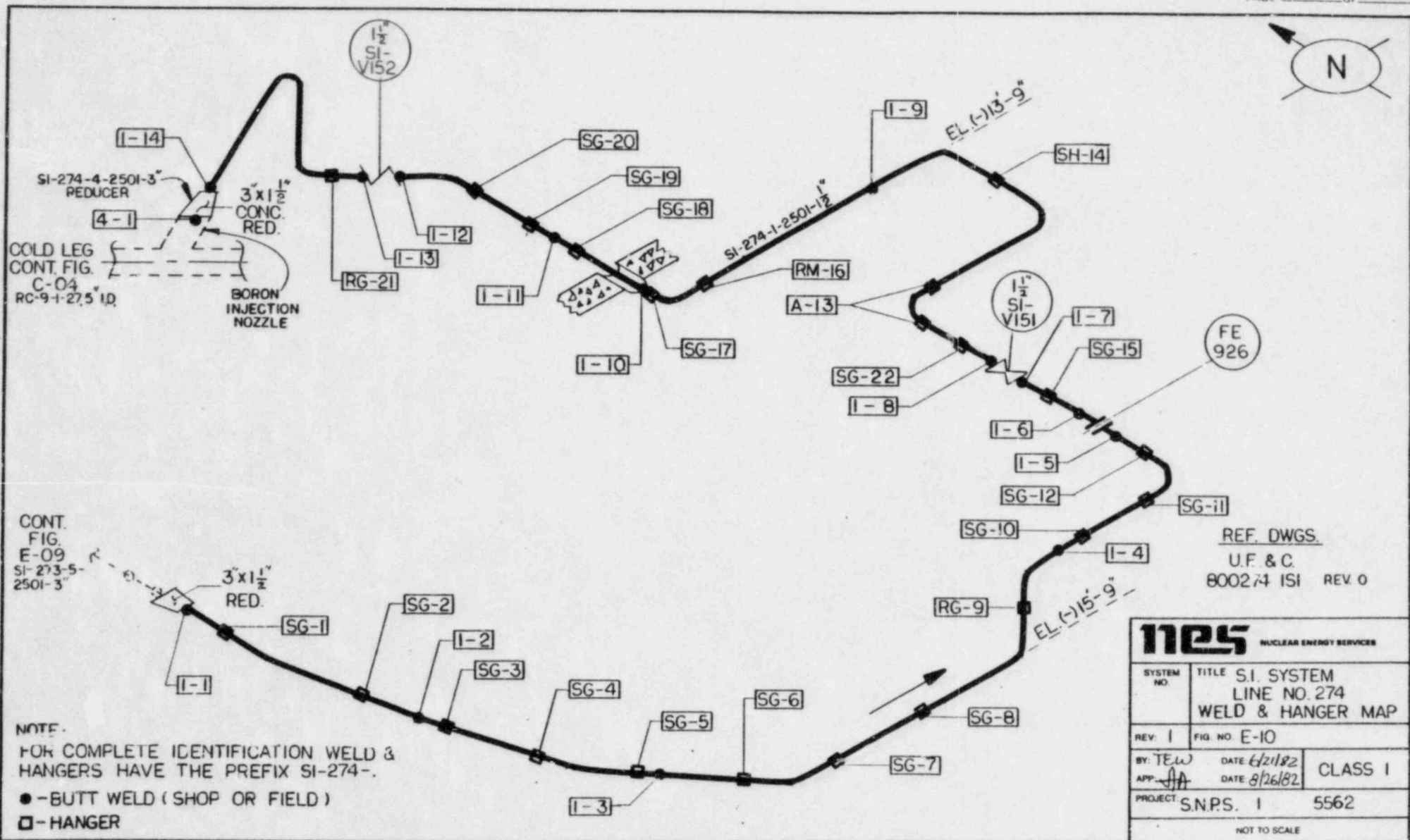
3. PROGRAM PLAN AND SCHEDULE

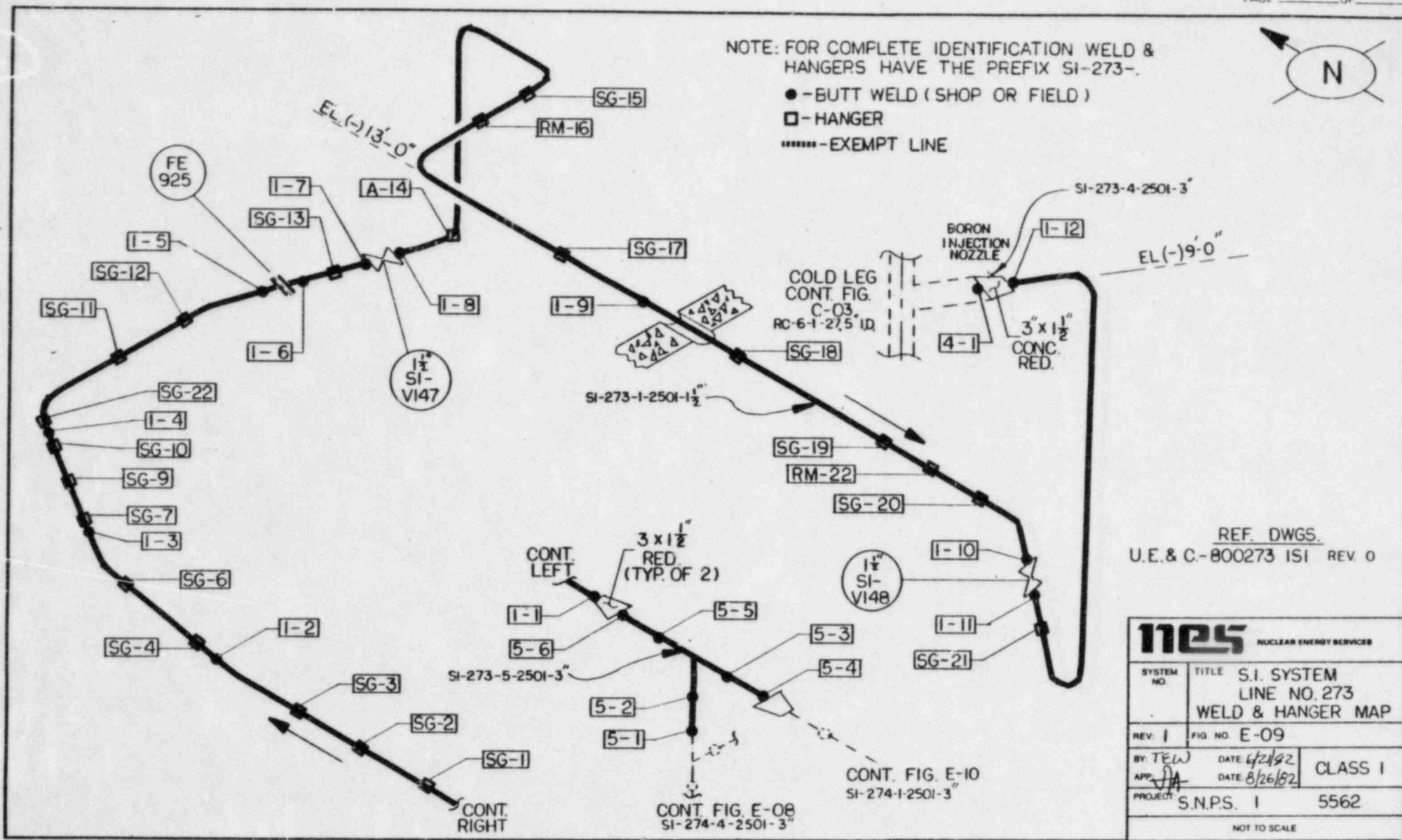
The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.




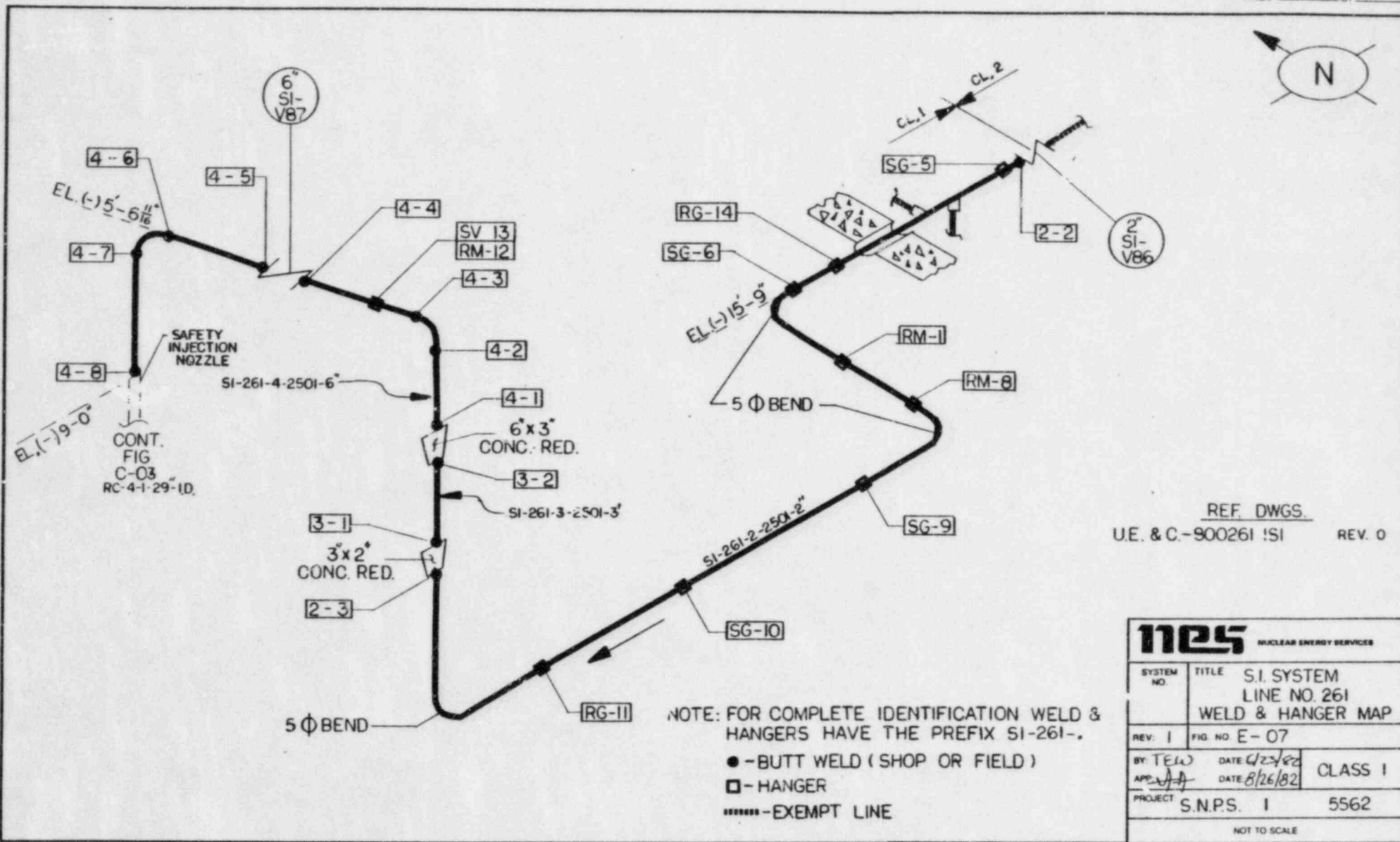
NES NUCLEAR ENERGY SERVICE, INC.	
SYSTEM NO.	TITLE S.I. SYSTEM LINE NO. 275 WELD & HANGER MAP
REV. 1	FIG. NO. E-11
BY: TELW APL JFA	DATE 6/21/82 DATE 8/26/82
PROJECT S.N.P.S. 1	CLASS 1 5562
NOT TO SCALE	



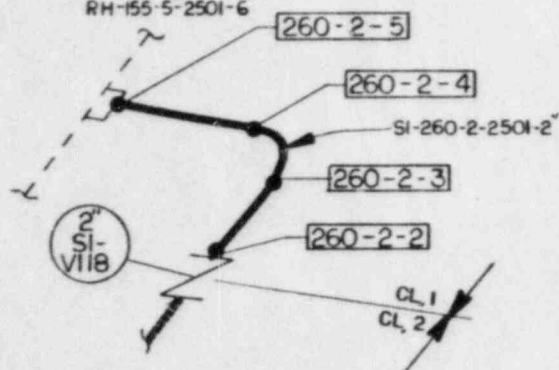




 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE S.I. SYSTEM LINE NO. 272 WELD & HANGER MAP
REV: 0	FIG. NO. E-08
BY: <i>TEW</i> APE: <i>JA</i>	DATE: <i>5/29/82</i> DATE: <i>8/26/82</i>
PROJECT: S.N.P.S. I	5562
NOT TO SCALE	



CONT. FIG.
D-02
RH-155-5-250I-6"



NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX SI-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE

SI-258-2-250I-2"

258-2-2

CL.2

CL.1

CONT. FIG.
D-06
RH-158-5-250I-6"

EL. 114'-10"

2
SI-VI26

258-2-3

2"
SI-VI06

250-5-4

250-5-3

CL.2

CL.1

CONT. FIG.
D-08
RH-160-5-250I-8"

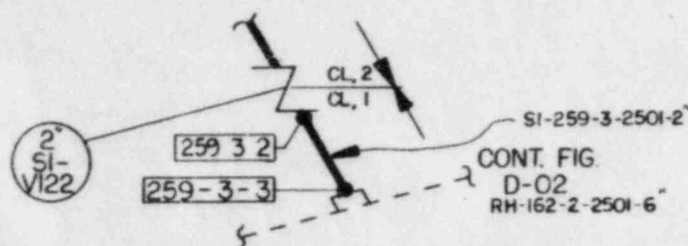
250-5-1

250-5-2

SI-250-5-250I-2"

REF. DWGS.

U.E.&C.-800250 ISI	REV. 0
-800256 ISI	REV. 0
-800258 ISI	REV. 0
-800259 ISI	REV. 0
-800260 ISI	REV. 0



CONT. FIG.
D-02
RH-162-2-250I-6"

256-4-3

256-4-2

CONT.
FIG. D-06
RH-163-2-250I-6"

2
SI-VI30

SI-256-4-250I-2"

CL.2

CL.1

* 250, 256, 258, 259, 260

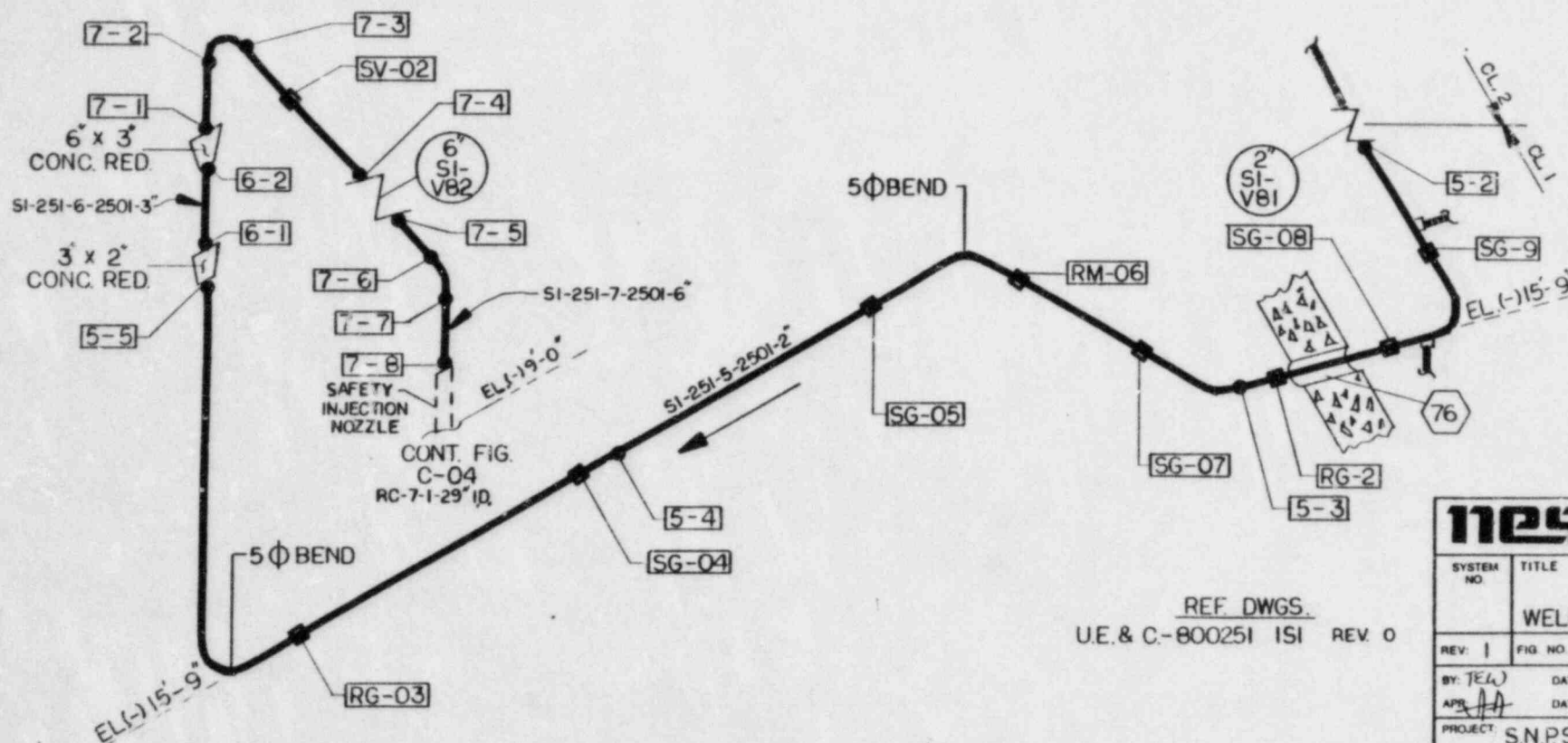
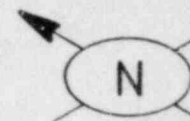
NES NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE S.I. SYSTEM LINE NOS. * WELD & HANGER MAP
REV. 1	FIG. NO. E-06
BY: TEL	DATE 6/24/82
APR: JAA	DATE 8/26/82
PROJECT	S.N.P.S. 1 5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX SI-251

● - BUTT WELD (SHOP OR FIELD)

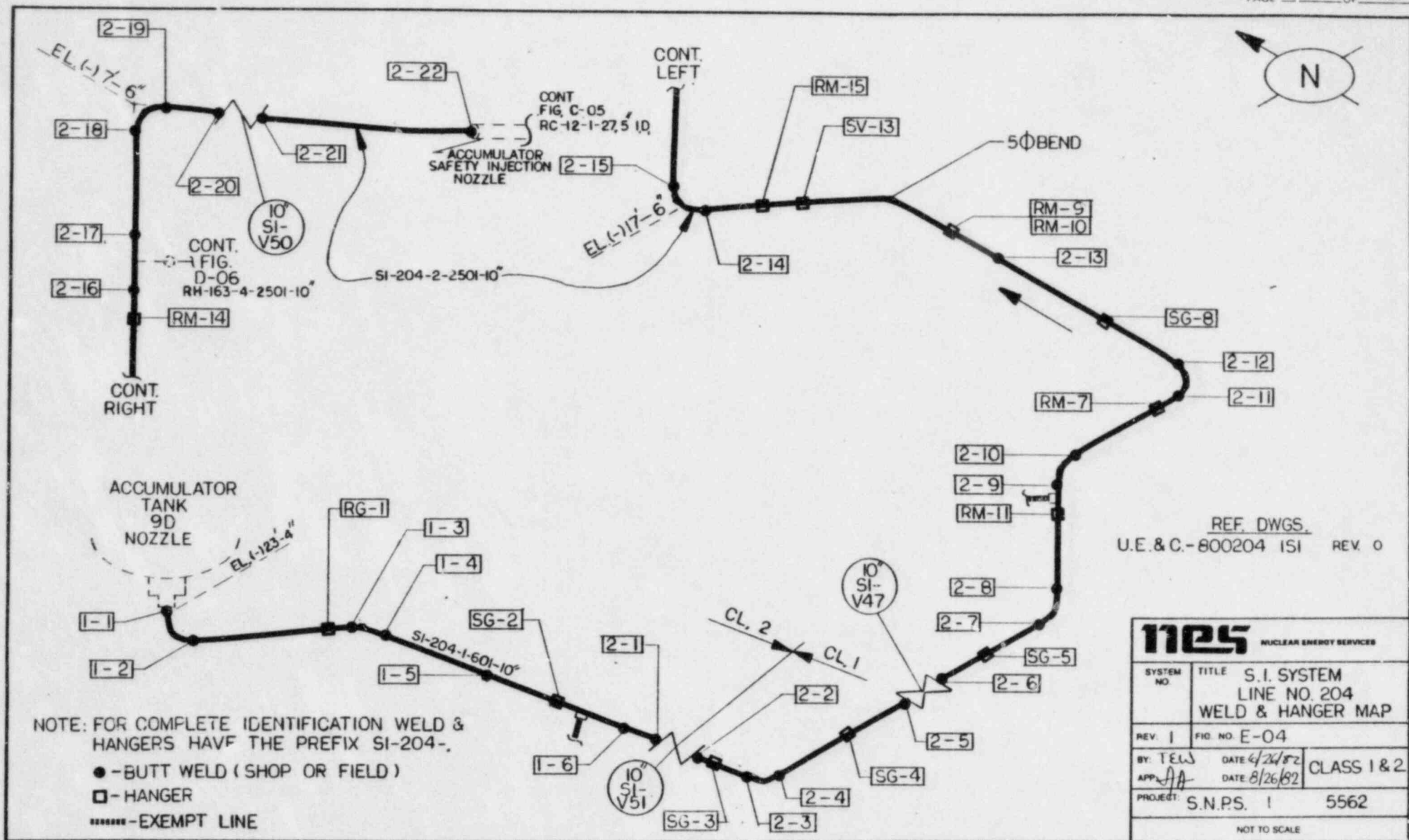
□ - HANGER

----- EXEMPT LINE



REF DWGS.
U.E. & C.-800251 ISI REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE S.I. SYSTEM LINE NO. 251 WELD & HANGER MAP
REV: 1	FIG. NO. E-05
BY: TEW APR 11	DATE 6/25/82 DATE 8/26/82
PROJECT S.N.P.S. 1	5562
NOT TO SCALE	

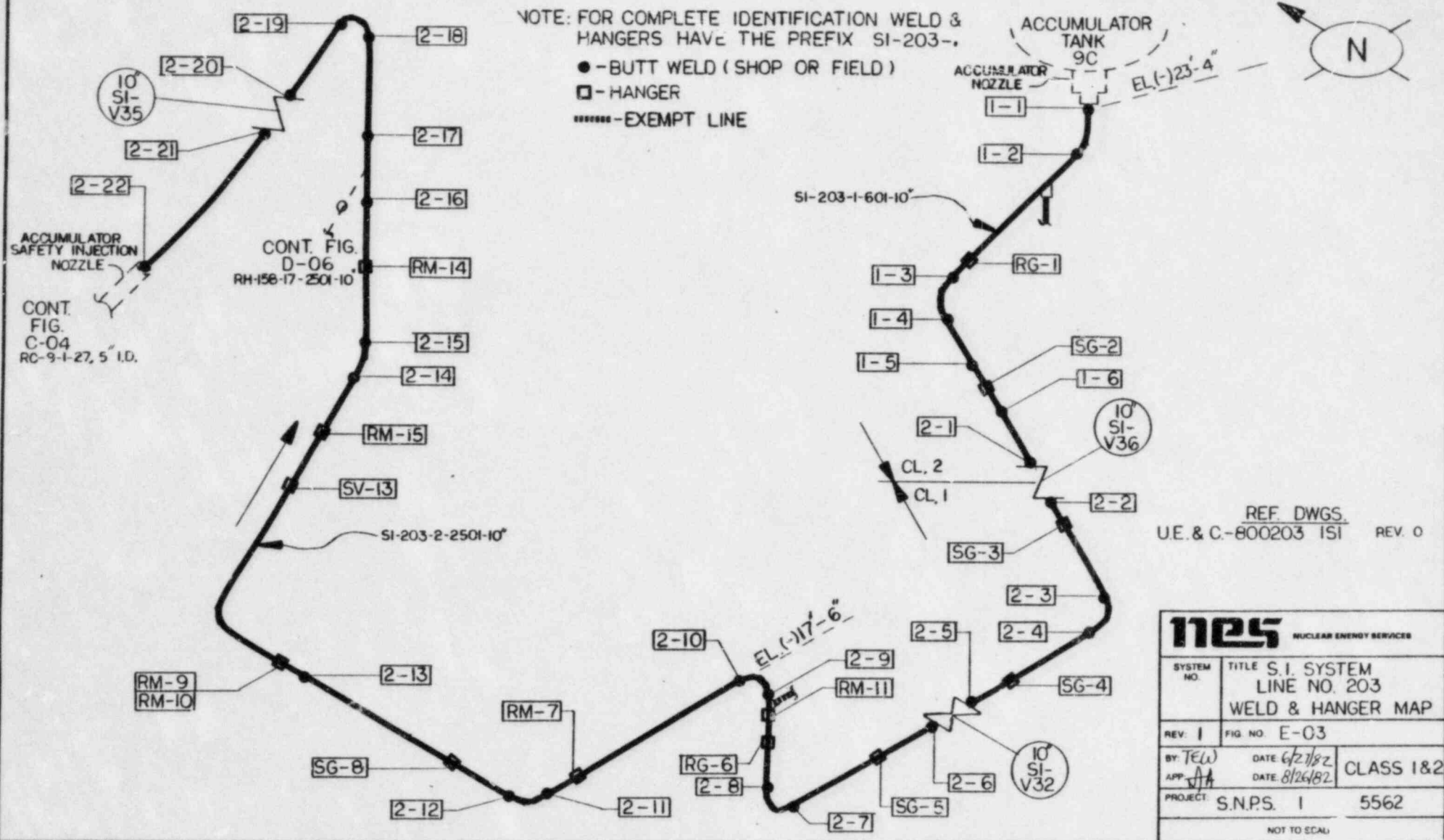


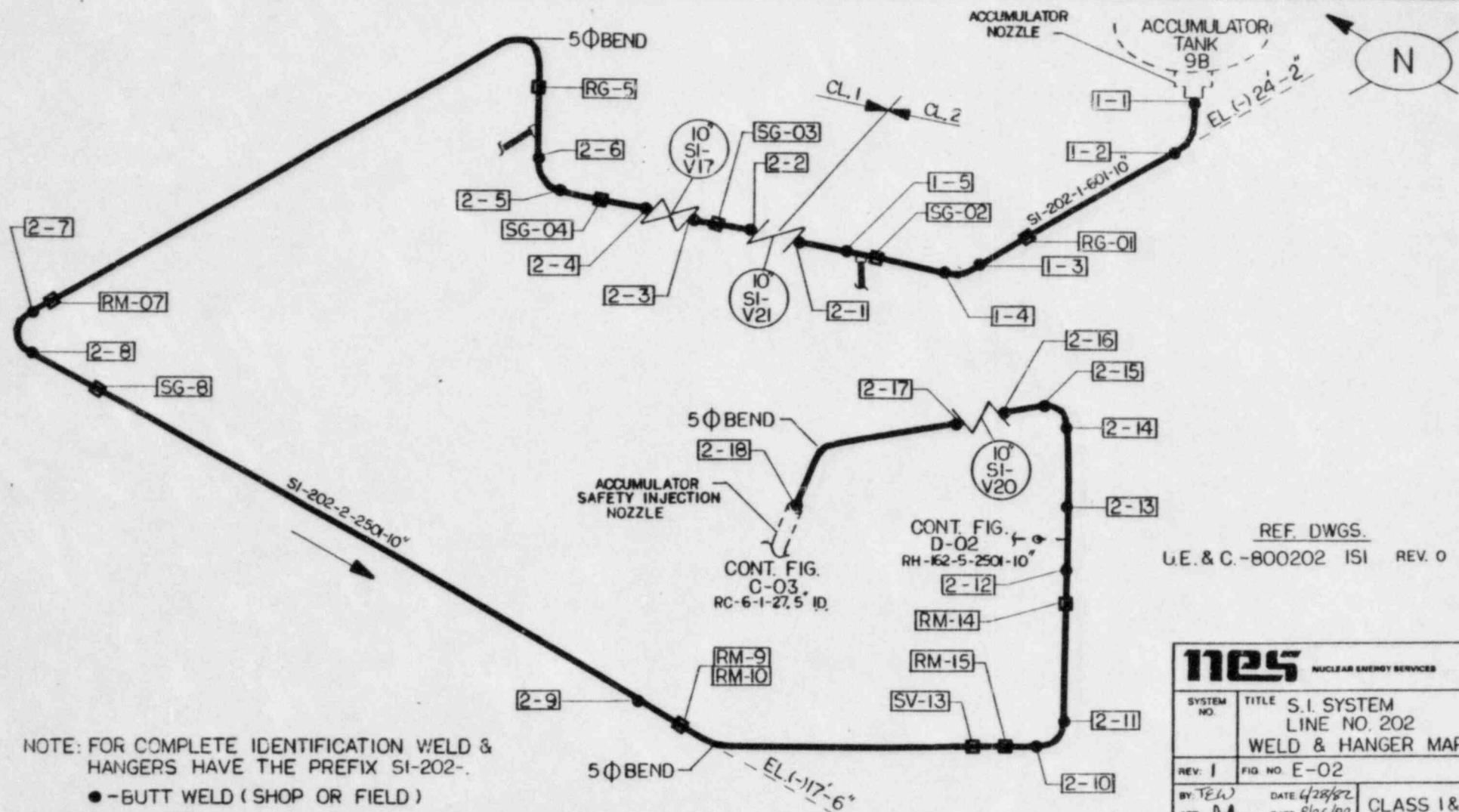
NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX SI-203--.

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

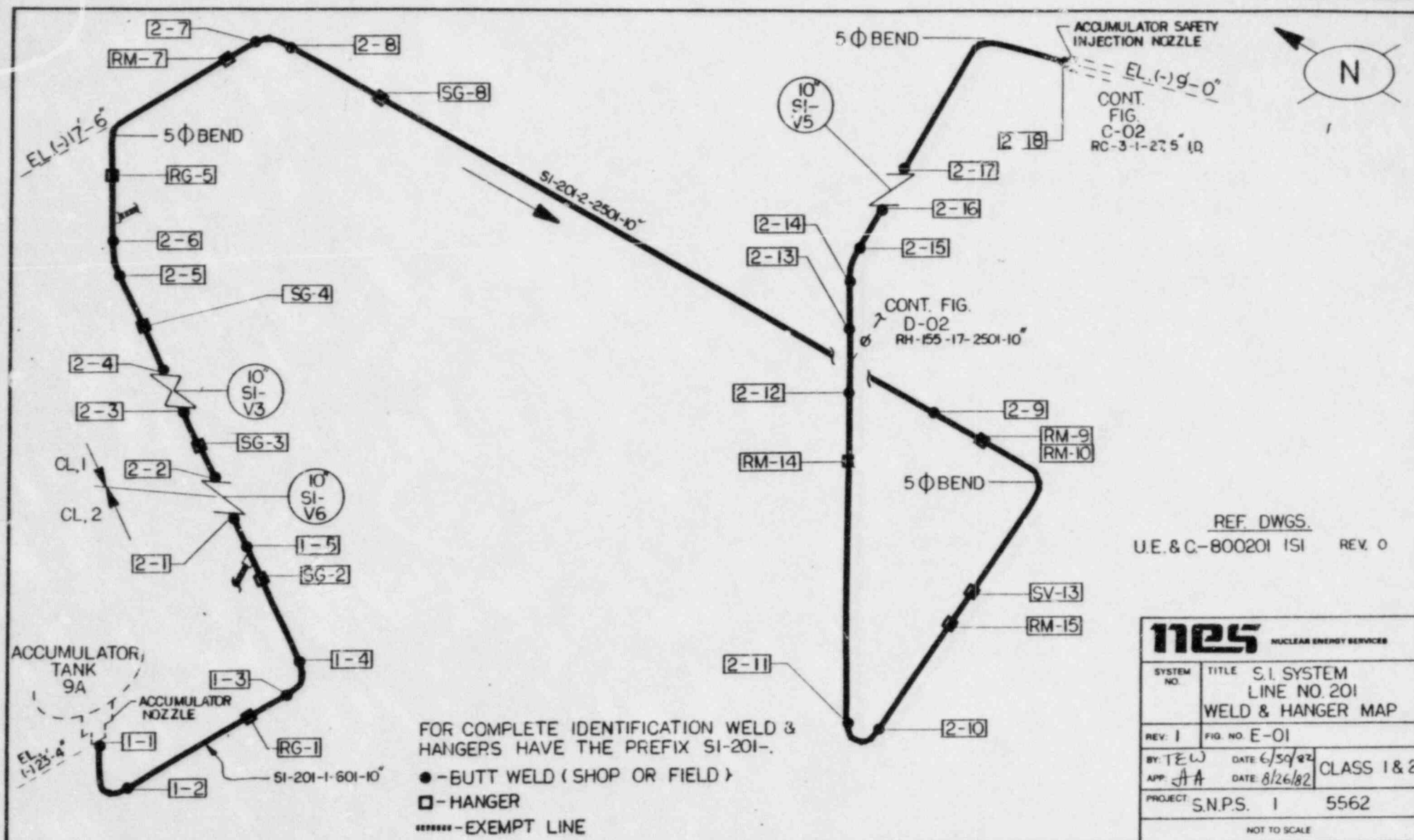
----- EXEMPT LINE





REF. DWGS.
U.E. & C.-800202 ISI REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE S.I. SYSTEM LINE NO. 202 WELD & HANGER MAP
REV: 1	FIG. NO. E-02
BY: TEL	DATE 4/28/82
APP: JAA	DATE 8/26/82
PROJECT: S.N.P.S. I	5562
NOT TO SCALE	





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Document No. 80A8985
Preservice Inspection

PROGRAM PLAN AND SCHEDULE

5562-SEABROOK

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App: EMP Date: 1-12-84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. E-01							
1-SI-201-1-1	10" Accumulator Tank Nozzle to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-SI-201-1-2	10" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
SE-201-1-3	10" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-SI-201-1-4	10" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-SI-201-1-5	10" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-SI-201-2-1	10" Pipe to Valve SI-V6	80A6472	N/A	C-F	PT		
				C5.11			
1-SI-201-2-2	10" Valve SI-V6 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. E-01							
1-SI-201-2-3	10" Pipe to Valve SI-V3	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-4	10" Valve SI-V3 to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-5	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-6	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-7	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-8	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-201-2-9	10" Pipe to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Ref. Dwg. No. E-01							
1-SI-201-2-10	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-11	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-12	10" Pipe to Tee	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-13	10" Tee to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-14	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-15	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-16	10" Pipe to Valve SI-V5	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-01							
1-SI-201-2-17	10" Valve SI-V5 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-201-2-18	10" Pipe to Accumulator Safety Injection Nozzle	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-02							
1-SI-202-1-1	10" Accumulator Tank Nozzle to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-202-1-2	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-202-1-3	10" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-202-1-4	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-202-1-5	10" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-202-2-1	10" Pipe to Valve SI-V21	80A6472	N/A	C-F C5.11	PT		
1-SI-202-2-2	10" Valve SI-V21 to Pipe	80A6462 80A6472	SB-10-140-SS N/A	B-J B9.11	UT PT		



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PIPING WELDS Ref. Dwg. No. E-02							
1-SI-202-2-3	10" Pipe to Valve SI-V17	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-4	10" Valve ST-V17 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-5	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-6	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-7	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-8	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-9	10" Pipe to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS							
Ref. Dwg. No. E-02							
1-SI-202-2-10	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-11	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-12	10" Pipe to Tee	80A6462	SB-10-140 SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-13	10" Tee to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-14	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-15	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202-2-16	10" Pipe to Valve SI-V20	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-02							
1-SI-202- 2-17	10" Valve SI-V20 to Pipe	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-202- 2-18	10" Pipe to Accumulator Safety Injection Nozzle	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. E-03							
1-SI-203-1-1	10" Accumulator Tank Nozzle to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-203-1-2	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-203-1-3	10" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-203-1-4	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-203-1-5	10" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-203-1-6	10" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-203-2-1	10" Pipe to Valve SI-V36	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION CHECK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. E-03							
1-SI-203-2-2	10" Valve SI-V36 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-3	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-4	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-5	10" Pipe to Valve SI-V32	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-6	10" Valve SI-V32 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-7	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-8	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS							
Ref. Dwg. No. E-03							
1-SI-203-2-9	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-10	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-11	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-12	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-13	10" Pipe to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-14	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-15	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-03							
1-SI-203-2-16	10" Pipe to Tee	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-17	10" Tee to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-18	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-19	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-20	10" Pipe to Valve SI-V35	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-21	10" Valve SI-V35 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-203-2-22	10" Pipe to Accumulator Safety Injection Nozzle	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-04							
1-SI-204-1-1	10" Accumulator Tank Nozzle to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-204-1-2	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-204-1-3	10" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-SI-204-1-4	10" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-204-1-5	10" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-204-1-6	10" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-SI-204-2-1	10" Pipe to Valve SI-V51	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. E-04							
1-SI-204-2-2	10" Valve SI-V51 to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-3	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-4	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-5	10" Pipe to Valve SI-V47	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-6	10" Valve SI-V47 to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-7	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-204-2-8	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Ref. Dwg. No. E-04							
1-SI-204- 2-9	10" Pipe to Elbow	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-10	10" Elbow to Pipe	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-11	10" Pipe to Elbow	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-12	10" Elbow to Pipe	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-13	10" Pipe to Pipe	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-14	10" Pipe to Elbow	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204- 2-15	10" Elbow to Pipe	80A6462	SB-10- 140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS							
Ref. Dwg. No. E-04							
1-SI-204-2-16	10" Pipe to Tee	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204-2-17	10" Tee to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204-2-18	10" Pipe to Elbow	80A6462	SB-10-140-SS	B-J	UT		
		80a6472	N/A	B9.11	PT		
1-SI-204-2-19	10" Elbow to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204-2-20	10" Pipe to Valve SI-V50	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204-2-21	10" Valve SI-V50 to Pipe	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-204-2-22	10" Pipe to Accumulator Safety Injection Nozzle	80A6462	SB-10-140-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-05							
1-SI-251-5-2	2" Valve SI-V81 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-251-5-3	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-251-5-4	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-251-5-5	2" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-251-6-1	2" x 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-251-6-2	3" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-251-7-1	3" x 6" Reducer to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A		PT		



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PIPING WELDS Ref. Dwg. No. E-05							
1-SI-251-7-2	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-3	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-4	6" Pipe to Valve SI-V82	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-5	6" Valve SI-V82 to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-6	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-7	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-251-7-8	6" Pipe to Safety Injection Nozzle	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		



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PIPING WELDS Ref. Dwg. No. E-06							
1-SI-250-5-1	2" Branch Connection to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-250-5-2	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-SI-250-5-3	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-250-5-4	2" Pipe to Valve SI-V06	80A6472	N/A	B-J B9.21	PT		
1-SI-256-4-3	2" Branch Connection to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-256-4-2	2" Pipe to Valve SI-V130	80A6472	N/A	B-J B9.21	PT		
1-SI-258-2-3	2" Branch Connection to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-06							
1-SI-258-2-2	2" Pipe to Valve SI-V126	80A6472	N/A	B-J B9.21	PT		
1-SI-259-3-3	2" Branch Connection to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-258-3-2	2" Pipe to Valve SI-V122	80A6472	N/A	B-J B9.21	PT		
1-SI-260-2-5	2" Branch Connection to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-260-2-4	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-SI-260-2-3	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-260-2-2	2" Pipe to Valve SI-V118	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS							
Ref. Dwg. No. E-07							
1-SI-261-4-8	6" Safety Injection Nozzle to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-7	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-6	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-5	6" Pipe to Valve SI-V87	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-4	6" Valve SI-V87 to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-3	6" Pipe to Elbow	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				
1-SI-261-4-2	6" Elbow to Pipe	80A6462	SB-06-160-SS	B-J B9.11	UT		
		80A6472	N/A				



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PIPING WELDS Ref. Dwg. No. E-07							
1-SI-261-4-1	6" Pipe to Reducer	80A6462	SB-06-160-SS	B-J	UT		
		80A6472	N/A	B9.11	PT		
1-SI-261-3-2	6" x 3" Reducer to Pipe	80A6472	N/A	B-J	PT		
				B9.21			
1-SI-261-3-1	3" Pipe to Reducer	80A6472	N/A	B-J	PT		
				B9.21			
1-SI-261-2-3	3" x 2" Reducer to Pipe	80A6472	N/A	B-J	PT		
				B9.21			
1-SI-261-2-2	2" Pipe to Valve SI-V86	80A6472	N/A	B-J	PT		
				B9.21			



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PIPING WELDS Ref. Dwg. No. E-08							
1-SI-272-20-1	3" Boron Injection Nozzle to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-12	3" x 1½" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-11	1½" Pipe to Valve SI-V144	80A6472	N/A	3-J B9.21	PT		
1-SI-272-5-10	1½" Valve SI-V144 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-9	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-8	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-7	1½" Pipe to Valve SI-V143	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-08							
1-SI-272-5-6	1½" Valve SI-V143 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-5	1½" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-4	1½" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-3	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-2	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-5-1	1½" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-9	1½" x 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-08							
1-SI-272-4-8	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-7	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-6	3" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-5	3" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-4	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-3	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-272-4-2	3" Pipe to Valve SI-V140	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-09							
1-SI-273-4-1	3" Boron Injection Nozzle to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-12	3" x 1½" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-11	1½" Pipe to Valve SI-V148	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-10	1½" Valve SI-V148 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-9	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-8	1½" Pipe to Valve SI-V147	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-7	1½" Valve SI-V147 to Pipe	80A6472	N/A	B-J B9.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. E-09							
1-SI-273-1-6	1½" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-5	1½" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-4	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-3	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-2	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-1-1	1½" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-273-5-6	1½" x 3" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-09							
1-SI-273-5-5	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-SI-273-5-2	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-5-1	3" Pipe to Tee	80A6472	N/A	B-J B9.21	PT		
1-SI-273-5-3	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-273-5-4	3" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-10							
1-SI-274-1-1	3" x 1½" Reducer to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-2	1½" Pipe to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-3	1½" Pipe to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-4	1½" Pipe to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-5	1½" Pipe to Flange	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-6	1½" Flange to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-274-1-7	1½" Pipe to Valve SI-V151	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Ref. Dwg. No. E-10							
1-SI-274-1-8	1½" Valve SI-V151 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-274-1-9	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-274-1-10	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-274-1-11	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-274-1-12	1½" Pipe to Valve SI-V152	80A6472	N/A	B-J B9.21	PT		
1-ST-274-1-13	1½" Valve SI-V152 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-274-1-14	1½" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-10							
1-SI-274- 4-1	1½" x 3" Reducer to 3" Boron Injection Nozzle	80A6472	N/A	B-J	PT	B9.21	



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PIPING WELDS Ref. Dwg. No. E-11							
1-SI-275-6-1	3" Tee to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-275-6-2	3" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-SI-275-4-1	3" x 1½" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-275-4-3	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-275-4-2	1½" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-SI-275-4-4	1½" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-SI-275-4-5	1½" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Ref. Dwg. No. E-11							
1-SI-175-4-6	1½" Pipe to Valve SI-V155	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-7	1½" Valve SI-V155 to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-8	1½" Pipe to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-9	1½" Pipe to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-10	1½" Pipe to Valve SI-V156	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-11	1½" Valve SI-V156 to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-4-12	1½" Pipe to Reducer	80A6472	N/A	B-J	PT	B9.21	
1-SI-275-5-1	1½" x 3" Reducer to Boron Injection Nozzle	80A6472	N/A	B-J	PT	B9.21	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-01							
1-SI-201-1-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-SI-201-1-SG-2	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-SI-201-2-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-201-2-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-201-2-RG-5	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-201-2-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-201-2-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-01							
1-SI-201-2-RM-9	Pipe Restraint Seismic Snubber	80A6464	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-201-2-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-201-2-SV-13	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-201-2-RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-201-2-RM-14	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-02							
1-SI-202-1-RG-01	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-SI-202-1-SG-02	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-SI-202-2-SG-03	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-SI-202-1-SG-04	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-SI-202-1-RG-5	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			
1-SI-202-2-RM-07	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		
				B11.10	VT-4		
1-SI-202-2-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		
				B11.10			



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-02							
1-SI-202-2-RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-202-2-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-202-2-SV-13	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-202-2-RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-202-2-RM-14	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-03							
1-SI-203-1-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		C3.50
1-SI-203-1-SG-2	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50
1-SI-203-2-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-203-2-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-203-2-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-203-2-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-203-2-RM-11	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3		B11.10 VT-4



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-03							
1-SI-203-2-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-203-2-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-203-2-RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-203-2-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-203-2-SV-13	Pipe Support Variable Spring	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-203-2-RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-203-2-RM-14	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-04							
1-SI-204-1-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-SI-204-1-SG-2	Pipe Support Guide	80A6474	N/A	C-E	VT-3	C3.50	
1-SI-204-2-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-204-2-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-204-2-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-204-2-RM-11	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-204-2-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-04							
1-SI-204-2-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-204-2-RM-9	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-204-2-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-204-2-SV-13	Pipe Support Variable Spring	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-204-2-RM-15	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-204-2-RM-14	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-05							
1-SI-251-7-SV-02	Pipe Support Variable Spring	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-251-5-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-251-5-SG-04	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-251-5-SG-05	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-251-5-RM-06	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-251-5-SG-07	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-251-5-RG-2	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 B11.10	VT-3		



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-05							
1-SI-251-5- SG-08	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-251-5- SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-07							
1-SI-261-4-SV-13	Pipe Support Variable Spring	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-261-4-RM-12	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-261-2-RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-SI-261-2-SG-10	Pipe Support Guide	80A6474	N/A	B-K-2 VT-3 B11.10			
1-SI-261-2-SG-9	Pipe Support Guide	80A7474	N/A	B-K-2 VT-3 B11.10			
1-SI-261-2-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			
1-SI-261-2-RM-1	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 VT-3 B11.10 VT-4			



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-07							
1-SI-261-2-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-261-2-RG-14	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-261-2-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-08							
1-SI-272-5-RG-2	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3 VT-4	B11.10	
1-SI-272-5-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-08							
1-SI-272-5-A-8	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-20	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-10	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-11	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-08							
1-SI-272-5-SG-15	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-5-SG-16	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-4-RG-19	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-4-A-17	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-272-4-SG-18	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-09							
1-SI-273-1-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10
1-SI-273-1-SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3		B11.10



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-09							
1-SI-273-1-SG-10	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-5-SG-22	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-5-SG-11	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-5-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-5-SG-13	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-1-A-14	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-273-5-SG-15	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-09							
1-SI-373-5-RM-16	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-273-5-SG-17	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-273-1-SG-18	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-273-1-SG-19	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-273-1-RM-22	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-SI-273-1-SG-20	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		
1-SI-273-1-SG-21	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-10							
1-SI-274-1-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-10							
1-SI-274-1-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-RG-9	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-10	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-11	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-15	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-22	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-10							
1-SI-274-1-A-13	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SH-14	Pipe Support Strut	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-RM-16	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-SI-274-1-SG-17	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-18	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-19	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-SG-20	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-274-1-RG-21	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-11							
1-SI-275-4-SG-1	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-3	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-4	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-7	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-11							
1-SI-275-4-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-A-14	Pipe Anchor	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SH-15	Pipe Support Strut	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-RM-17	Pipe Restraint Seismic Snubler	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	
1-SI-175-4-SG-18	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-SG-19	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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SUPPORT EXAMINATIONS Ref. Dwg. No. E-11							
1-SI-275-4-SG-20	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-RM-23	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10	VT-4
1-SI-275-4-SG-21	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-SI-275-4-RG-22	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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COMPONENT EXAMINATIONS Ref. Dwg. No. E-01, E-02, E-03							
1-SI-201-2-V3-B	Valve SI-V3 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-201-2-V6-B	Valve SI-V6 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-201-2-V5-B	Valve SI-V5 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-202-2-V20-B	Valve SI-20 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-202-2-V17-B	Valve SI-V17 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-202-2-V21-B	Valve SI-V21 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-203-2-V36-B	Valve SI-V36 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-203-2-V32-B	Valve SI-V32 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-203-2-V35-B	Valve SI-V35 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATIONS Ref. Dwg. No. E-04, E-05							
1-SI-204-2-V51-B	Valve SI-V51 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-204-2-V47-B	Valve SI-V47 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-204-2-V50-B	Valve SI-V50 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-251-7-V82-B	Valve SI-V82 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-SI-251-5-V81-B	Valve SI-V81 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT EXAMINATIONS Ref. Dwg. No. E-06, E-07, E-08							
1-SI-250-5-V106-B	Valve SI-V106 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-256-4-V130-B	Valve SI-V130 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-258-2-V126-B	Valve SI-V126 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-259-3-V122-B	Valve SI-V122 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-260-2-V118-B	Valve SI-V118 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-261-2-V86-B	Valve SI-V86 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-261-4-V87-B	Valve SI-V87 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-272-5-V144-B	Valve SI-V144 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-272-5-V143-B	Valve SI-V143 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70
1-SI-272-4-V140-B	Valve SI-V140 Bolting	80A6474	N/A	B-G-2	VT-1		B7.70



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COMPONENT EXAMINATIONS Ref. Dwg. No. E-09, E-10, E-11							
1-SI-274-1-V148-B	Valve SI-V148 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		
1-SI-274-1-V147-B	Valve SI-V147 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		
1-SI-274-1-V151-B	Valve SI-V151 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		
1-SI-274-1-V152-B	Valve SI-V152 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		
1-SI-275-4-V155-B	Valve SI-V155 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		
1-SI-275-4-V156-B	Valve SI-V156 Bolting	80A6474	N/A	B-G-2	VT-1 B7.70		



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COMPONENT EXAMINATIONS Ref. Dwg. No. E-01, E-05							
1-SI-201-2-V5-IS	Check Valve SI-V5 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	
1-SI-251-7-V82-IS	Check Valve SI-V82 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	
1-SI-201-2-V3-IS	Gate Valve SI-V3 Internal Surface	80A6474	N/A	B-M-2	VT-1	B12.40	



NUCLEAR ENERGY SERVICES, INC.

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PSI PROGRAM PLAN:

MAIN STEAM SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application	5562	Prepared By	Asrar Ahmed	Date	1/12/84
APPROVALS					
TITLE/DEPT.	SIGNATURE			DATE	
Project Engineer	<i>Asrar Ahmed</i>			1/12/84	
Engineering Dept. Manager	<i>Bruce Blum</i>			1/13/84	
Program Standard Manager	<i>L. Sage</i>			1/16/84	
Project Manager	<i>Lawrence P. Brumley</i>			1/13/84	
Quality Assurance Manager	<i>T.A. Schneider for W.S.B.</i>			1/18/84	



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MAIN STEAM SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 Components, NES Document No. 80A8989 delineates PSI requirements for Class 3 components of this System.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Main Steam System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Main Steam System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

ASME Code Class	Description	Ref. P&ID	Basis For Exemption
2	All vents, drains, test, sample, fill, by-pass, and instrument connections 4" nominal pipe size and smaller	F-202074/7 F-805002/5 F-805003/6 F-805004/5 F-805005/5	All component connections, piping & associated valves, and vessel (and their supports) that are 4 in. nominal pipe size & smaller are exempted as per ASME Section XI, IWC-1220(d) S '75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Main Steam System.

TABLE - 2.3
SYSTEM CLASSIFICATION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	None	None
2	Four Main Steam loops from Steam Generator through containment up to the end of Main Steam pipe chase including the isolation valves	F-202074/7 F-805002/5 F-805003/6 F-805004/5 F-805005/5

2.4 CALIBRATION STANDARDS

Table 2.4 lists the Calibration Standards for Ultrasonic examinations scheduled for the Main Steam System. All Calibration Standards are to be retained on site. The General Reference text discusses the basis for requirement of these Calibration Standards.

Table 2.4
Reference Calibration Standards

TITLE	SCHEDULE	MATERIALS
SB-32-XXI-CS	1.500" Wall Thick	SA 155 KCF 70
SB-32-XX2-CS	1.250" Wall Thick	SA 155 KCF 70
SB-30-XXI-CS	1.156" Wall Thick	SA 155 KCF 70
SB-30-XX2-CS	1.355" Wall Thick	SA 106 GR C
SB-10-080-CS	SCH 80	SA 106 GR B

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Main Steam System that are Class 1 and Class 2.

TABLE - 2.5
MS System: Isometric Figures

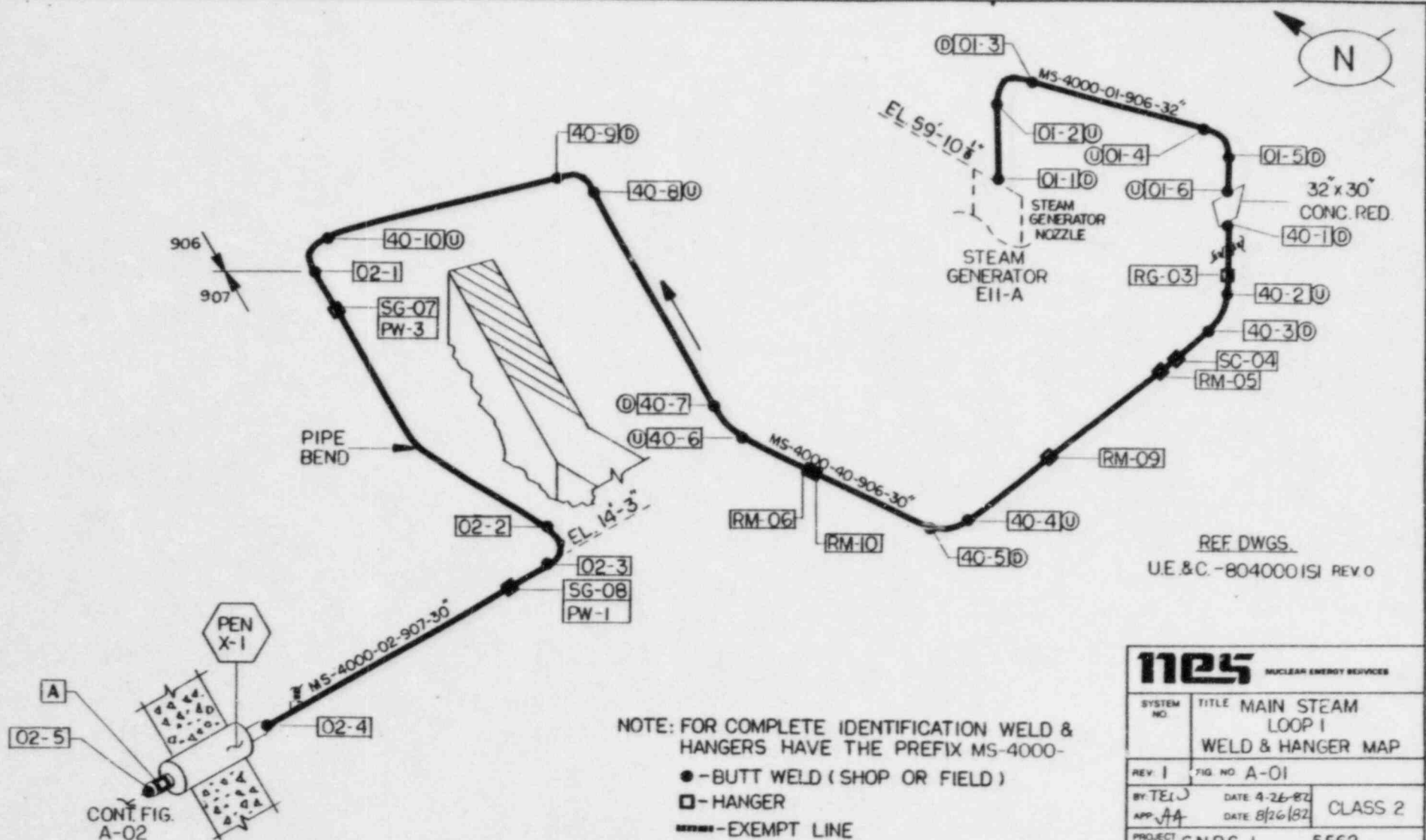
A-01	Rev. 1
A-02	Rev. 1
A-03	Rev. 1
A-04	Rev. 1
A-05	Rev. 1
A-06	Rev. 1
A-07	Rev. 1
A-08	Rev. 1

3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.

The Class 2 piping welds in the Main Steam system are listed on the schedule sheets as Code Category C-F in accordance with Section XI, 1977 Edition through Summer 1978 Addenda. As discussed in Paragraph 3.4 of General Reference Text, the extent of examination for Class 2 systems have been determined using Section XI, 1974 Edition through Summer 1975 Addenda. Thus the extent of examination of this system's piping weld have been determined using the requirements of Code Category C-G of Section XI, 1974 Edition through Summer 1975 Addenda. This requires the examination of only 50% of the welds at structural discontinuities. 100% of the welds are scheduled for examination in the Reference PSI Program Plan as requested by the owner.



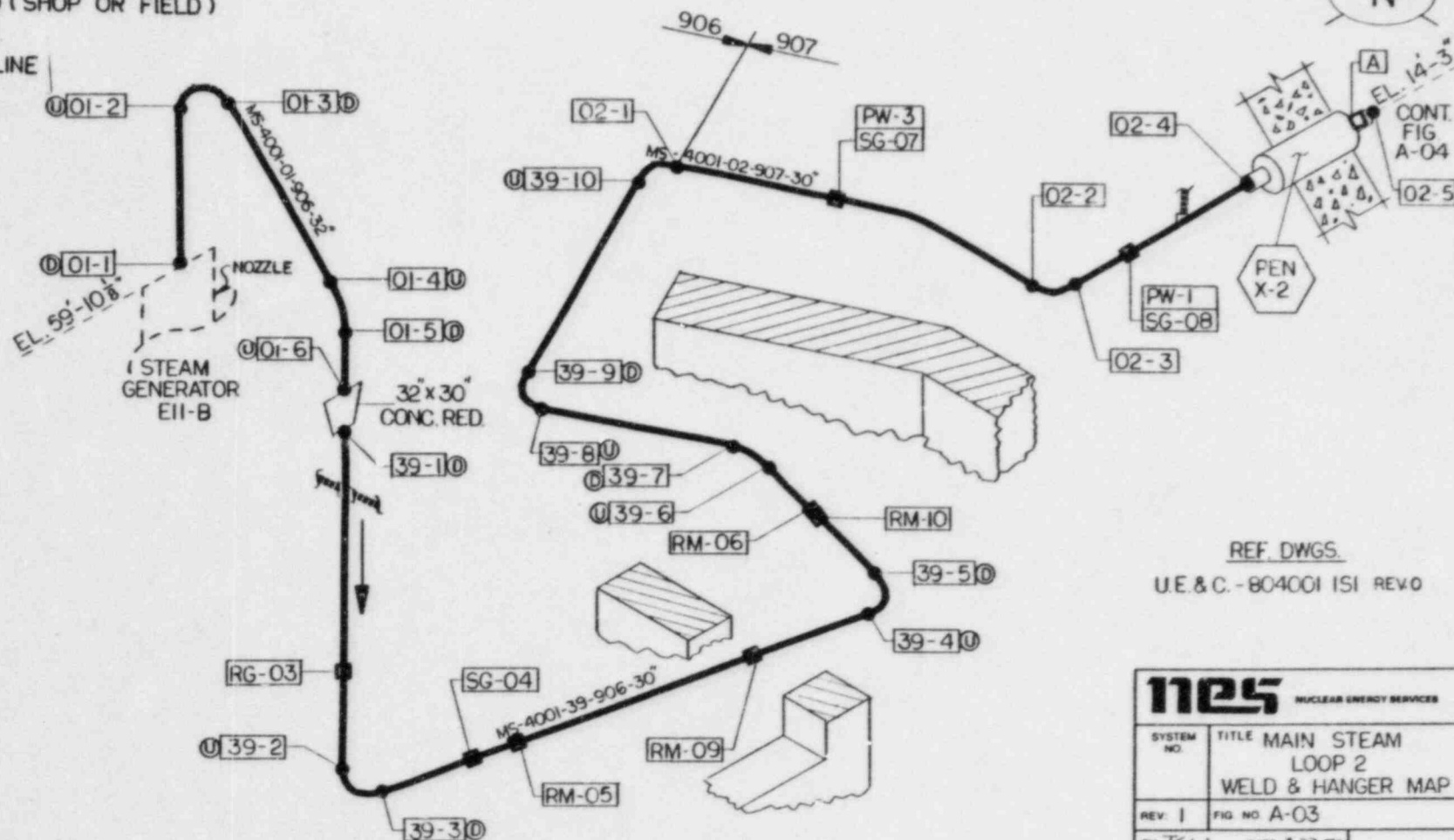


NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX MS-400I-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



REF. DWGS.

U.E.&C. - 80400I ISI REV0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE MAIN STEAM LOOP 2 WELD & HANGER MAP
REV. 1	FIG. NO. A-03
BY: TEW	DATE: 4-27-82
APP: AA	DATE: 8/26/82
PROJECT: SNPS. 1	5562
NOT TO SCALE	

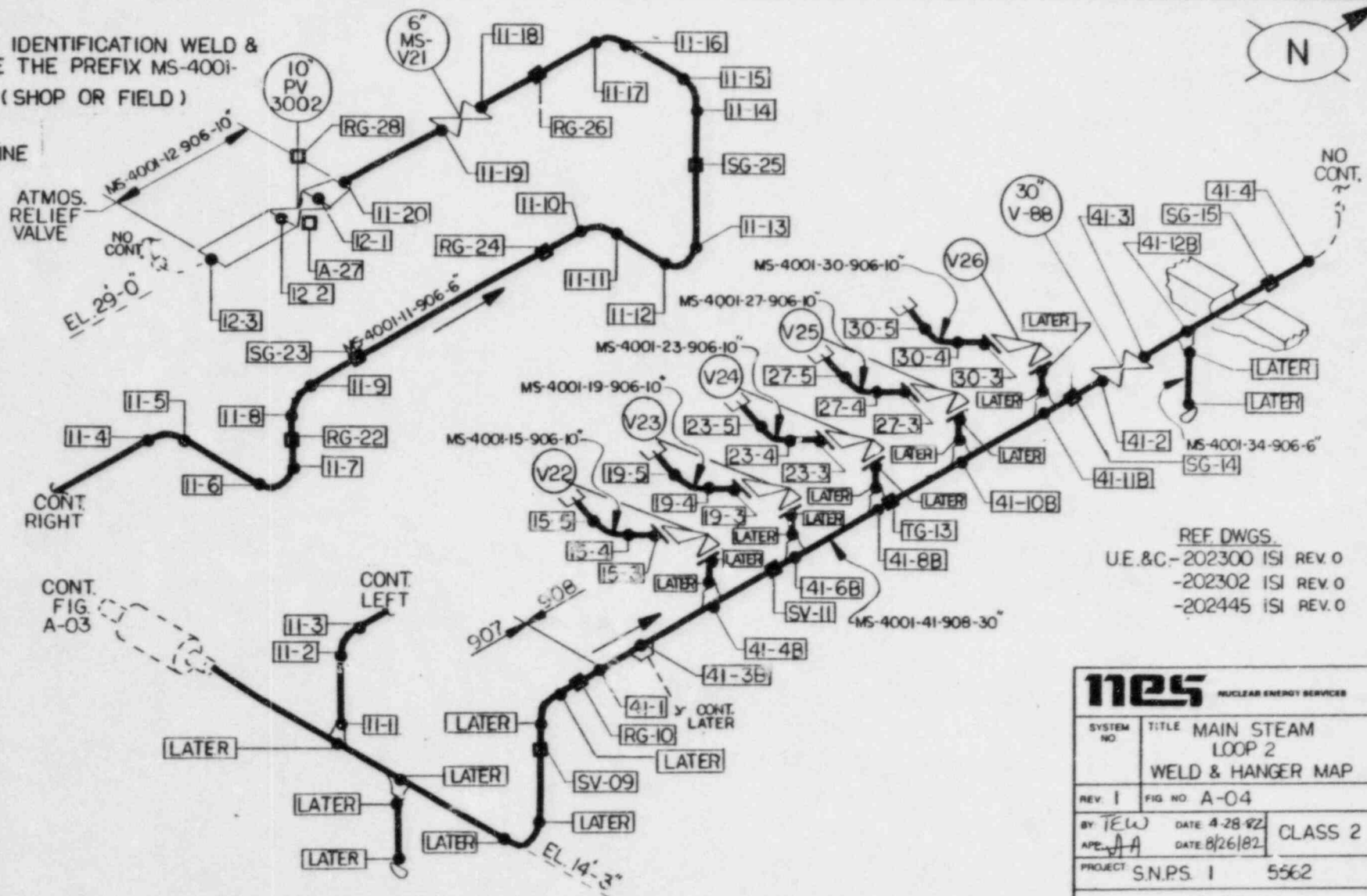
NOTES:

FOR COMPLETE IDENTIFICATION WELD &
HANGERS HAVE THE PREFIX MS-400i-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

~~SECRET~~ - EXEMPT LINE



REF. DWGS.

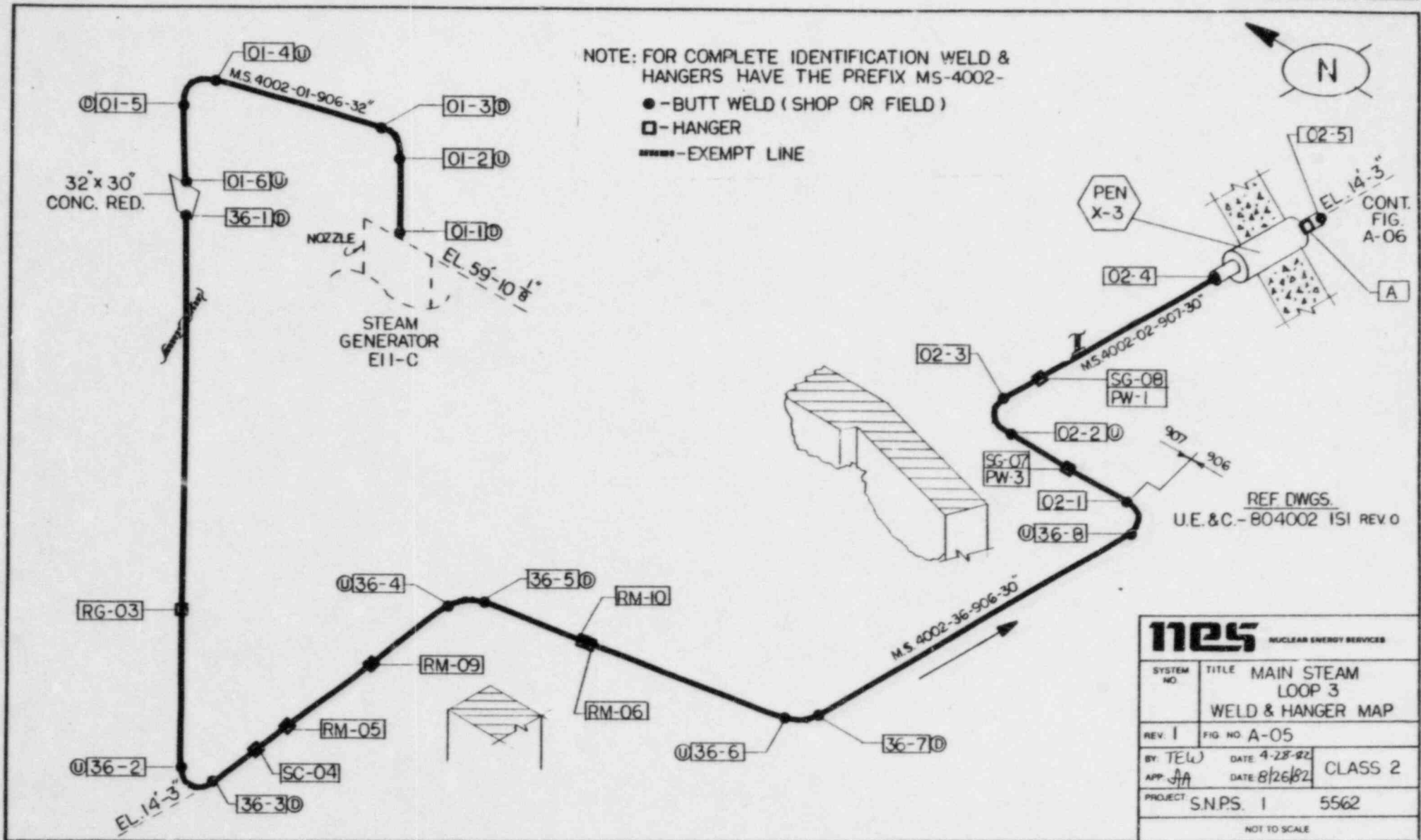
U.E.&C.-202300 ISI REV. 0

-202302 ISI REV. 0

-202445 ISI REV. 0

1125 NUCLEAR ENERGY SERVICES

SYSTEM NO.	TITLE MAIN STEAM LOOP 2 WELD & HANGER MAP	
REV. 1	FIG. NO. A-04	
BY: TEW APP: AA	DATE 4-28-82 DATE 8/26/82	CLASS 2
PROJECT	S.N.P.S. 1 5562	
NOT TO SCALE		

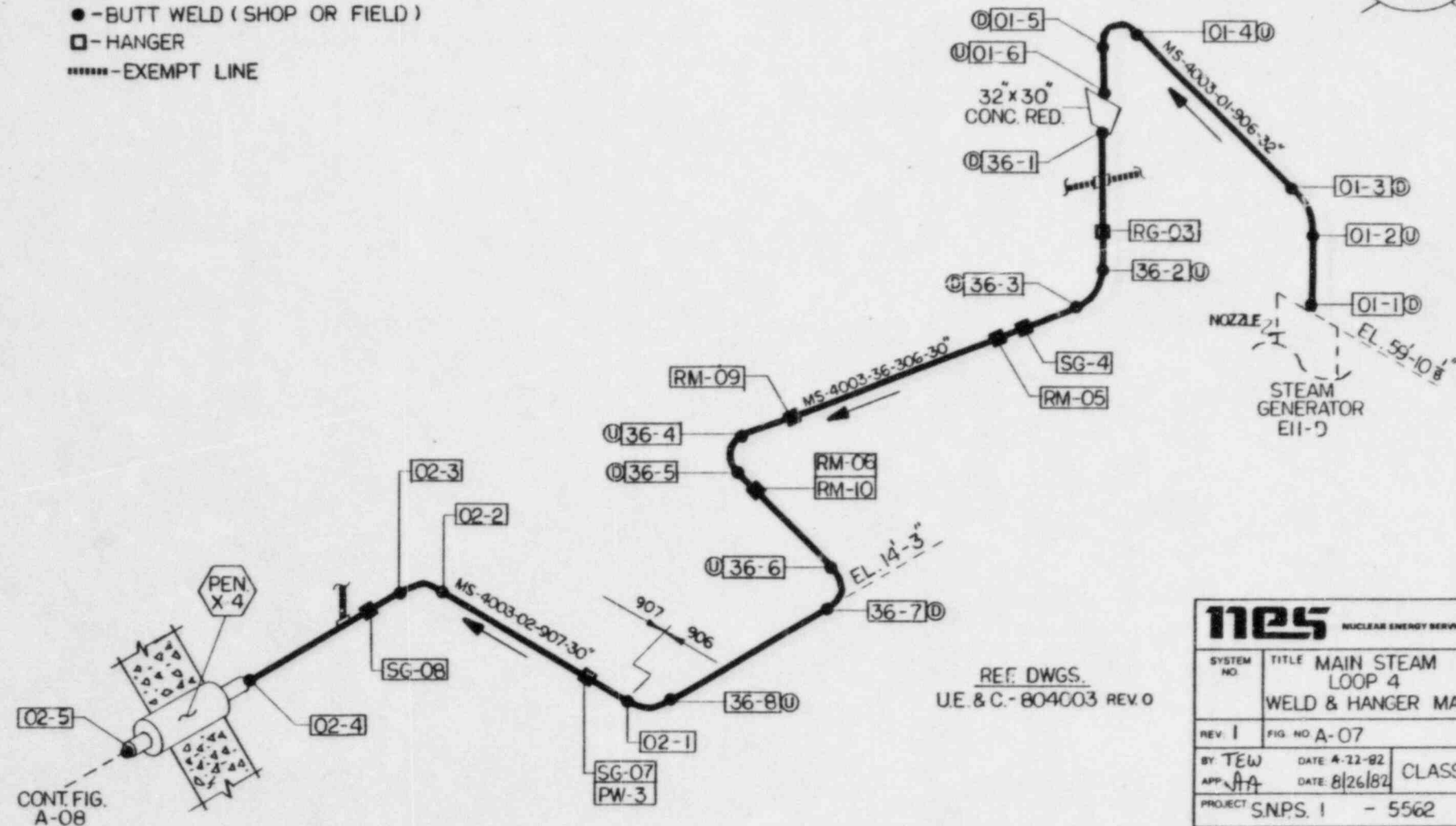


NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX MS.-4003-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



REF. DWGS.
U.E. & C. - 804C03 REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE MAIN STEAM LOOP 4 WELD & HANGER MAP
REV. 1	FIG. NO. A-07
BY: TEW	DATE: 4-22-82
APP: AA	DATE: 8/26/82
PROJECT	SNPS. 1 - 5562
NOT TO SCALE	





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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-01-1	32" Steam Generator Nozzle to Pipe	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-01-1LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-01-2LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-01-2	32" Pipe to Elbow	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-01-3	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-01-3LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-01-4LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-01-4	32" Pipe to Elbow	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-01-5	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-01-5LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A		C5.22	PT	
1-MS-4000-01-6LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A		C5.22	PT	
1-MS-4000-01-6	32" Pipe to Reducer	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-40-1	32" x 30" Reducer to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-40-1LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		C5.22	PT	



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-40-2LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-2	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-3	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-3LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-4LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-4	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-5	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-40-5LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-6LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-6	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-7	30" Elbow to Pipe	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-7LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-8LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-8	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-40-9	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-40-9LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-10LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4000-40-10	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-02-1	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-02-2	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-02-3	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-01							
1-MS-4000-02-4	30" Pipe to Penetration X-1 Process Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		30A6472	N/A	C5.21	PT		
1-MS-4000-02-5	30" Penetration X-1 Process Pipe to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
1-MS-4000-11-1	6" Branch Connection to Pipe	80A6472	NA	C-F	PT		
				C5.11			
1-MS-4000-11-2	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-3	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-4	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-5	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-6	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-11-7	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-8	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-9	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-10	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-11	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-12	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4000-11-13	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-11-14	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-15	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-16	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-17	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-18	6" Pipe to Valve MS-V5	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-19	6" Valve MS-V5 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-11-20	6" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-12-1	6"x10" Reducer to Valve PV-3001	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-12-2	10" Valve PV-3001 to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-12-3	10" Pipe to Elbow	80A6463	SB-10-80-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
LATER	30" Elbow to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe Forging	LATER	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000- 41-1	30" Pipe Forging to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000- 41-3B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
1-MS-4000- 41-4B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
LATER	6" Pipe to Flange (SRV-6)	80A6463	LATER	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-15-3	10" Flange (SRV-V6) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-15-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-15-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4000-41-6B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A		C5.21	PT	
LATER	6" Pipe to Flange (SRV-7)	80A6463	LATER	C-F	UT		
		80A6472	N/A		C5.21	PT	



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-19-3	10" Flange (SRV-V7) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-19-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-19-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-41-8B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V8)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-23-3	10" Flange (SRV-V8) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-23-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-23-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-41-10B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V9)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-27-3	10" Flange (SRV-V9) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-27-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-27-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-41-11B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	30"x6" Sweepolet to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V10)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-30-3	10" Flange (SRV-V10) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-30-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-30-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 1" Reference Drawing No: A-02							
1-MS-4000-41-2	30" Pipe to Valve V-86	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-41-3	30" Valve V-86 to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4000-41-12B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4000-41-4	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-01-1	32" Steam Gen Nozzle to Pipe	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-01-1LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-01-2LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-01-2	32" Pipe to Elbow	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-01-3	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-01-3LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-01-4LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-01-4	32" Pipe to Elbow	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-01-5	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-01-5LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-01-6LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-01-6	32" Pipe to Reducer	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-1	32"x30" Reducer to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-1LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-39-2LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-2	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-3	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-3LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-4LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-4	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-5	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-39-5LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-6LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-6	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-7	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-7LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-8LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-8	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-39-9	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-39-9LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-10LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4001-39-10	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-02-1	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-02-2	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-02-3	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-03							
1-MS-4001-02-4	30" Pipe to Penetration X-2 Process Pipe	80A6463	SB-30-	C-F	UT		
			XX2-CS	C5.21			
		80A6472	N/A		PT		
1-MS-4001-02-4	30" Penetration X-2 Process Pipe to Pipe	80A6463	SB-30-	C-F	UT		
			XX2-CS	C5.21			
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
1-MS-4001-11-1	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-2	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-3	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-4	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-5	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.21			
1-MS-4001-11-6	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-11-7	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-8	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-9	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-10	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-11	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-12	6" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-MS-4001-11-13	6" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-11-14	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-15	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-16	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-17	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-18	6" Pipe to Valve MS-V21	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-19	6" Valve MS-V21 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-11-20	6" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-12-1	6"x10" Reducer to Valve PV-3002	LATER	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-12-2	10" Valve PV-3002 to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-12-3	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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	PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04						
LATER	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe Forging	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-1	30" Pipe Forging to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-3B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
1-MS-4001-41-4B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.21			
LATER	6" Branch Connection to Pipe	30A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: A-04							
LATER	6" Pipe to Flange (SRV-V22)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-15-3	10" Flange (SRV-V22) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-15-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-15-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-6B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V23)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: A-04							
1-MS-4001-19-3	10" Flange (SRV-V23) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-19-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-19-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-8B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V24)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-23-3	10" Flange (SRV-V24) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-23-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4001-23-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4001-41-10B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A		PT		
LATER	6" Pipe to Flange (SRV-V25)	80A6463	LATER	C-F	UT		
		80A6472	N/A		PT		
1-MS-4001-27-3	10" Flange (SRV-V25) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4001-27-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-27-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-11B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V26)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-30-3	10" Flange (SRV-V26) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-30-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-30-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: A-04							
1-MS-4001-41-2	30" Pipe to Valve V-88	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-3	30" Valve V-88 to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4001-41-12B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4001-41-4	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3"							
Reference Drawing No: A-05							
1-MS-4002-01-1	32" Steam Generator Nozzle to Pipe	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-01-1LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-01-2LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-01-2	32" Pipe to Elbow	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-01-3	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-01-3LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-01-4LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 3"							
Reference Drawing No: A-05							
1-MS-4002-01-4	32" Pipe to Elbow	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-01-5	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-01-5LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-01-6LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-01-6	32" Pipe to Reducer	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-1	32"x30" Reducer to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-1LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-05							
1-MS-4002-36-2LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-2	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-3	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-3LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-4LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-4	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-5	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-05							
1-MS-4002-36-5LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-6LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-6	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-7	30" Elbow to Pipe	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-36-7LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-8LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4002-36-8	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-05							
1-MS-4002-02-1	30" Elbow to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-02-2	30" Pipe to Elbow	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-02-3	30" Elbow to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-02-4	30" Pipe to Penetration X-3 Process Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-02-5	30" Penetration X-3 Process Pipe to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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	PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06						
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
1-MS-4002-09-1	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-2	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-3	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-4	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-5	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-6	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06							
1-MS-4002-09-7	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-8	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-9	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-10	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-11	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-12	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-09-13	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06							
1-MS-4002-09-14	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4002-09-15	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4002-09-16	6" Pipe to Valve V35	80A6472	N/A	C-F C5.11	PT		
1-MS-4002-09-17	6" Valve V-35 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4002-09-18	6" Pipe to Reducer	80A6472	N/A	C-F C5.11	PT		
1-MS-4002-10-1	6"x10" Reducer to Valve PV300V	LATER	LATER	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-10-2	10" Valve PV300V to Pipe	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		



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	PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06						
1-MS-4002-10-3	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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	PIPING WELDS - "LOOP -- 3" Reference Drawing No: A-06						
LATER	30" Elbow to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe Forging	80A6463		C-F	UT		
		80A6472	LATER N/A	C5.21	PT		
1-MS-4002- 37-1	30" Pipe Forging to Pipe	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002- 37-3B	30" Pipe to 6" Branch Connection	80A6463	SB-30- XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V36)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.11	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06							
1-MS-4002-13-3	10" Flange (SRV-V36) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-13-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-13-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-37-5B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V37)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-17-3	10" Flange (SRV-V37) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3"							
Reference Drawing No: A-06							
1-MS-4002-17-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-17-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-37-7B	30" Pipe to 6" Branch Connection	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V38)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-21-3	10" Flange (SRV-V38) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-21-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06							
1-MS-4002-21-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-37-9B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V39)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-25-3	10" Flange (SRV-V39) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-25-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-25-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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	PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06						
1-MS-4002-37-10B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F C5.31	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F C5.21	UT		
		80A6472	N/A		PT		
LATER	6" Pipe to Flange (SRV-V40)	80A6463	LATER	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-28-3	10" Flange (SRV-V40) to Pipe	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-28-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-28-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4002-37-2	30" Pipe to Valve V-90	80A6463	SB-30-XX2-CS	C-F C5.21	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: A-06							
1-MS-4002-37-3	30" Valve V-90 to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4002-37-11B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4002-37-4	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-07							
1-MS-4003-01-1	32" Steam Gen. Nozzle to Pipe	80A6472	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-01-1LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-01-2U	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-01-2	32" Pipe to Elbow	80A6463	SB-32-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-01-3	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-01-3LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-01-4LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-07							
1-MS-4003-01-4	32" Pipe to Elbow	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-01-5	32" Elbow to Pipe	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-01-5LD	32" Pipe Long Seam, Downstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-01-6LU	32" Pipe Long Seam, Upstream	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-01-6	32" Pipe to Reducer	80A6463	SB-32-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-36-1	32"x30" Reducer to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-36-1LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-07							
1-MS-4003-36-2LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-2	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-3	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-3LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-4LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-4	30" Pipe to Elbow	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-MS-4003-36-5	30" Elbow to Pipe	80A6463	SB-30-XX1-CS	C-F	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-07							
1-MS-4003-36-5LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-36-6LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-36-6	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-36-7	30" Elbow to Pipe	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-36-7LD	30" Pipe Long Seam, Downstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-36-8LU	30" Pipe Long Seam, Upstream	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.22	PT		
1-MS-4003-36-8	30" Pipe to Elbow	80A6463	SB-30-XXI-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-07							
1-MS-4003-02-1	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-02-2	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-02-3	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-02-4	30" Pipe to Penetration X-4 Process Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-02-5	30" Penetration X-4 Process Pipe to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F C5.31	PT		
1-MS-4003-09-1	6" Branch Connection to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-2	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-3	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-4	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-5	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-6	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-09-7	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-8	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-9	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-10	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-11	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-12	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-MS-4003-09-13	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-09-14	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-09-15	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-09-16	6" Pipe to Valve V-49	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-09-17	6" Valve V-49 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-09-18	6" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-10-1	6"x10" Reducer to Valve PV3004	80A6463	LATER	C-F	UT		
				C5.21			
		80A6472	N/A		PT		
1-MS-4003-10-2	10" Valve PV3004 to Pipe	80A6463	SB-10-080-CS	C-F	UT		
				C5.21			
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-10-3	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
LATER	30" Elbow to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	30" Elbow to Pipe Forging	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-37-1	30" Pipe Forging to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-37-3B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V50)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-13-3	10" Flange (SRV-V50) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4003-13-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4003-13-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	Ut		
		80A6472	N/A		C5.21	PT	
1-MS-4003-37-5B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
					C5.31		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A		C5.21	PT	
LATER	6" Pipe to Flange (SRV-V51)	80A6463	LATER	C-F	UT		
		80A6472	N/A		C5.21	PT	
1-MS-4003-17-5	10" Flange (SRV-V51) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A		C5.21	PT	



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-17-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-17-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-37-7B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V52)	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-21-3	10" Flange (SRV-V52) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-21-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-21-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-37-9B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
LATER	6" Pipe to Flange (SRV-V53)	80A6463	LATER	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-25-3	10" Flange (SRV-V53) to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-25-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-25-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-37-10B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F C5.31	PT		
LATER	6" Branch Connection to Pipe	80A6463	LATER	C-F C5.21	UT		
		80A6472	N/A		PT		
LATER	6" Pipe to Flange (SRV-V54)	80A6463	LATER	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4003-28-3	10" Flange (SRV-V54) to Pipe	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4003-28-4	10" Pipe to Elbow	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4003-28-5	10" Elbow to Pipe	80A6463	SB-10-080-CS	C-F C5.21	UT		
		80A6472	N/A		PT		
1-MS-4003-37-2	30" Pipe to Valve V-92	80A6463	SB-30-XX2-CS	C-F C5.21	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: A-08							
1-MS-4003-37-3	30" Valve V-92 to Pipe	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-MS-4003-37-11B	30" Pipe to 6" Branch Connection	80A6472	N/A	C-F	PT		
				C5.31			
LATER	6" Branch Connection to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
LATER	6" Pipe to Cap	80A6472	N/A	C-F	PT		
				C5.11			
1-MS-4003-37-4	30" Pipe to Elbow	80A6463	SB-30-XX2-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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SUPPORT EXAMINATIONS Reference Drawing No: A-01							
1-MS-4000-RG-03	Pipe Seismic Restraint Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000-SC-04	Pipe Support Constant Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-RM-05	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-RM-09	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-RM-06	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-SG-07 (PW-3)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from whip restraint PW-4000-3
1-MS-4000-SG-08 (PW-1)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from whip restraint PW-4000-1



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SUPPORT EXAMINATIONS Reference Drawing No: A-02							
1-MS-4000- RG-22	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- SG-23	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- RG-24	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- SG-25	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- RG-26	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- A-27	Pipe Anchor	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4000- RG-28	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-02							
1-MS-4000-SV-09	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4000-SV-09-L	Pipe Support, Lugs	80A6472	N/A	C-E C3.40	PT		
1-MS-4003-RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SV-11	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-TG-13	Pipe Restraint Transient Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-14	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-15	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-03							
1-MS-4001-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001-SC-04	Pipe Support Constant Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-RM-05	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-RM-09	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-RM-06	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-SG-08	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001-SG-07	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-04							
1-MS-4001- RG-22	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- SG-23	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- RG-24	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- SG-25	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- RG-26	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- RG-28	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001- A-27	Pipe Anchor	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-04							
1-MS-4001-SV-09	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-SV-09-L	Pipe Support, Lugs	80A6472	N/A	C-E C3.40	PT		
1-MS-4001-RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001-SV-11	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4001-TG-13	Pipe Restraint Transient Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001-SG-14	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4001-SG-15	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-05							
1-MS-4002-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		C3.50
1-MS-4002-SC-04	Pipe Support Constant Spring	80A6474	N/A	C-E	VT-3		C3.50 VT-4 C3.60
1-MS-4002-RM-09	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E	VT-3		C3.50 VT-4 C3.60
1-MS-4002-RM-06	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E	VT-3		C3.50 VT-4 C3.60
1-MS-4002-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E	VT-3		C3.50 VT-4 C3.60
1-MS-4002-RM-05	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E	VT-3		C3.50 VT-4 C3.60
1-MS-4002-SG-07	Pipe Support Guide	80A6474	N/A	C-E	VT-3		C3.50



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SUPPORT EXAMINATIONS Reference Drawing No: A-05							
I-MS-4002-SG-08	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			



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SUPPORT EXAMINATIONS Reference Drawing No: A-06							
1-MS-4002-SG-22	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4002-SG-23	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4002-RM-24	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4002-RG-25	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4002-SG-26	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4002-RG-27	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4002-RG-29	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-06							
1-MS-4002-A-28	Pipe Anchor	80A6474	N/A	C-E	VT-3		
				C3.50			
1-MS-4002-SV-09	Pipe Support Variable Spring	80A6474	N/A	C-E	VT-3		
				C3.50	VT-4		
				C3.60			
1-MS-4002-SV-09-L	Pipe Support, Lugs	80A6472	N/A	C-E	PT		
				C3.40			
1-MS-4002-RG-10	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-MS-4002-SV-11	Pipe Support Variable Spring	80A6474	N/A	C-E	VT-3		
				C3.50	VT-4		
				C3.60			
1-MS-4002-TG-13	Pipe Restraint Transient Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-MS-4002-SG-14	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-MS-4002-SG-15	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			



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SUPPORT EXAMINATIONS Reference Drawing No: A-07							
1-MS-4003-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SC-4	Pipe Support Constant Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-RM-05	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-RM-09	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-RM-10	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-RM-06	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-SG-07	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-08	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-08							
1-MS-4003-SG-22	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-23	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-RM-24	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-RG-25	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-26	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-RG-27	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-RG-29	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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SUPPORT EXAMINATIONS Reference Drawing No: A-08							
1-MS-4003-A-28	Pipe Anchor	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SV-09	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-SV-09-L	Pipe Support, Lugs	80A6472	N/A	C-E C3.40	PT		
1-MS-4003-RG-10	Pipe Restraint Seismic Guide	80A6464	N/A	C-E C3.50	VT-3		
1-MS-4003-SV-11	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-MS-4003-TG-13	Pipe Restraint Transient Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-14	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-4003-SG-15	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



NUCLEAR ENERGY SERVICES, INC.

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PSI PROGRAM PLAN:

FEEDWATER SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineering Dept. Manager	Prince B. Bhandal	1/13/84
Program Standard Manager	L. Soze	1/16/84
Project Manager	Lawrence P. Brumby	1/13/84
Quality Assurance Manager	T. A. Schneider for W. L. G.	1/18/84



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FEEDWATER SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 1 and Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 Components, NES Document 80A8989 delineates PSI requirements for Class 3 components of this system.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Feedwater System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Feedwater System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

ASME Code Class	Description	Ref. P&ID	Basis For Exemption
2	Vent, drain, test, sample, by-pass, fill and instrument connec- tions 4" nominal size or smaller	F-202076/0 & F-202079/7	All component connections, piping & associated valves, and vessels (and their sup- ports) that are 4" nom- inal pipe size & smaller are exempted as per ASME Section XI, IWC-1220(d) S '75 Addenda
2	4" Recirculation line from emergency Feedwater supply for all four loops or smaller	F-202076/0 & F-202079/7	All component connections, piping & associated valves, and vessels (and their sup- ports) that are 4" nominal pipe size & smaller are ex- empted as per ASME Section XI, IWC-1220(d) S '75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Feedwater System.

TABLE - 2.3
SYSTEM CLASSIFICATION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	None	None
2	From the boundary of pipe tunnel to Feedwater pipe chase and up to the Steam Generator for all four loops	F-805003/6 F-805004/5 F-805005/5 F-805006/6 F-202079/7

2.4 CALIBRATION STANDARDS

Table 2.4 lists the Calibration Standards for Ultrasonic examinations scheduled for the Feedwater System. All calibration standards are to be retained on site. The General Reference Text discusses the basis for requirements of these Calibrations Standards.

TABLE 2.4
Referenced Calibration Standards

<u>TITLE</u>	<u>SCHEDULE</u>	<u>MATERIAL</u>
SB-16-100-CS	SCH-100	SA 106 GR B
SB-18-100-CS	SCH-100	SA 106 GR B
SB-18-XX1-CS	SCH-100	SA 105

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Feedwater System that are Class 1 and Class 2.

TABLE 2.5
FW System: Isometric Figures

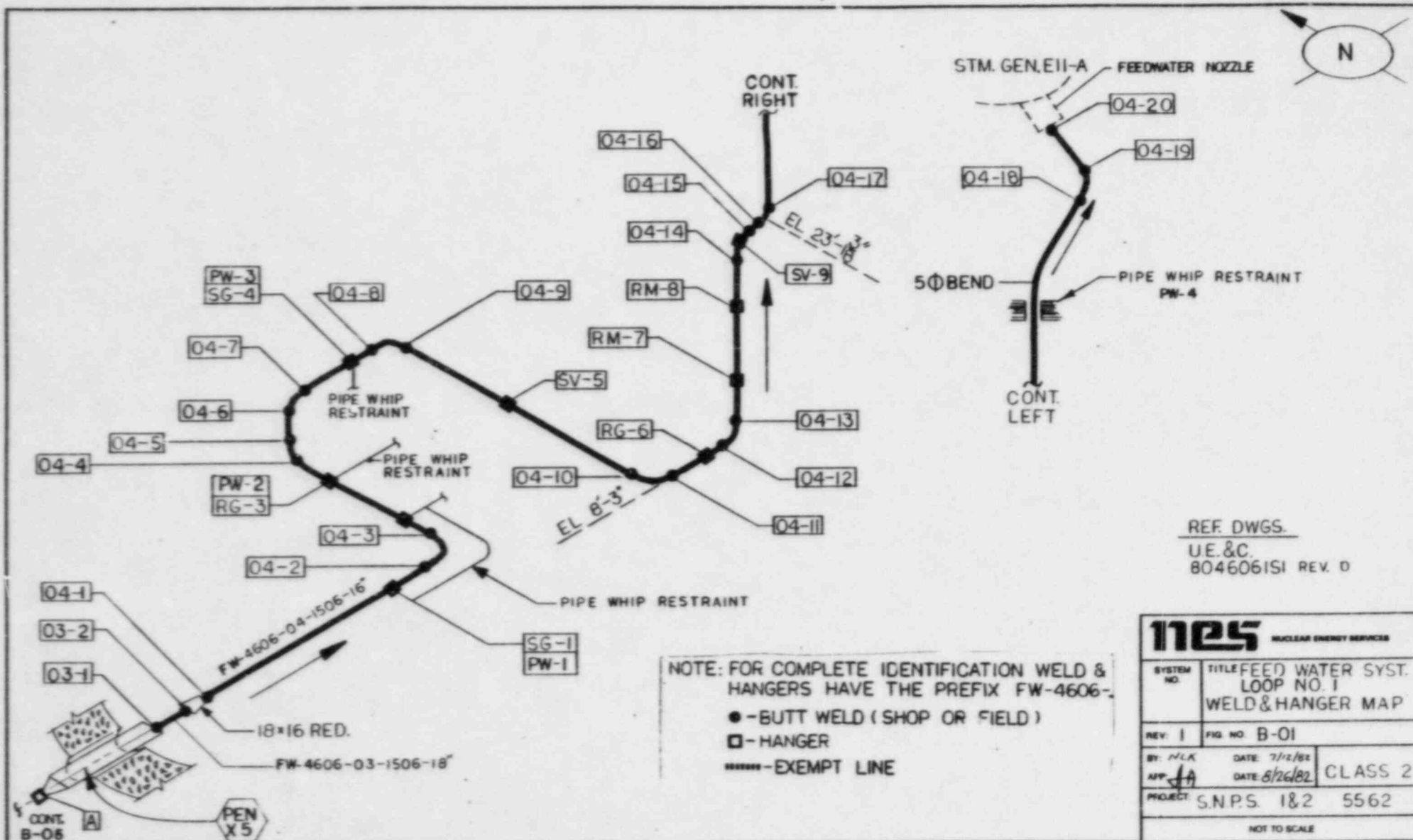
B-01	Rev. 1
B-02	Rev. 1
B-03	Rev. 1
B-04	Rev. 1
B-05	Rev. 0
B-06	Rev. 0
B-07	Rev. 0
B-08	Rev. 0

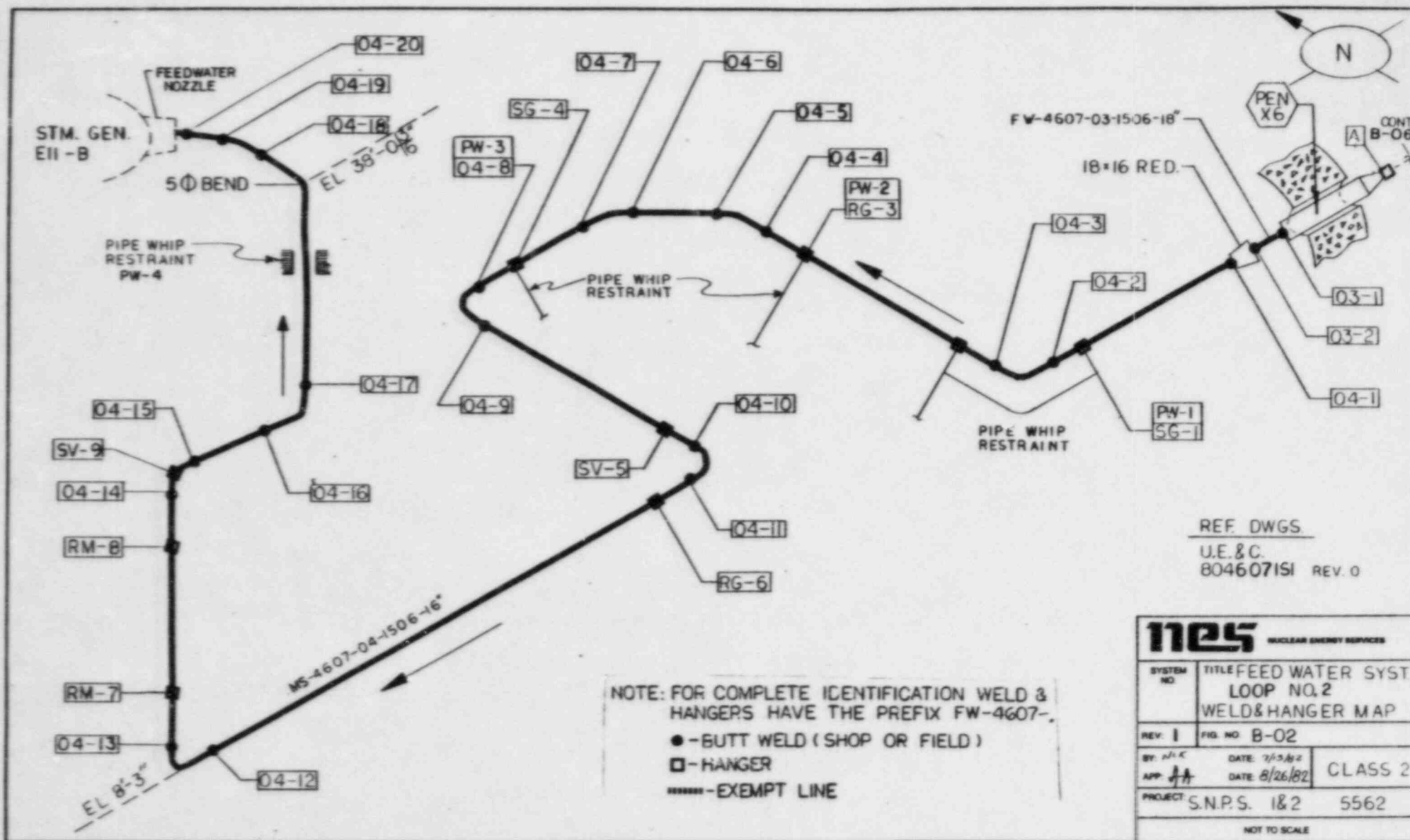
3. PROGRAM PLAN AND SCHEDULE

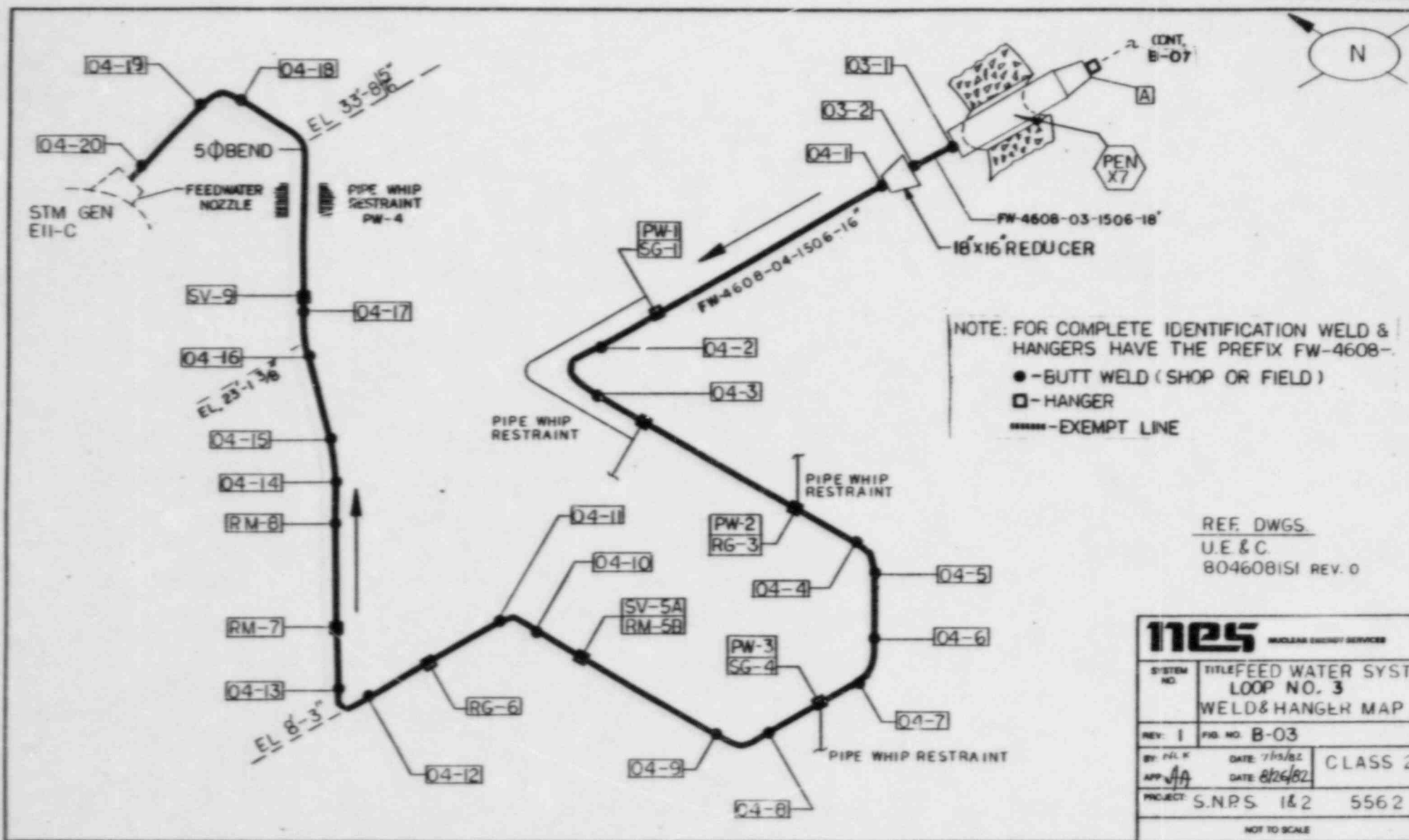
The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

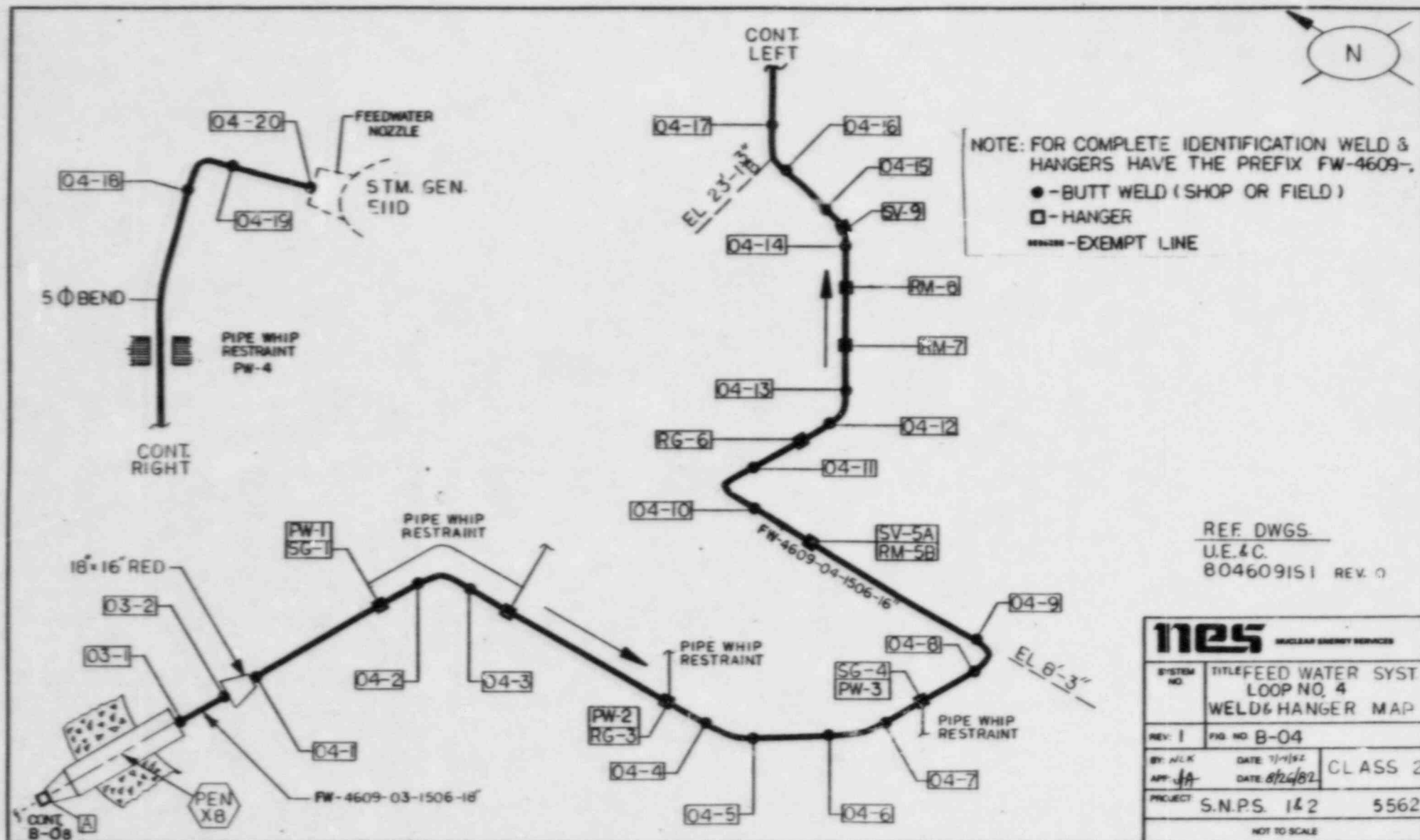
Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hanger and component examinations follow the piping weld examinations.

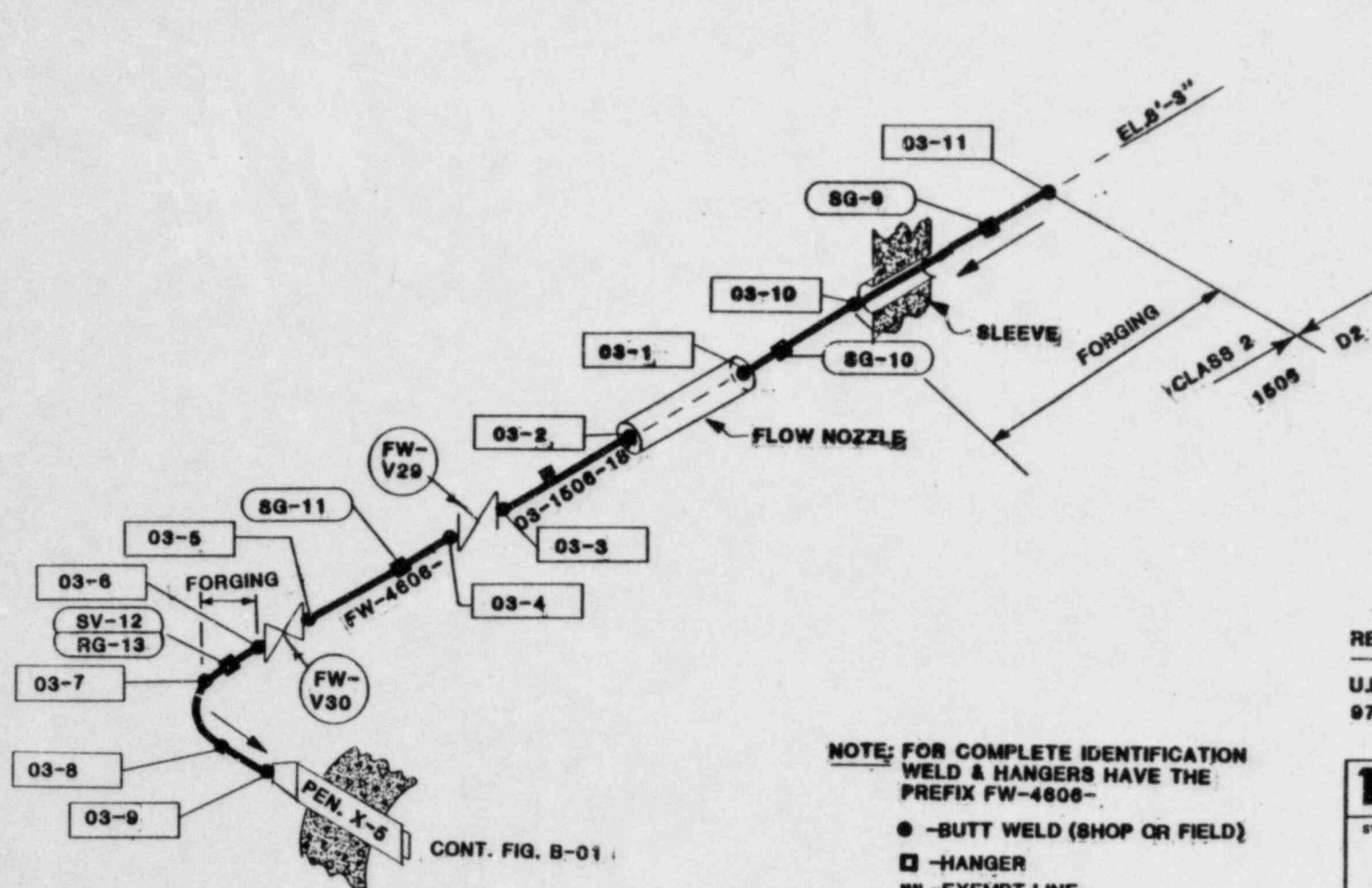
The Class 2 piping welds in the Feedwater System are listed on the schedule sheets as Code Category C-F in accordance with Section XI, 1977 Edition through Summer 1978 Addenda. As discussed in Paragraph 3.4 of General Reference Text, the extent of examination for Class 2 systems have been determined using Section XI, 1974 Edition through Summer 1975 Addenda. Thus the extent of examination of this system's piping weld have been determined using the requirements of Code Category C-G of Section XI, 1974 Edition through Summer 1975 Addenda. This requires the examination of only 50% of the welds at structural discontinuities. 100% of the welds are scheduled for examination in the Reference PSI Program Plan as requested by the owner.









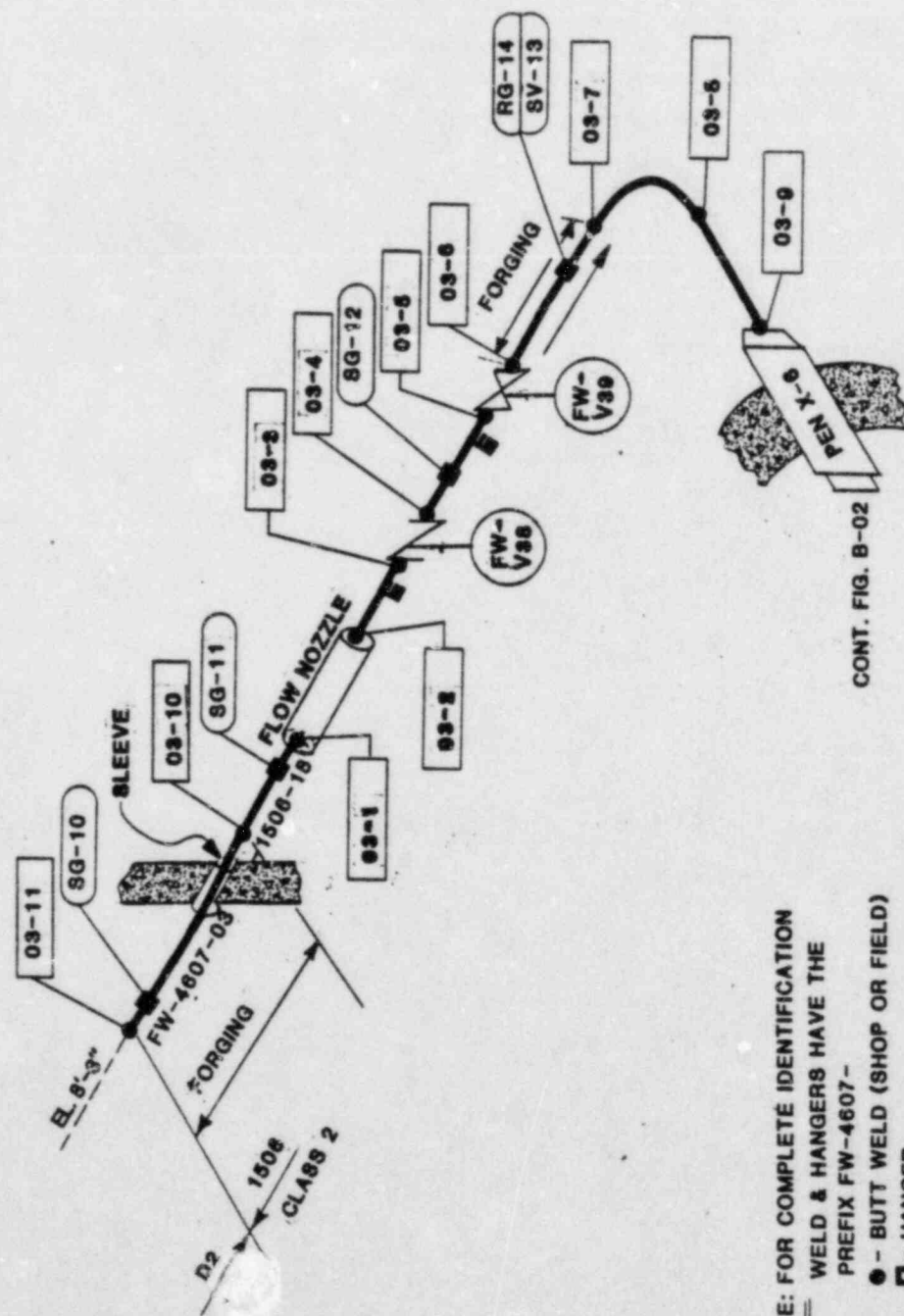
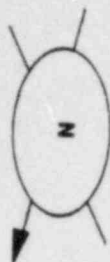


REF. DWG.

U.E.&C.

9763-F-202396ISI REV. 1

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE FEED WATER SYS. LOOP NO. 1
	WELD & HANGER MAP
REV. 0	FIG. NO. B-05
BY: GCEJ	DATE 2/1/84
APP: MK	DATE 2/9/84
PROJECT: 8.N.P.S. 1 5562	CLASS 2
NOT TO SCALE	



NOTE: FOR COMPLETE IDENTIFICATION
WELD & HANGERS HAVE THE
PREFIX FW-4607-
● - BUTT WELD (SHOP OR FIELD)
□ - HANGER
III - EXEMPT LINE

REF. DWG.

U.E.&C.

9763-F-202397ISI REV. 1

Nuclear Energy Services

TITLE FEED WATER SYS.

LOOP NO. 2

WELD & HANGER MAP

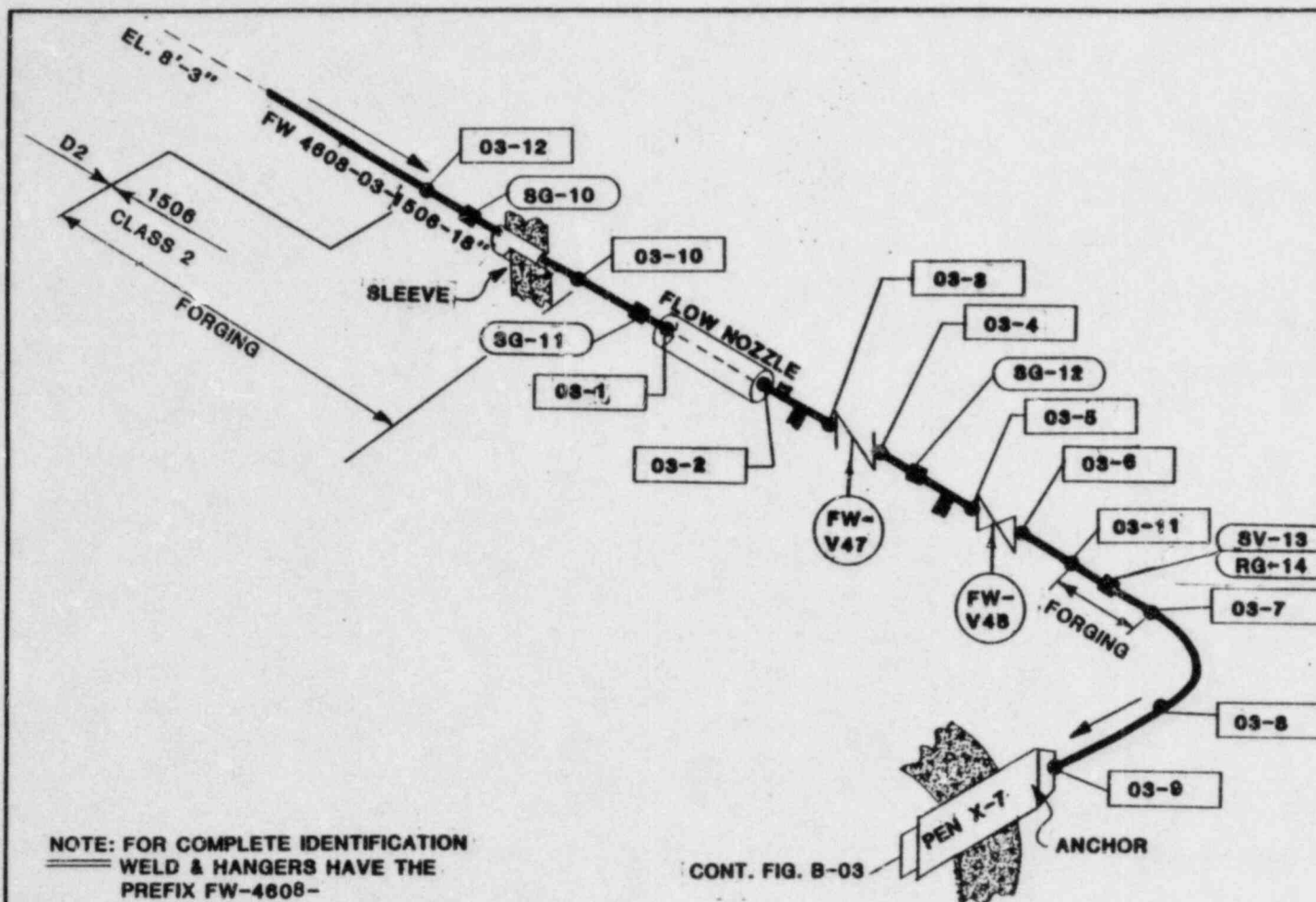
REV. 0 FIG. NO. B-08

BY: B-33 DATE 2/1/84

APP: MK DATE 2/8/84

PROJECT S.N.P.S. 1 5562

NOT TO SCALE



NOTE: FOR COMPLETE IDENTIFICATION
WELD & HANGERS HAVE THE
PREFIX FW-4608-

- - BUTT WELD (SHOP OR FIELD)
- - HANGER
- |||| - EXEMPT LINE

CONT. FIG. B-03

REF. DWG.

U.E.&C.
9763-F-202398ISI REV.1

1125 NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE FEED WATER SYS. LOOP NO.3 WELD & HANGER MAP
REV. 0	FIG. NO. B-07
BY: <i>eaq</i> DATE: 2/1/84	CLASS 2
APP: <i>mk</i> DATE: 2/8/84	
PROJECT S.N.P.S. 1 5562	
NOT TO SCALE	

1105**PROGRAM PLAN AND SCHEDULE**

System: Feedwater
 Document No. 80A8982
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5562-SEABROOK

By: MK Date: 2/89
 App: JA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1"							
Reference Drawing No: B-01							
1-FW-4606-03-1	18" Penetration X-5 Process Pipe To Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-2	18" Pipe To Reducer	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-1	18" x 16" Reducer to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-2	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-3	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-4	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-5	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		

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PIPING WELDS - "LOOP - 1"							
Reference Drawing No: B-01							
1-FW-4606-04-6	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-7	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-8	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-9	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-10	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-11	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4606-04-12	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" Reference Drawing No: B-01							
1-FW-4606-04-13	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-14	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-15	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-16	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-17	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-18	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-04-19	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" Reference Drawing No: B-01							
1-FW-4606-04-20	16" Pipe to Feedwater Nozzle	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" REFERENCE DRAWING NO: B-05							
1-FW-4606-03-11	18" Pipe to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-10	18" Pipe Forging to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-1	18" Pipe to Flow Nozzle	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-2	Flow Nozzle to 18" Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-3	18" Pipe to Valve FW-V29	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-4	18" Valve FW-V29 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-5	18" Pipe to Valve FW-V30	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 1" REFERENCE DRAWING NO: B-05							
1-FW-4606-03-6	18" Valve FW-V30 to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		Examine This Weld
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-7	18" Pipe Forging to Elbow	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-8	18" Elbow to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4606-03-9	18" Pipe to Penetration X-5 Process Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" Reference Drawing No: B-02							
1-FW-4607-03-1	18" Penetration X-6 Process Pipe to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-2	18" Pipe to Reducer	80A6463	SB-18-100-CS	C-F	UT		Examine This Weld
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-1	18" x 16" Reducer to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-2	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-3	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-4	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-5	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		

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PIPING WELDS - "LOOP - 2" Reference Drawing No: B-02							
1-FW-4607-04-6	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-7	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-8	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-9	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-10	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-11	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-12	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2"							
Reference Drawing No: B-02							
1-FW-4607-04-13	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-14	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-15	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-16	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-17	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-18	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-04-19	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 2" Reference Drawing No: B-02							
1-FW-4607-04-20	16" Pipe to Feedwater Nozzle	80A6463	SB-16-100-CS	C-F	UT		Examine This Weld
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2"							
REFERENCE DRAWING NO: B-06							
1-FW-4607-03-11	18" Pipe to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-10	18" Pipe Forging to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-1	18" Pipe to Flow Nozzle	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-2	Flow Nozzle to 18" Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-3	18" Pipe to Valve FW-V38	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-4	18" Valve FW-V38 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-5	18" Pipe to Valve FW-V39	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 2" REFERENCE DRAWING NO: B-06							
1-FW-4607-03-6	18" Valve FW-V39 to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-7	18" Pipe Forging to Elbow	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-8	18" Elbow to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4607-03-9	18" Pipe to Penetration X-6 Process Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



PROGRAM PLAN AND SCHEDULE

System: Feedwater
Document No. 80A8982
Preservice Inspection

5562-SEABROOK

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App: AA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS - "LOOP - 3"							
Reference Drawing No: B-03							
1-FW-4608-03-1	18" Penetration X-7 Process Pipe to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-2	18" Pipe to Reducer	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-1	18" x 16" Reducer to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-2	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-3	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-4	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-5	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: B-03							
1-FW-4608-04-6	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-7	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-8	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-9	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-10	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-11	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-12	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 3" Reference Drawing No: B-03							
1-FW-4608-04-13	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		Examine This Weld
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-14	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-15	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-16	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-17	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-18	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-04-19	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		

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PIPING WELDS - "LOOP - 3" Reference Drawing No: B-03							
1-FW-4608-04-20	16" Pipe to Feedwater Nozzle	80A6463	SB-16-	C-F	UT		
		80A6472	100-CS N/A	C5.21	PT		

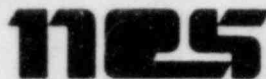
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PIPING WELDS - "LOOP - 3"							
REFERENCE DRAWING NO: B-07							
1-FW-4608-03-12	18" Pipe to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-10	18" Pipe Forging to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-1	18" Pipe to Flow Nozzle	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-2	Flow Nozzle to 18" Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-3	18" Pipe to Valve FW-V47	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-4	18" Valve FW-V47 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-5	18" Pipe to Valve FW-V48	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



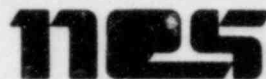
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PIPING WELDS - "LOOP - 3" REFERENCE DRAWING NO: B-07							
1-FW-4608-03-6	18" Valve FW-V48 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-11	18" Pipe Forging to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-7	18" Pipe Forging to Elbow	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-8	18" Elbow to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4608-03-9	18" Pipe to Penetration X-7 Process Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4"							
Reference Drawing No: B-04							
1-FW-4609-03-1	18" Penetration X-8 Process Pipe to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-2	18" Pipe to Reducer	80A6403	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-1	18" x 16" Reducer to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-2	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-3	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-4	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-5	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: B-04							
1-FW-4609-04-6	16" Pipe to Elbow	80A6403	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-7	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-8	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-9	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-10	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-11	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-04-12	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: B-04							
1-FW-4609-04-13	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-14	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-15	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-16	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-17	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-18	16" Pipe to Elbow	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-04-19	16" Elbow to Pipe	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A		PT		



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PIPING WELDS - "LOOP - 4" Reference Drawing No: B-04							
1-FW-4609-04-20	16" Pipe to Feedwater Nozzle	80A6463	SB-16-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		

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PIPING WELDS - "LOOP - 4" REFERENCE DRAWING NO: B-08							
1-FW-4609-03-12	18" Pipe to Pipe Forging	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-10	18" Pipe Forging to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-1	18" Pipe to Flow Nozzle	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-2	Flow Nozzle to 18" Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-3	18" Pipe to Valve FW-V56	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-4	18" Valve FW-V56 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		
1-FW-4609-03-5	18" Pipe to Valve FW-V57	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A	C5.21	PT		



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PIPING WELDS - "LOOP - 4" REFERENCE DRAWING NO: B-08							
1-FW-4609-03-6	18" Valve FW-V57 to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-03-11	18" Pipe to Pipe Forging	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-03-7	18" Pipe Forging to Elbow	80A6463	SB-18-XX1-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-03-8	18" Elbow to Pipe	80A6463	SB-18-100-CS	C-F	UT		
		80A6472	N/A		PT		
1-FW-4609-03-9	18" Pipe to Penetration X-8 Process Pipe	80A6463	SB-18-100-CS	C-F	UT		Examine This Weld
		80A6472	N/A		PT		

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SUPPORT EXAMINATIONS "LOOP - 1" Reference Drawing No: B-01							
1-FW-4606-SG-1 (PW-1)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-1
1-FW-4606-RG-3 (PW-2)	Pipe Restraint Seismic	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-2
1-FW-4606-SG-4 (PW-3)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-3
1-FW-4606-SV-5	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4606-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C-3.50	VT-3		
1-FW-4606-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4606-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4606-SV-9	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		

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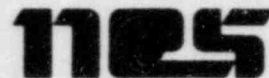
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SUPPORT EXAMINATIONS - "Loop -1" REFERENCE DRAWING NO: B-05							
1-FW-4606-SG-9	Pipe Support Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-FW-4606-SG-10	Pipe Support Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-FW-4606-SG-11	Pipe Support Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-FW-4606-SV-12	Pipe Support Variable Spring	80A6474	N/A	C-E	VT-3 C3.60 VT-4		
1-FW-4606-RG-13	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3 C3.60 VT-4		



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SUPPORT EXAMINATIONS - "LOOP - 2" Reference Drawing No: B-02							
1-FW-4607-SG-1 (PW-1)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-1
1-FW-4607-RG-3 (PW-2)	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-2
1-FW-4607-SG-4 (PW-3)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-3
1-FW-4607-SV-5	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4607-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4607-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4607-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4607-SV-9	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		



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SUPPORT EXAMINATIONS - "Loop -2" REFERENCE DRAWING NO: B-06							
1-FW-4607-SG-10	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4607-SG-11	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4607-SG-12	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4607-RG-14	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4607-SV-13	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		



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SUPPORT EXAMINATIONS - "LOOP - 3" Reference Drawing No: B-03							
1-FW-4608-SG-1 (PW-1)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-1
1-FW-4608-RG-3 (PW-2)	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-2
1-FW-4608-SG-4 (PW-3)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-3
1-FW-4608-SV-5A	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4608-RM-5B	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4608-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4608-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		



System: Feedwater
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PROGRAM PLAN AND SCHEDULE

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App: VIA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS - "LOOP - 3" Reference Drawing No: B-03							
1-FW-4608-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4608-SV-9	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS - "Loop -3" REFERENCE DRAWING NO: B-07							
1-FW-4608-SG-10	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4608-SG-11	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4608-SG-12	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4608-SV-13	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4608-RG-14	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.60	VT-3 VT-4		

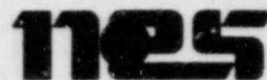
PROGRAM PLAN AND SCHEDULE

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By: AK Date: 2/84
App: AA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE N.	REMARKS
SUPPORT EXAMINATIONS - "LOOP - 4" Reference Drawing No: B-04							
1-FW-4609-SG-1 (PW-1)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-1
1-FW-4609-RG-3 (PW-2)	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-2
1-FW-4609-SG-4 (PW-3)	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Supported from Restraint PW-3
1-FW-4609-SV-5A	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4609-RM-5B	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4609-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4609-RM-7	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS - "LOOP - 4" Reference Drawing No: 1-04							
1-FW-4609-RM-8	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4609-SV-9	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS - "Loop -4" REFERENCE DRAWING NO: B-08							
1-FW-4609-SG-9	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4609-SG-10	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4609-SG-11	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-FW-4609-SV-12	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-FW-4609-RG-13	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.60	VT-3 VT-4		



NUCLEAR ENERGY SERVICES, INC.

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PAGE 1 OF 54

PSI PROGRAM PLAN:

CHEMICAL & VOLUME CONTROL SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineering Dept. Manager	Bruce B. Shepard	1/13/84
Program Standards Manager	L. Sage	1/16/84
Project Manager	Laurence P. Brundage	1/13/84
Quality Assurance Manager	T. R. Schriebe for WLB	1/18/84



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FORM # NES 206 2/80

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CHEMICAL & VOLUME CONTROL SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 1 and Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 Components, NES Document 80A8989 delineates PSI requirements for Class 3 components of this system.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Chemical & Volume Control System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Chemical & Volume Control System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>	<u>Basis For Exemption</u>
1	Component connections, piping and associated valves of 1" nominal size and smaller.	F-805011/7 F-805012/8 F-805013/4 F-805014/6	Piping 1" nominal size and smaller, exempted as per ASME Section XI, Code IWB-1220(b) S '78 Addenda
2	Vent, drain, test, samples, fill by-pass instrument connections 4" nominal size & smaller	F-805011/7 F-805012/8 F-805013/4 F-805014/6	All component connections, piping & associated valves, and vessels (and their supports) that are 4" nominal pipe size and smaller are exempted as per ASME Section XI, IWC-1220(d) S '75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Chemical & Volume Control System.

TABLE - 2.3
SYSTEM CLASSIFICATIONS

ASME Code Class	Description	Ref. P&ID
1	Four 2" loops from Reactor Coolant pump up to check valves CS-V-2, V-18, V-34 & V-50	F-805003/6 F-805004/5 F-805005/5 F-805006/6
1	Two 3" loops from hot leg upto the Regenerative Heat Exchanger	F-805003/6 F-805006/6 F-805011/7
2	8" header from 8"x4" reducer to 8"x6" reducer	F-805012/8 F-805010/5
2	6" suction lines from 8" header upto charging pumps CS-P-2A & CS-P-2B including valves V-217 & V-207	F-805012/8
2	6" header from 8" header to safety injection suction line including valves V-475, V-460 & V-461	F-805010/5

2.4 CALIBRATION STANDARDS

Table 2.4 (Later) lists the Calibration Standards for Ultrasonic examinations scheduled for the Chemical & Volume Control System. All calibration standards are to be retained on site. The General Reference Text discusses the basis for requirements of these Calibration Standards.

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Chemical & Volume Control System that are Class 1 and Class 2.

TABLE - 2.5
CS System: Isometric Figures

F-01	Rev. 1
F-02	Rev. 1
F-03	Rev. 1
F-04	Rev. 1
F-05	Rev. 1
F-06	Rev. 0

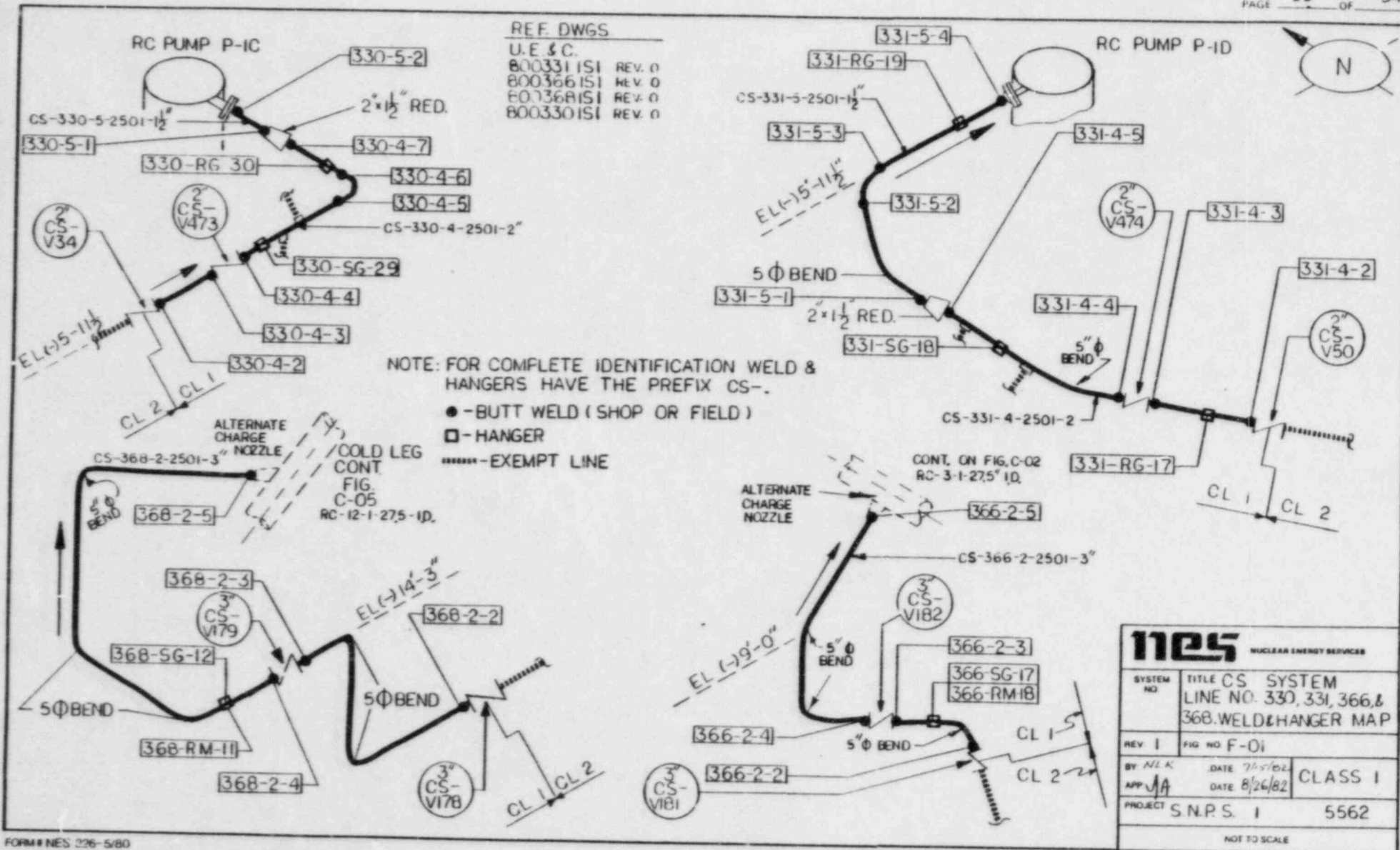
3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.

REF. DWGS

U.E. & C.
 800331 ISI REV. 0
 800366 ISI REV. 0
 800368 ISI REV. 0
 800330 ISI REV. 0



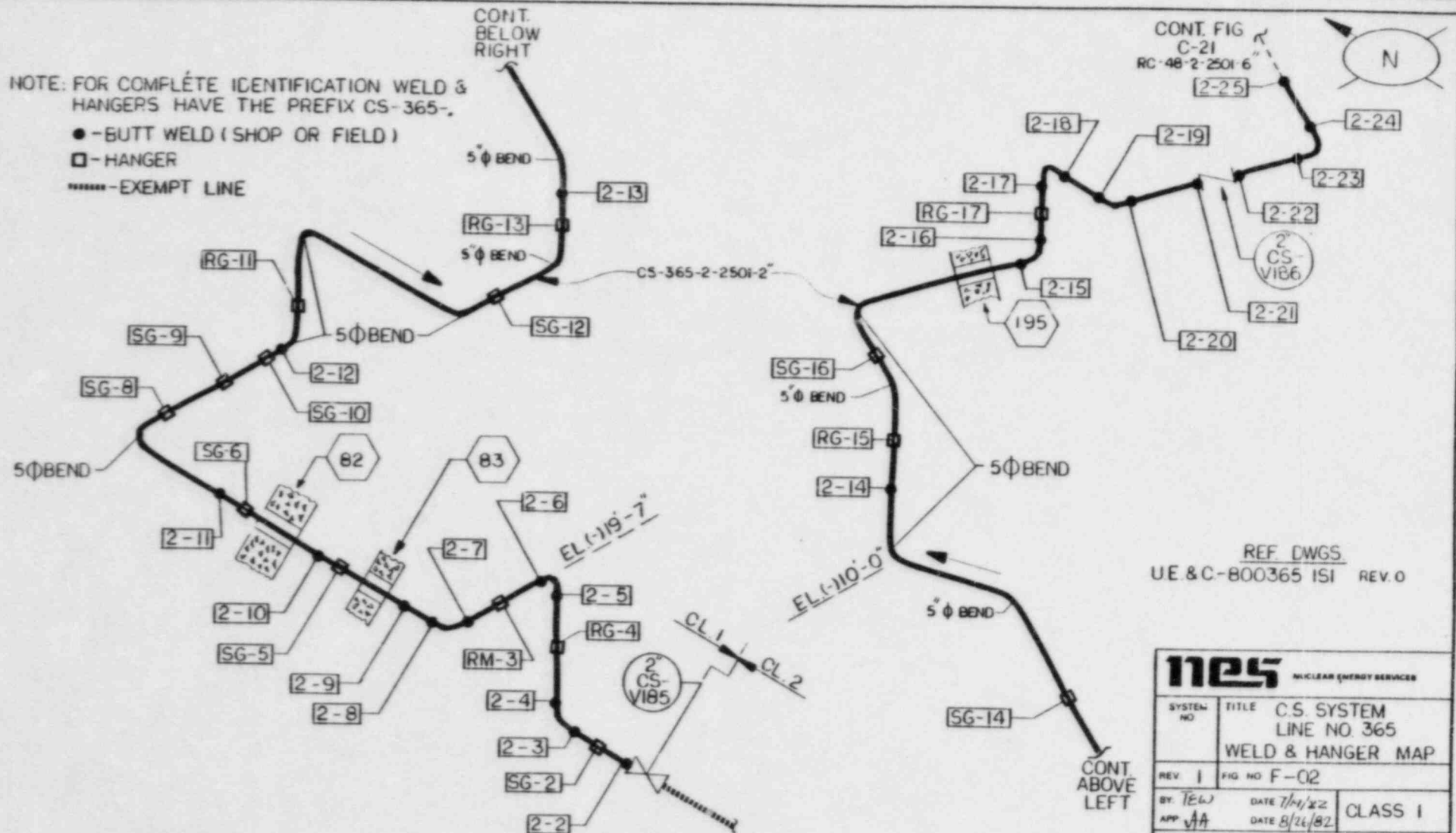
nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE CS SYSTEM LINE NO. 330, 331, 366, & 368. WELD & HANGER MAP
REV. 1	FIG. NO. F-01
BY: N/A	DATE: 7/15/82
APP: J/A	DATE: 8/26/82
PROJECT	S.N.P.S. I 5562
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CS-365-

● - BUTT WELD (SHOP OR FIELD)

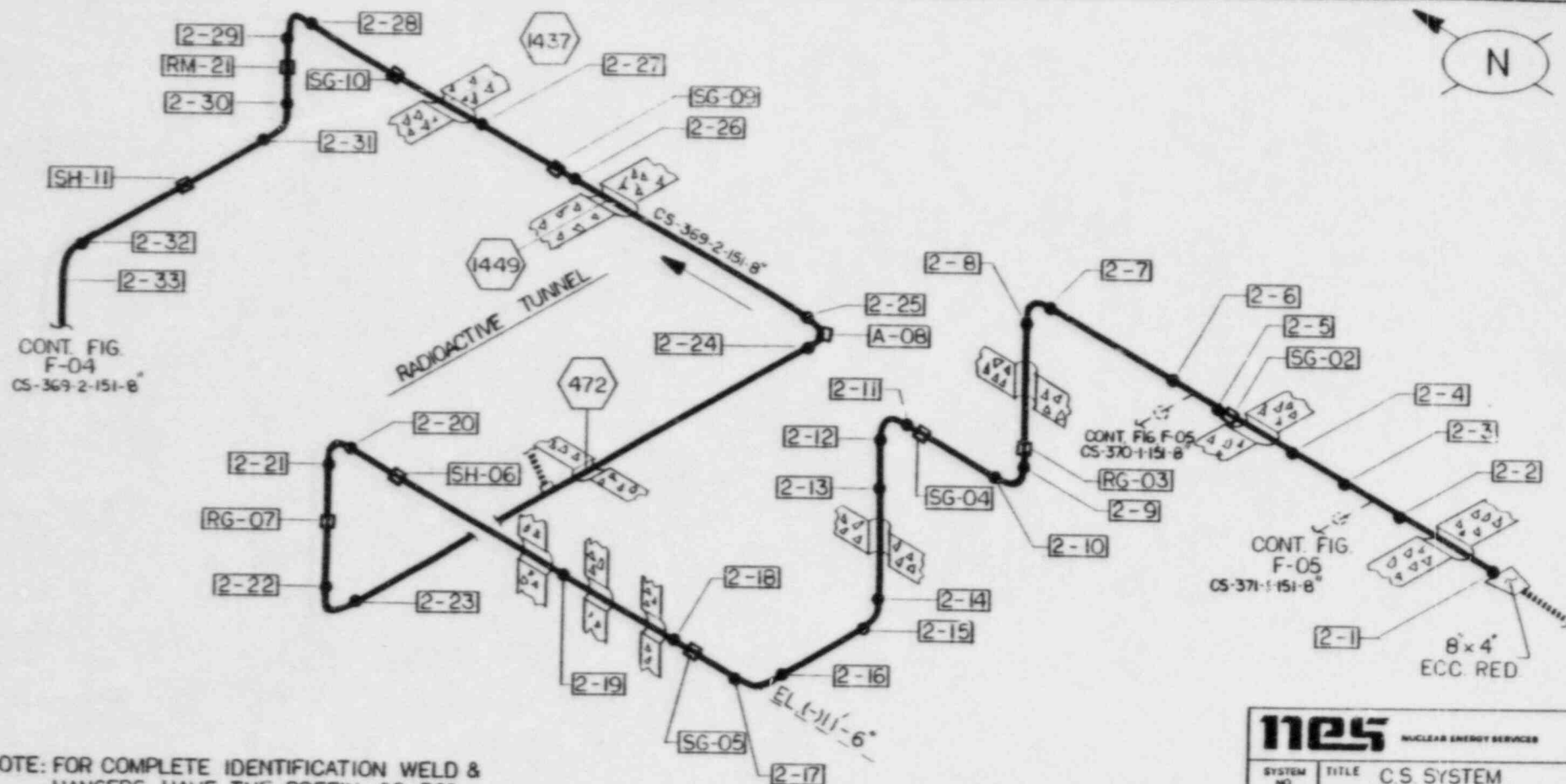
□ - HANGER

----- EXEMPT LINE



REF DWGS
UE & C-800365 ISI REV. 0

nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE C.S. SYSTEM LINE NO. 365 WELD & HANGER MAP
REV. 1	FIG. NO. F-02
BY: TEL	DATE 7/1/82
APP: AA	DATE 8/26/82
PROJECT	SN.PS. 1 5562
NOT TO SCALE	



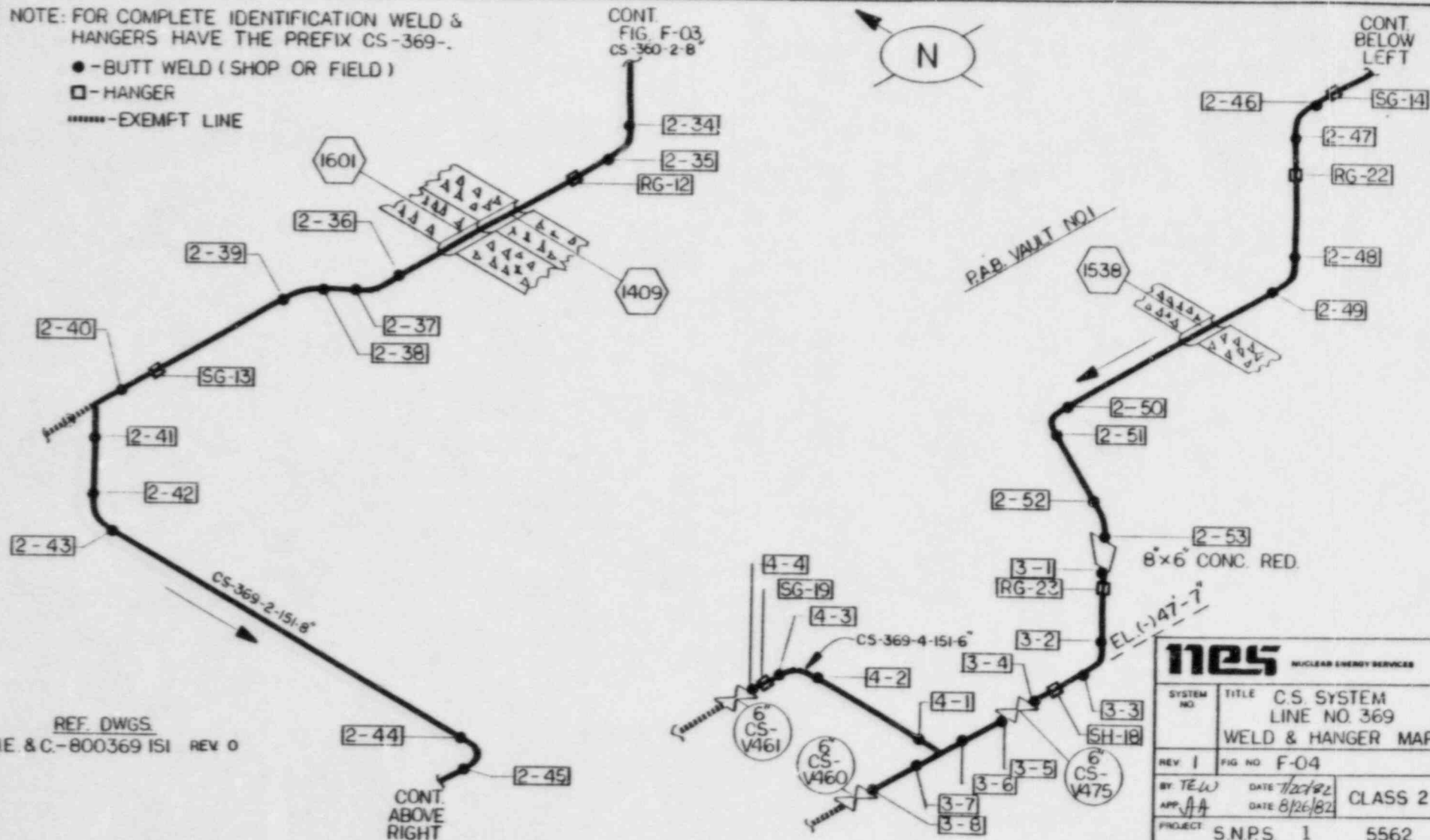
NES NUCLEAR ENERGY SERVICES		
SYSTEM NO.	TITLE C.S. SYSTEM LINE NO. 369 WELD & HANGER MAP	
REV. 1	FIG NO. F-03	
BY: TZW	DATE: 7/14/82	CLASS 2
APP: AA	DATE: 8/26/82	
PROJECT	S.N.P.S. I	5562
NOT TO SCALE		

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CS-369--.

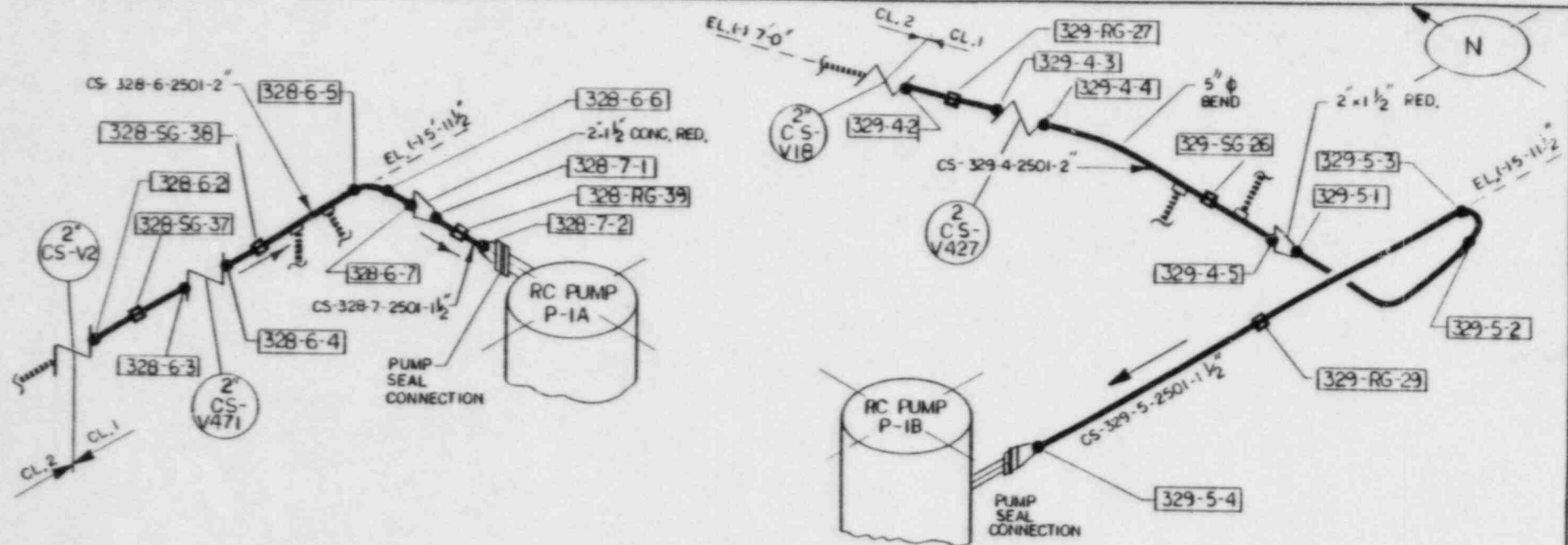
● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

----- EXEMPT LINE



nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE C.S. SYSTEM LINE NO. 369 WELD & HANGER MAP
REV. 1	FIG. NO. F-04
BY: TELW	DATE: 1/27/82
APP: AA	DATE: 8/26/82
PROJECT: SNPS. 1	5562
NOT TO SCALE	



REF. DWG.

UE/C 800328 REV. 0

UE/C 800329 REV. 0

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CS-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

--- EXEMPT LINE

nes NUCLEAR ENERGY SERVICES			
SYSTEM NO.	TITLE CS SYSTEM LINE 328(329) WELD HANGER MAP		
REV. 0	FIG. NO. F-06		
BY JRP	DATE 3/11/03	CLASS 1	
APP	DATE		
PROJECT	S.N.P.S. 1		5562
NOT TO SCALE			



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PROGRAM PLAN AND SCHEDULE

5562-SEABROOK

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-01							
1-CS-331-5-4	1½" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-331-5-3	1½" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-331-5-2	1½" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-331-5-1	1½" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-CS-331-4-5	1½"x2" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-331-4-4	2" Pipe to Valve CS-V474	80A6472	N/A	B-J B9.21	PT		
1-CS-331-4-3	2" Valve CS-V474 to Pipe	80A6472	N/A	B-J B9.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-01							
1-CS-331-4-2	2" Pipe to Valve CS-V50	80A6472	N/A	B-J B9.21	PT		
1-CS-330-5-2	1½" Flange to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-330-5-1	1½" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-CS-330-4-7	1½"x2" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-330-4-6	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-330-4-5	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-330-4-4	2" Pipe to Valve CS-V473	80A6472	N/A	B-J B9.21	PT		



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App: EMP Date: 1/12/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-01							
1-CS-330-4-3	2" Valve CS-V473 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-330-4-2	2" Pipe to Valve CS-V34	80A6472	N/A	B-J B9.21	PT		
1-CS-368-2-5	3" Alternate Charge Nozzle to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-368-2-4	3" Pipe to Valve CS-V179	80A6472	N/A	B-J B9.21	PT		
1-CS-368-2-3	3" Valve CS-V179 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-368-2-2	3" Pipe to Valve CS-V178	80A6472	N/A	B-J B9.21	PT		
1-CS-366-2-5	3" Alternate Charge Nozzle to Pipe	80A6472	N/A	B-J B9.21	PT		



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PROGRAM PLAN AND SCHEDULE

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App: QMP Date: 1/12/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-01							
1-CS-366-2-4	3" Pipe to Valve CS-V182	80A6472	N/A	B-J B9.21	PT		
1-CS-366-2-3	3" Valve CS-V182 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-366-2-2	3" Pipe to Valve CS-V181	80A6472	N/A	B-J B9.21	PT		



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PROGRAM PLAN AND SCHEDULE

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By: MAK Date: 1/11/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-02							
1-CS-365-2-2	2" Valve CS-V185 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-3	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-4	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-5	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-6	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-7	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-8	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		



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PROGRAM PLAN AND SCHEDULE

5562-SEABROOK

By: MK Date: 1/11/94
App: cmf Date: 11/2/94
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-02							
1-CS-365-2-9	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-10	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-11	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-12	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-13	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-14	2" Pipe to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-15	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		



System: Chemical & Volume Control
Document No. 80A8986
Preservice Inspection

PROGRAM PLAN AND SCHEDULE

5562-SEABROOK

By: ML Date: 1/11/94
App: CMR Date: 1/12/94
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-02							
1-CS-365-2-16	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-17	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-18	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-19	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-20	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-21	2" Pipe to Valve CS-V186	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-22	2" Valve CS-V186 to Pipe	80A6472	N/A	B-J B9.21	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: F-02							
1-CS-365-2-23	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-24	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-365-2-25	2" Pipe to Branch Connection	80A6472	N/A	B-J B9.21	PT		



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PROGRAM PLAN AND SCHEDULE

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PIPING WELDS Reference Drawing No: F-03							
1-CS-369-2-1	4"x8" Reducer to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-2	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-3	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-4	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-5	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-6	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-7	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-03							
1-CS-369-2-8	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-9	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-10	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-11	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-12	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-13	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-14	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-03							
1-CS-369-2-15	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-16	8" Pipe to Elbow	180A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-17	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-18	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-19	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-20	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-21	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-03							
1-CS-369-2-22	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-23	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-24	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-25	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-26	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-27	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-28	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-03							
1-CS-369-2-29	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-30	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-31	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-32	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-33	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELD Reference Drawing No: F-04							
1-CS-369-2-34	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-35	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-36	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-37	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-38	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-39	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-40	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-04							
1-CS-369-2-41	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-42	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-43	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-44	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-45	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-46	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-47	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-04							
1-CS-369-2-48	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-49	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-50	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-51	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-52	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-2-53	8" Elbow to Reducer	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-369-3-1	8"x6" Reducer to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-04							
1-CS-369-3-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-4	8" Pipe to Valve CS-V475	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-5	6" Valve CS-V475 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-6	6" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-7	6" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CS-369-3-8	6" Pipe to Valve CS-V460	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: F-04							
1-CS-369- 4-4	6" Valve CS-V461 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CS-369- 4-3	6" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CS-369- 4-2	6" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CS-369- 4-1	6" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Reference Drawing No: F-05							
1-CS-370-3-9	6" Flange to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-8	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-7	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-6	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-5	6" Elbow to Flange	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-4	6" Flange to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-3	6" Pipe to Valve CS-V207	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-05							
1-CS-370-3-2	6" Valve CS-V207 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-3-1	6" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-1-6	6"x8" Reducer to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-1-5	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-1-4	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-1-3	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-370-1-2	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-05							
1-CS-370-1-1	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-1	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-2	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-3	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-4	8" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-5	8" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-1-6	8" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-05							
1-CS-371-3-1	8"x6" Reducer to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-2	6" Pipe to Valve CS-V217	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-3	6" Valve CS-V217 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-4	6" Pipe to Flange	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-5	6" Flange to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-6	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-7	6" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-05							
1-CS-371-3-8	6" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CS-371-3-9	6" Pipe to Flange	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Reference Drawing No: F-06							
1-CS-329-4-2	2" Valve CS-V18 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-329-4-3	2" Pipe to Valve CS-V472	80A6472	N/A	B-J B9.21	PT		
1-CS-329-4-4	2" Valve CS-V472 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-329-4-5	2" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		
1-CS-329-5-1	2"x1½" Reducer to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-329-5-2	1½" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-329-5-3	1½" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: F-06							
1-CS-329-5-4	1½" Pipe to Flange	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-2	2" Valve CS-V2 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-3	2" Pipe to Valve CS-V471	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-4	2" Valve CS-V471 to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-5	2" Pipe to Elbow	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-6	2" Elbow to Pipe	80A6472	N/A	B-J B9.21	PT		
1-CS-328-6-7	2" Pipe to Reducer	80A6472	N/A	B-J B9.21	PT		



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PIPING WELDS Reference Drawing No: F-06							
1-CS-328-7-1	2"x1½" Reducer to Pipe	80A6472	N/A	B-J	PT	B9.21	
1-CS-328-7-2	1½" Pipe to Flange	80A6472	N/A	B-J	PT	B9.21	



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SUPPORT EXAMINATIONS Reference Drawing No: F-01							
1-CS-330-SG-29	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-330-RG-30	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-331-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-331-SG-18	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-331-RG-19	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-366-SG-17	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-366-RM-18	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3	B11.10 VT-4	



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SUPPORT EXAMINATIONS Reference Drawing No: F-01							
1-CS-368-RM-11	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2 B11.10	VT-3 VT-4		
1-CS-368-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2 B11.10	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-02							
1-CS-365-SG-2	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-CS-365-RG-4	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-CS-365-RM-3	Pipe Restraint Seismic Snubber	80A6474	N/A	B-K-2	VT-3 B11.10 VT-4		
1-CS-365-SG-5	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-CS-365-SG-6	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-CS-365-SG-8	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		
1-CS-365-SG-9	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3 B11.10		



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By: mk Date: 1/4/84
App: EMP Date: 1/2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-02							
1-CS-365-SG-10	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-RG-11	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-SG-12	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-RG-13	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-SG-14	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-RG-15	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-SG-16	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-365-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-03							
1-CS-369-SG-02	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-SG-04	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-SG-05	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-SH-06	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-RG-07	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369-A-08	Pipe Support Anchor	80A6474	N/A	C-E C3.50	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-03							
1-CS-369-SG-09	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-CS-369-SG-10	Pipe Support Guide	80A6474	N/A	C-E	VT-3		
				C3.50			
1-CS-369-RM-21	Pipe Restraint Seismic Snubber	80A6474	N/A	C-E	VT-3		
				C3.60	VT-4		
1-CS-369-SH-11	Pipe Support Strut	80A6474	N/A	C-E	VT-3		
				C3.50			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-04							
1-CS-369- RG-12	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- SG-13	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- SG-14	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- RG-22	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- RG-23	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- SH-18	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CS-369- SG-19	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-05							
1-MS-371-SG-03	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-MS-371-RG-05	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CS-371-SV-04	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-MS-371-RG-06	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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By: mk Date: 1/11/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: F-06							
1-CS-329- RG-27	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-329- SG-28	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-329- RG-29	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-328 SG-37	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-328 SG-38	Pipe Support Guide	80A6474	N/A	B-K-2	VT-3	B11.10	
1-CS-328- RG-39	Pipe Restraint Seismic Guide	80A6474	N/A	B-K-2	VT-3	B11.10	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
COMPONENT EXAMINATIONS Reference Drawing No: F-01							
1-CS-330-5-V473-B	2" Valve CS-V473 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-330-5-V34-B	2" Valve CS-V34 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-331-4-V474-B	2" Valve CS-V474 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-331-4-V50-B	2" Valve CS-V50 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-366-2-V181-B	3" Valve CS-V181 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-366-2-V182-B	3" Valve CS-V182 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-368-2-V178-B	3" Valve CS-V178 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
COMPONENT EXAMINATIONS Reference Drawing No: F-01, F-02							
1-CS-368-2-V179-B	3" Valve CS-V179 Bolting	80A6474	N/A	B-G-2	VT-1	B7.70	
1-CS-330-5-P-1C-B	Pump P-1C Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-CS-331-5-P-1D-B	Pump P-1D Flange Bolting	80A6474	N/A	B-G-2	VT-1	B7.50	
1-CS-365-2-V185-B	2" Valve CS-V185 Bolting	80A6474	N/A	B-K-2	VT-1	B7.70	
1-CS-365-2-V186-B	2" Valve CS-V186 Bolting	80A6474	N/A	B-K-2	VT-1	B7.70	



NUCLEAR ENERGY SERVICES, INC.

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PSI PROGRAM PLAN:

CONTAINMENT SPRAY SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineering Dept. Manager	James B. Beva	1/13/84
Program Standards Manager	L. Sage	1/16/84
Project Manager	Thomas P. Brundage	1/13/84
Quality Assurance Manager	T.A. Schneider for W.S.D.	1/18/84

REVISION LOG

DOCUMENT NO. 80A.8987

NUCLEAR ENERGY SERVICES, INC.

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CONTAINMENT SPRAY SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 Components, NES Document 80A8989 delineates PSI requirements for Class 3 components of this System.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Containment Spray System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Containment Spray System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

ASME Code Class	Description	Ref. P&ID	Basis For Exemption
2	All pipe vents, drains test, sample, fill, by- pass and instrument con- nections 4" nominal size or smaller.	F-805023/5	All component connections, piping & associated valves (and their supports) that are 4" nominal pipe size & smaller are ex- empted as per ASME Sect- ion XI, IWC-1220(d) S '75 Addenda
2	6" spray ring from the valves CBS-V19 and CBS- V13 onwards.	F-805023/5	Components in systems where both the design pressure and temp. are equal to or less than 275 PSIG and 200°F re- spectively, are exempted per IWC-1220(a) S '75 Addenda.
2	14" lines from refueling water storage tank upto valves CBS-V2 and CBS- V5.	F-805023/5	Components in systems where both the design pressure and temp. are equal to or less than 275 PSIG and 200°F re- spectively, are exempted per IWC-1220(a) S '75 Addenda.
2	6" line from refueling water storage tank upto valves CBS-V38 and CBS- V43.	F-805023/5	Components in systems where both the design pressure and temp. are equal to or less than 275 PSIG and 200°F re- spectively, are exempted per IWC-1220(a) S '75 Addenda.

TABLE - 2.1 (Continued)
SYSTEM EXEMPTION

ASME Code <u>Class</u>	<u>Description</u>	<u>Ref. P&ID</u>	<u>Basis For Exemption</u>
2	8" line from spray line to the Safety Injection pumps SI-P-6A & 6B.	F-805023/5 F-805010/5	Components in systems where both the design pressure and temp. are equal to or less than 275 PSIG and 200°F re- spectively, are exempted per IWC-1220(a) S '75 Addenda.
2	8" line from refueling water storage tank upto charging pumps CS-P-2A & 2B.	F-805023/5 F-805010/5	Components in systems where both the design pressure and temp. are equal to or less than 275 PSIG and 200°F re- spectively, are exempted per IWC-1220(a) S '75 Addenda.

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Containment Spray System.

TABLE - 2.3
SYSTEM CLASSIFICATION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	None	None
2	Two loops from containment recirculation sumps through containment spray pump through containment spray heat exchanger up to valve CBS-V19 inside containment structure.	F-805023/5

2.4 CALIBRATION STANDARDS

Table 2.4 (Later) lists the Calibration Standards for Ultrasonic examinations scheduled for the Containment Spray System. All Calibration Standards are to be retained on site. The General Reference text discusses the basis for requirement of these Calibration Standards.

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 show the identification and location of components for the Containment Spray System that are Class 1 and Class 2.



TABLE - 2.5

CBS System: Isometric Figures

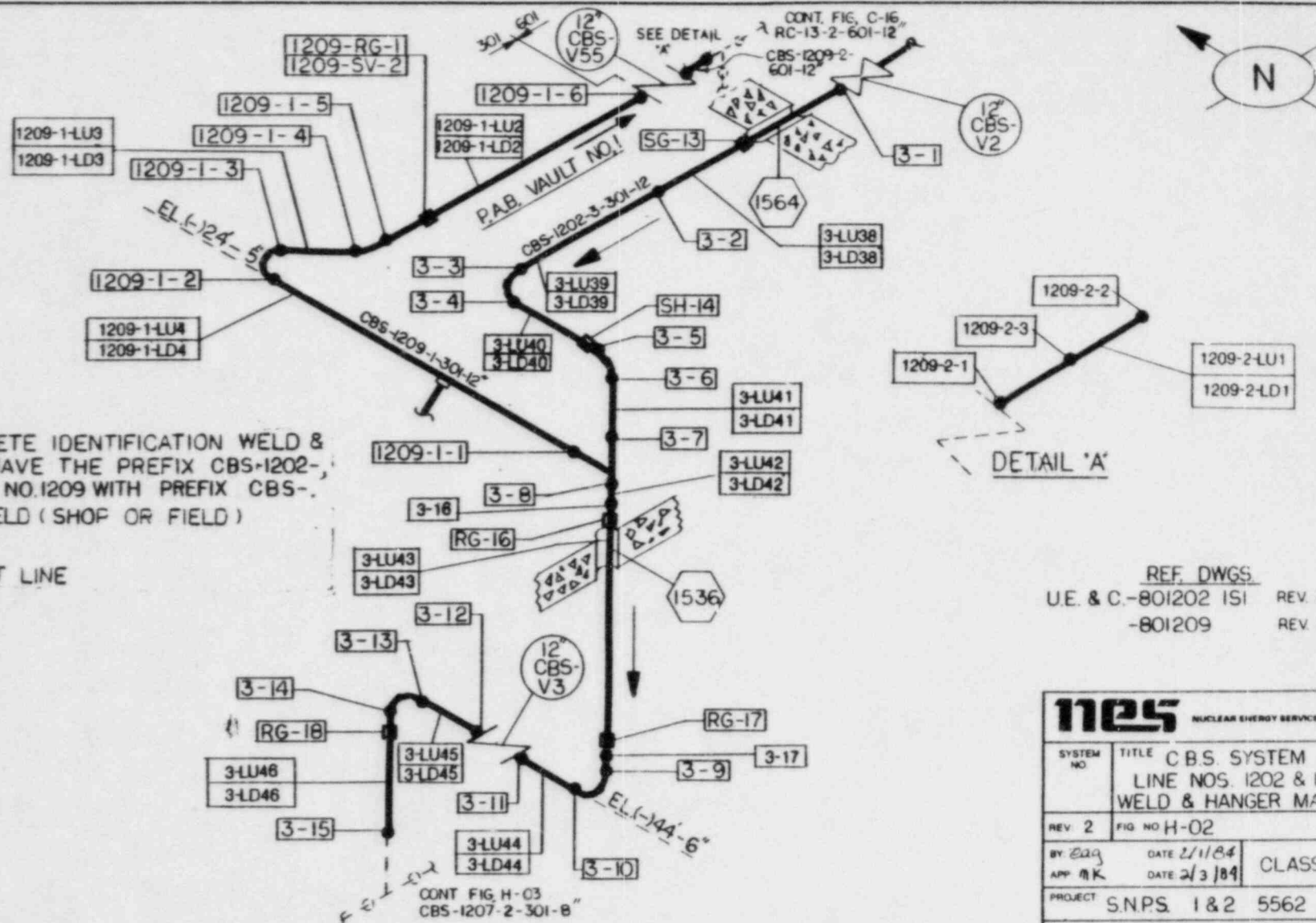
H-01	Rev. 2
H-02	Rev. 2
H-03	Rev. 2
H-04	Rev. 2
H-05	Rev. 2
H-06	Rev. 2
H-07	Rev. 1
H-08	Rev. 1
H-09	Rev. 1

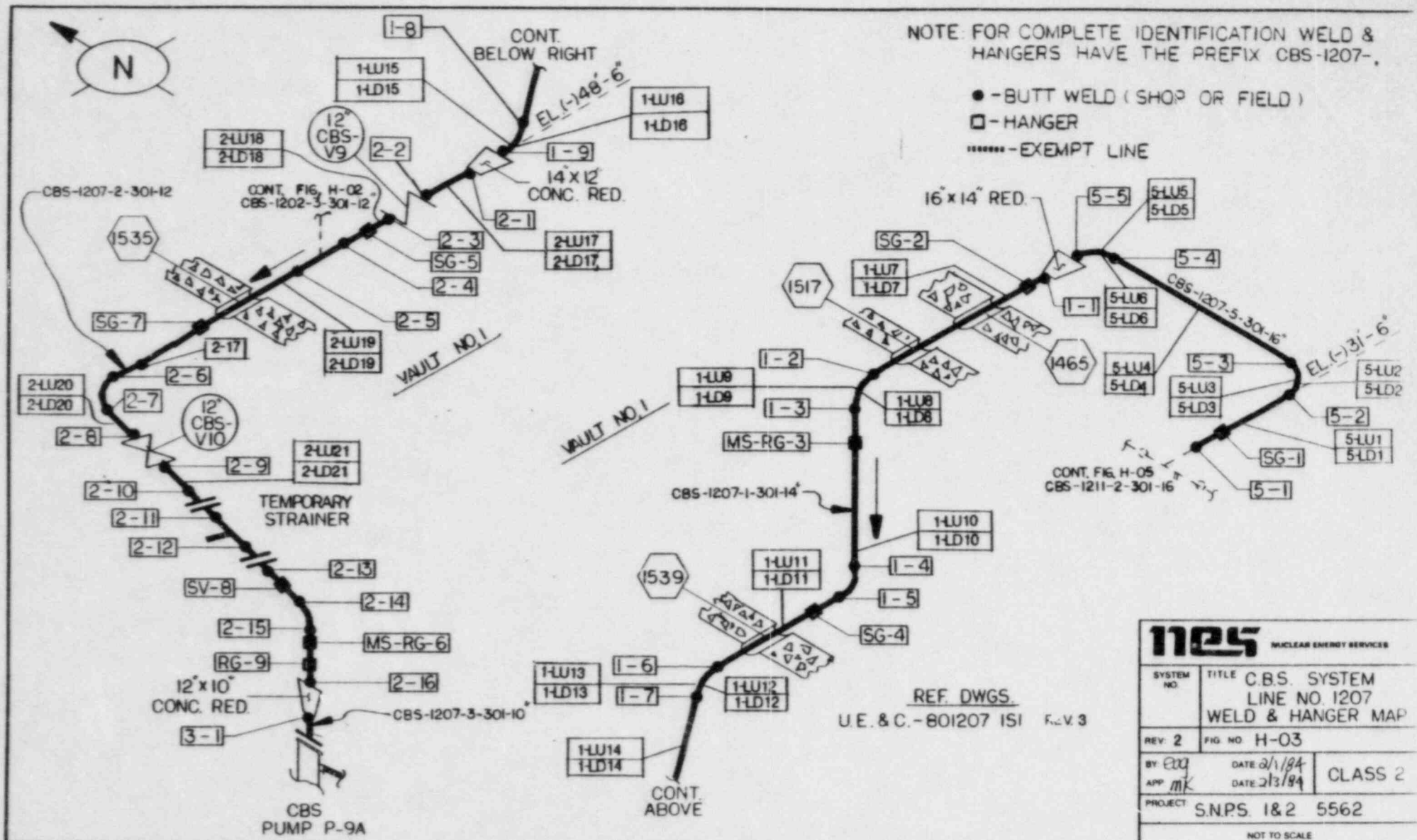
3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Tables are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.

The Class 2 piping welds in the Containment Spray system are listed on the schedule sheets as Code Category C-F in accordance with Section XI, 1977 Edition through Summer 1978 Addenda. As discussed in paragraph 3.4 of General Reference Text, the extent of examination for Class 2 systems have been determined using Section XI, 1974 Edition through Summer 1975 Addenda. Thus the extent of examination of this system's piping weld have been determined using the requirements of Code Category C-G of Section XI, 1974 Edition through Summer 1975 Addenda. This requires the examination of only 50% of the welds at structural discontinuities. 100% of the welds are scheduled for examination in the Reference PSI Program Plan as requested by the owner.



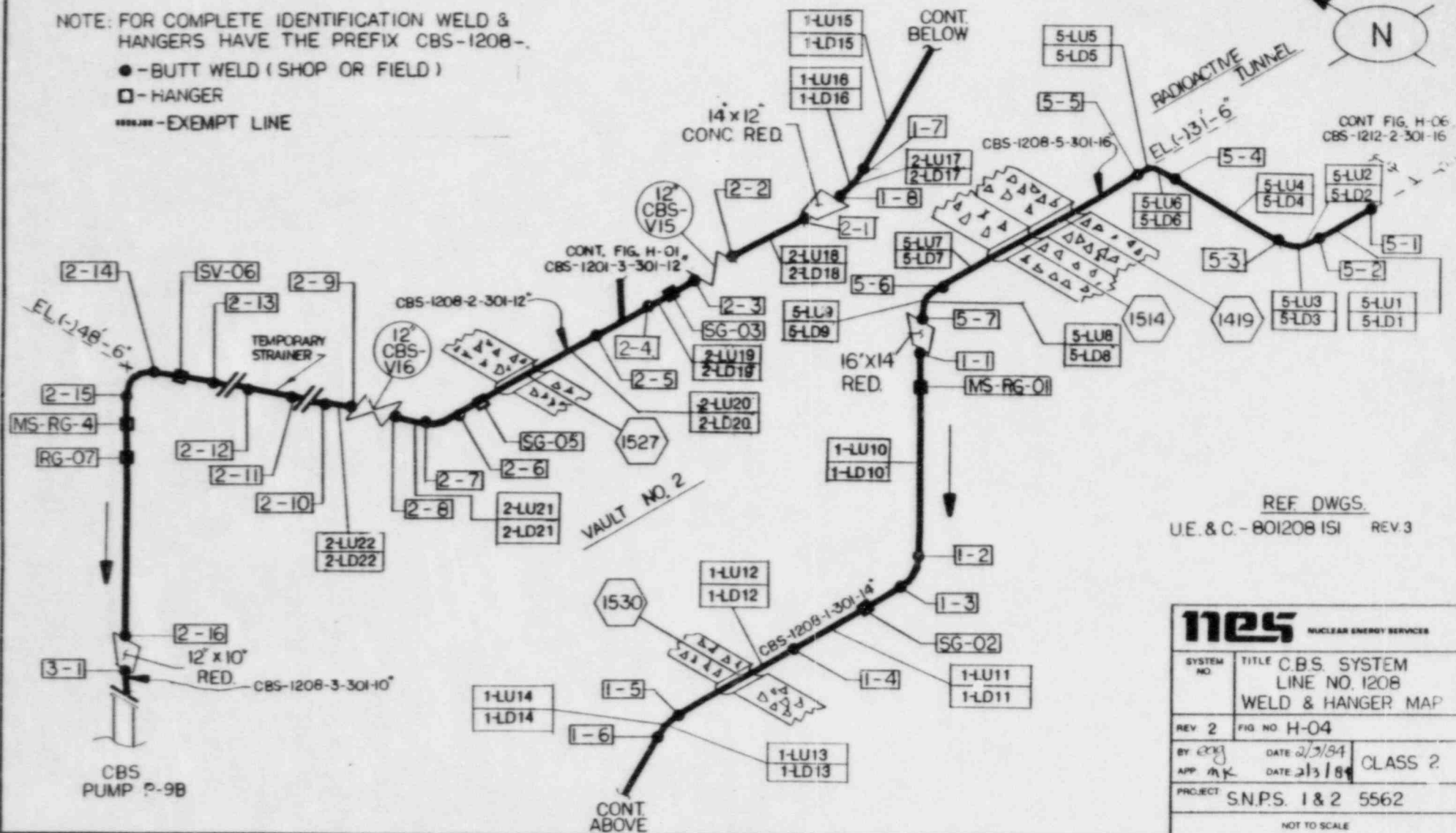


NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CBS-1208-

● - BUTT WELD (SHOP OR FIELD)

□ - HANGER

--- EXEMPT LINE



REF DWGS.
U.E. & C. - 801208 ISI REV. 3

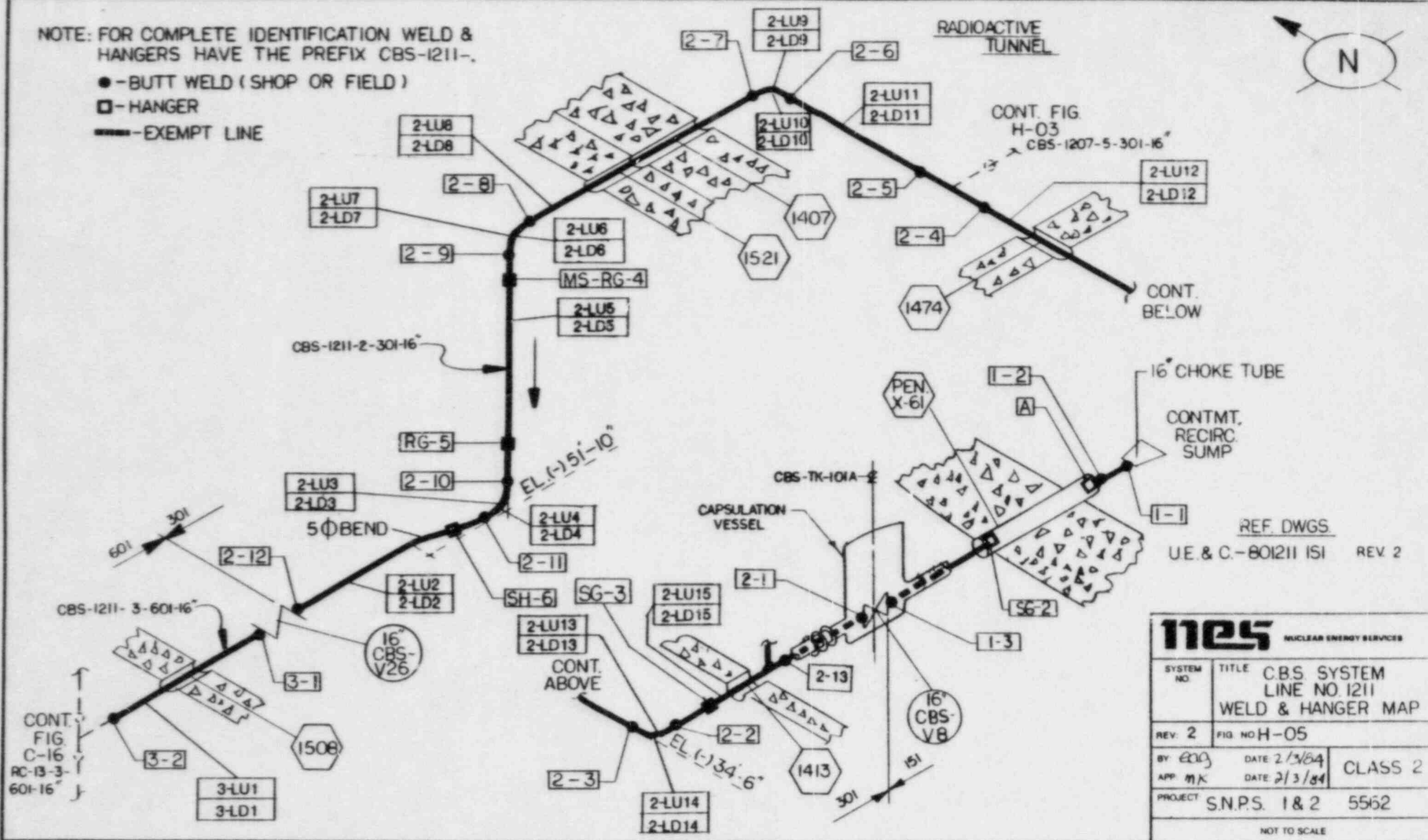
nes NUCLEAR ENERGY SERVICES	
SYSTEM NO.	TITLE C.B.S. SYSTEM LINE NO. 1208 WELD & HANGER MAP
REV. 2	FIG. NO. H-04
BY: <i>CKJ</i>	DATE: 2/3/84
APP: <i>mk</i>	DATE: 2/3/84
PROJECT	CLASS 2
S.N.P.S. 1 & 2 5562	
NOT TO SCALE	

NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CBS-1211-.

● - BUTT WELD (SHOP OR FIELD)

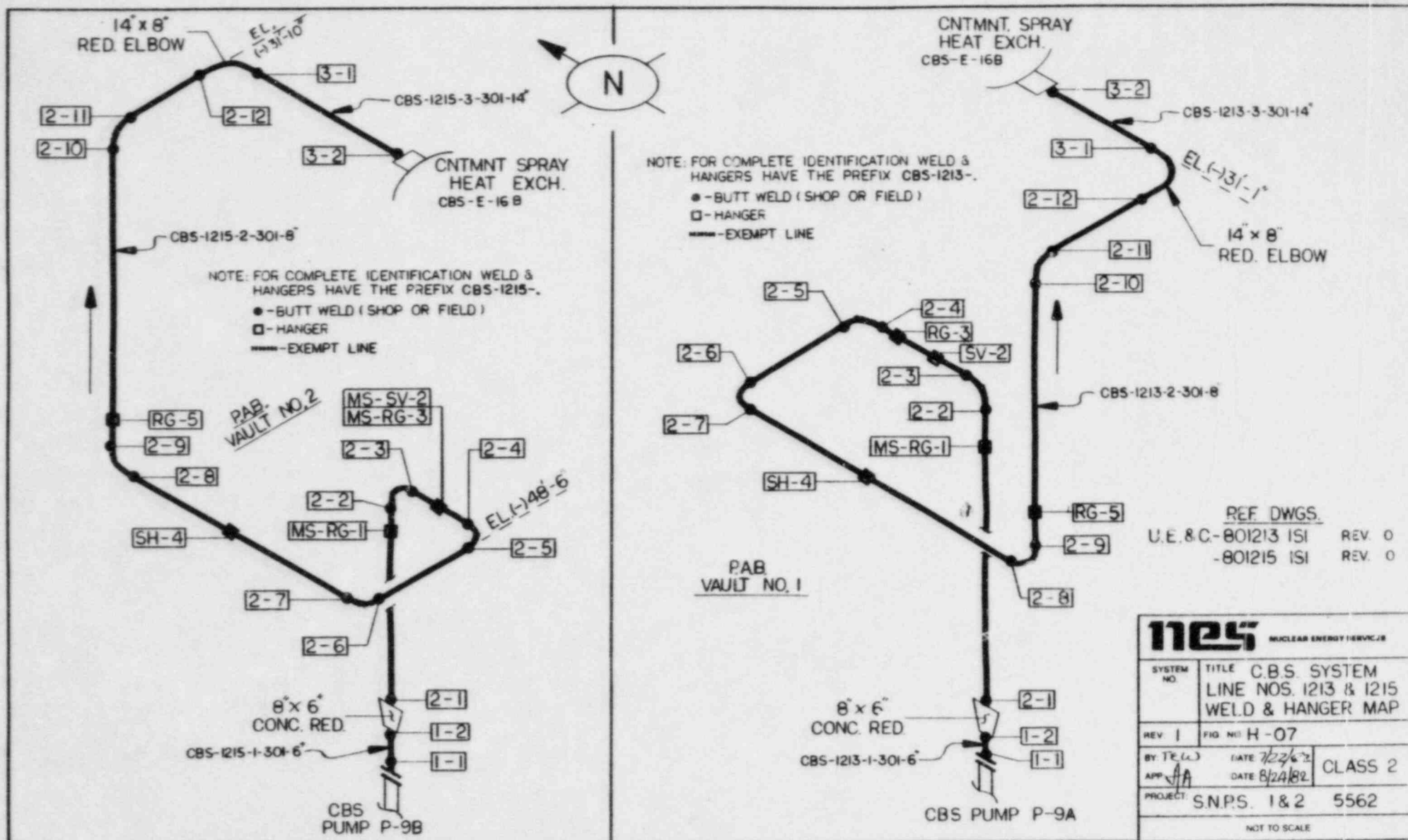
□ - HANGER

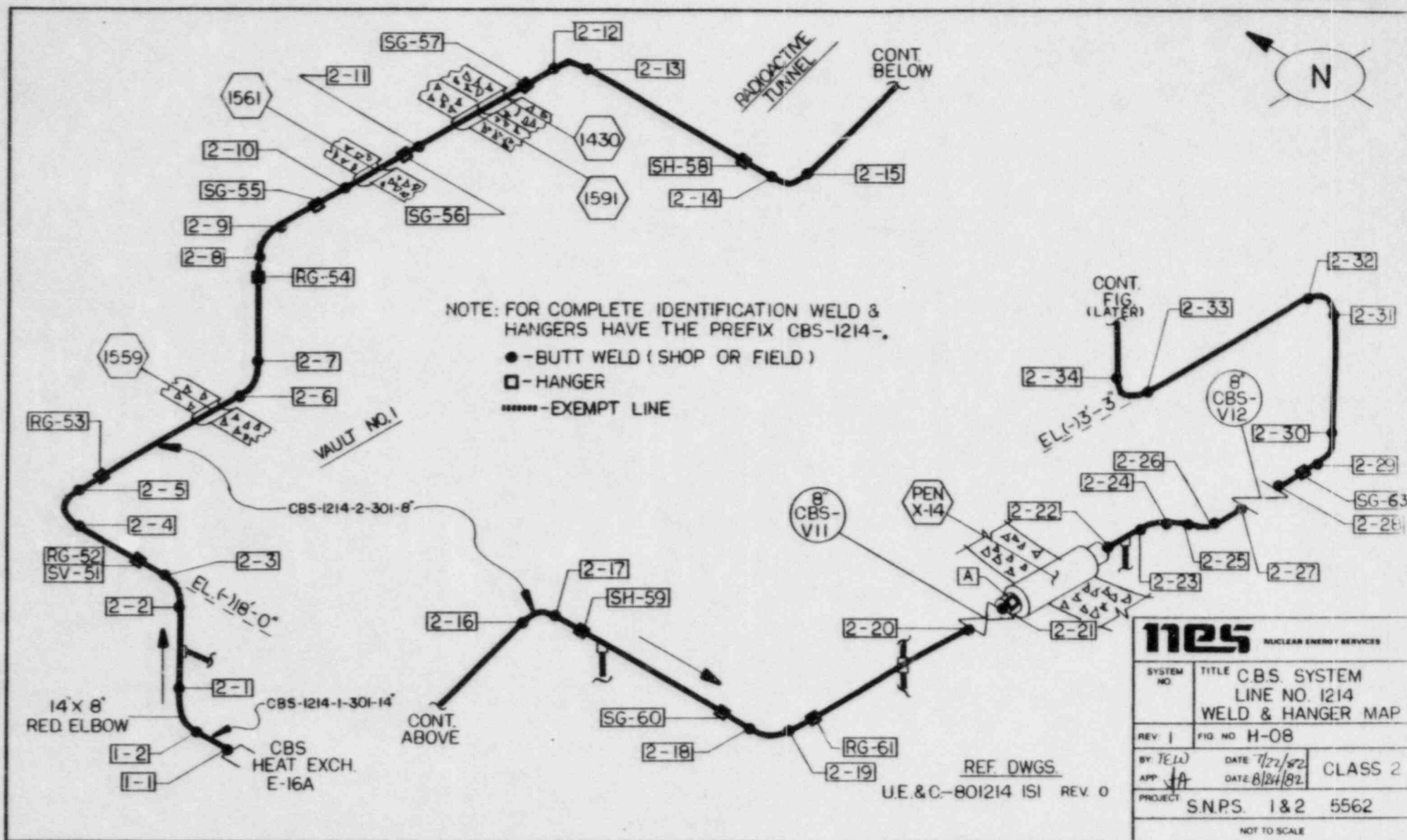
--- EXEMPT LINE



nes NUCLEAR ENERGY SERVICES

SYSTEM NO	TITLE CBS SYSTEM LINE NO. 1211 WELD & HANGER MAP		
REV. 2	FIG. NO H-05		
BY: <i>ENG</i>	DATE 2/3/84	CLASS 2	
APP: <i>MK</i>	DATE 2/3/84		
PROJECT	S.N.P.S. 1 & 2		5562
NOT TO SCALE			





NOTE: FOR COMPLETE IDENTIFICATION WELD & HANGERS HAVE THE PREFIX CBS-1216-

● - BUTT WELD (SHOP OR FIELD)

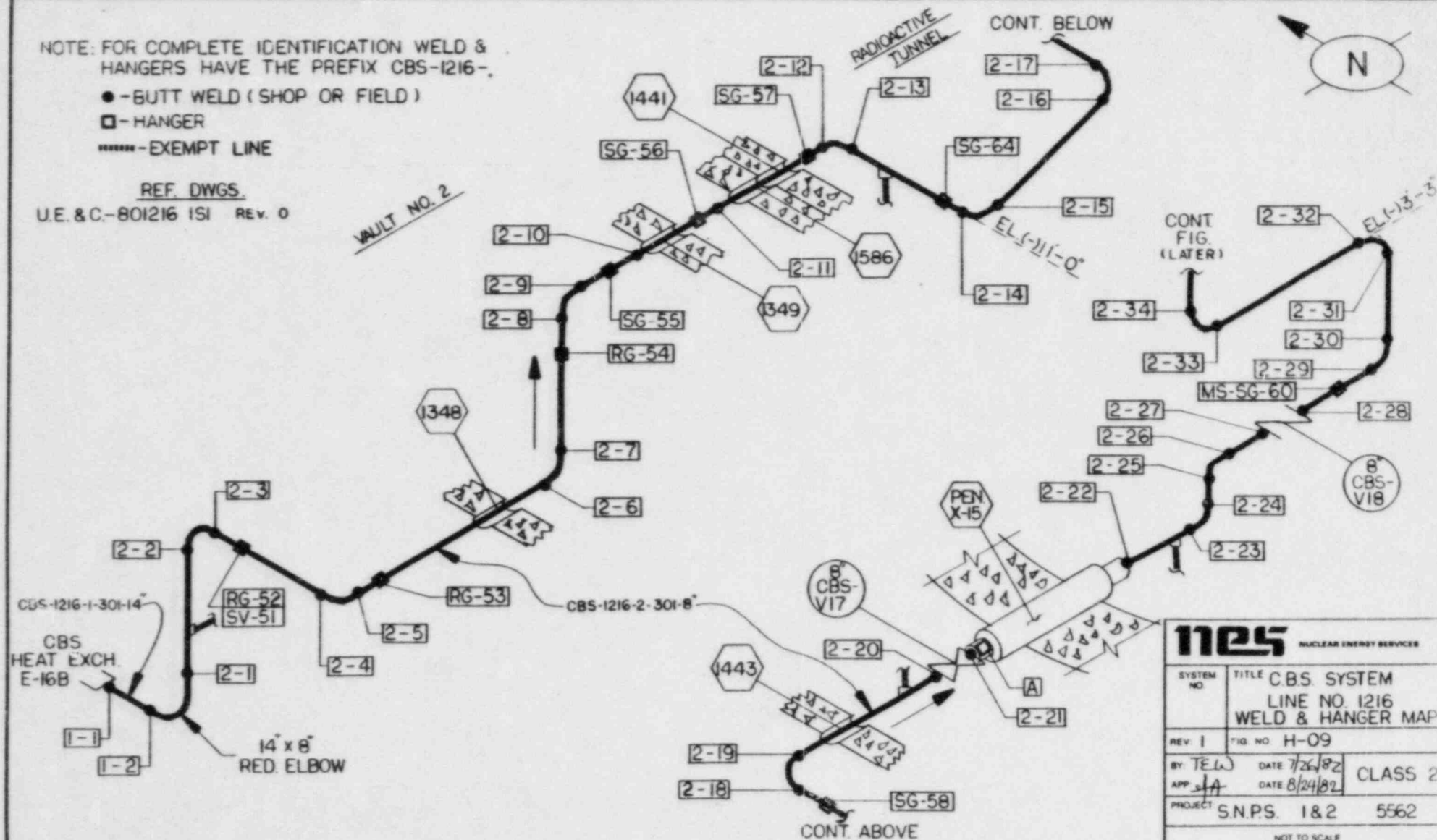
□ - HANGER

----- EXEMPT LINE

REF. DWGS.

U.E. & C.-801216 ISI REV. 0

Vault No. 2



1125				NUCLEAR ENERGY SERVICES	
SYSTEM NO.		TITLE C.B.S. SYSTEM			
		LINE NO. 1216			
		WELD & HANGER MAP			
REV. 1		FIG. NO. H-09			
BY: TEL		DATE 7/26/82		CLASS 2	
APP: JA		DATE 8/24/82			
PROJECT		S.N.P.S. 1 & 2			
		5562			
NOT TO SCALE					



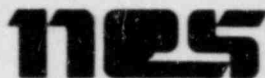
System: Containment Spray
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PROGRAM PLAN AND SCHEDULE

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By: MK Date: 2/13/89
App: JA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1201-3-1	12" Valve CBS-V5 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-LD33	12" Pipe Long Seam, Downstream (Weld 3-1 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-LU33	12" Pipe Long Seam, Upstream (Weld 3-2 Side)	80A6472	N/A	C-F	PT		Examine This Weld
				C5.12			
1-CBS-1201-3-2	12" Pipe to Elbow	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			
1-CBS-1201-3-3	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-LD34	12" Pipe Long Seam, Downstream (Weld 3-3 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-LU34	12" Pipe Long Seam, Upstream (Weld 3-4 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-4	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1201-3-5	12" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1201-3-LD35	12" Pipe Long Seam, Downstream (Weld 3-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1201-3-LU35	12" Pipe Long Seam, Upstream (Weld 3-20 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1201-3-20	12" Pipe to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1201-3-LD36	12" Pipe Long Seam, Downstream (Weld 3-20 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1201-3-LU36	12" Pipe Long Seam, Upstream (Weld 3-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1201-3-6	12" Pipe to Tee	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1201-3-7	12" Tee to Pipe	80A6472	N/A	C-F	PT	C5.11	Examine This Weld



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Document No. 80A8987
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PROGRAM PLAN AND SCHEDULE

5562-SEABROOK

By: MK Date: 2/13/89
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1201-3-LD37	12" Pipe Long Seam, Downstream (Weld 3-7 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1201-3-LU37	12" Pipe Long Seam, Upstream (Weld 3-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1201-3-8	12" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-CBS-1201-3-9	12" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1201-3-LD38	12" Pipe Long Seam, Upstream (Weld 3-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1201-3-LU38	12" Pipe Long Seam, Upstream (Weld 3-10 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1201-3-10	12" Pipe to Valve CBS-V6	80A6472	N/A	C-F C5.11	PT		
1-CBS-1201-3-11	12" Valve CBS-V6 to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS							
Ref. Dwg. No. H-01							
1-CBS-1201-3-12	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-13	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-LD41	12" Pipe Long Seam, Downstream (Weld 3-13 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-LU41	12" Pipe Long Seam, Upstream (Weld 3-14 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-14	12" Pipe to Valve CBS-V7	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-15	12" Valve CBS-V7 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1201-3-LD42	12" Pipe Long Seam, Downstream (Weld 3-15 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1201-3-LU42	12" Pipe Long Seam, Upstream (Weld 3-16 Side)	80A6472	N/A	C-F	PT		
				C5.12			



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PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1201-3-16	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1201-3-17	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1201-3-18	12" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-1-1	12" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-1-10	12" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-1-9	12" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-1-LD5	12" Pipe Long Seam, Downstream (Weld 1-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1210-1-LU5	12" Pipe Long Seam, Upstream (Weld 1-2 Side)	80A6472	N/A	C-F C5.12	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1210-1-2	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1210-1-3	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1210-1-LD4	12" Pipe Long Seam, Downstream (Weld 1-3 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1210-1-LU4	12" Pipe Long Seam, Upstream (Weld 1-4 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1210-1-4	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1210-1-5	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1210-1-LD3	12" Pipe Long Seam, Downstream (Weld 1-5 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1210-1-LU3	12" Pipe Long Seam, Upstream (Weld 1-6 Side)	80A6472	N/A	C-F	PT		Examine This Weld
				C5.12			

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1210-1-6	12" Pipe to Valve CBS-V24	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1210-1-7	12" Valve CBS-V24 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-1-LD2	12" Pipe Long Seam, Downstream (Weld 1-7 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1210-1-LU2	12" Pipe Long Seam, Upstream (Weld 1-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1210-1-8	12" Pipe to Valve CBS-V56	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-2-1	12" Valve CBS-V56 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1210-2-LD1	12" Pipe Long Seam, Downstream (Weld 2-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1210-2-LU1	12" Pipe Long Seam, Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		



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PIPING WELDS Ref. Dwg. No. H-01							
1-CBS-1410-2-2	12" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Ref. Dwg. H-12							
1-CBS-1202-3-1	12" Valve CBS-V2 to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1202-3-LD38	12" Pipe Long Seam, Downstream (Weld 3-1 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-LU38	12" Pipe Long Seam, Upstream (Weld 3-2 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-2	12" Pipe to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1202-3-LD39	12" Pipe Long Seam, Downstream (Weld 3-2 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-LU39	12" Pipe Long Seam, Upstream (Weld 3-3 Side)	80A6472	N/A	C-F	PT	C5.12	Examine This Weld
1-CBS-1202-3-3	12" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	Examine This Weld
1-CBS-1202-3-4	12" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	



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PIPING WELDS Ref. Dwg. No. H-02							
1-CBS-1202-3-LD40	12" Pipe Seam, Downstream (Weld 3-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-LU40	12" Pipe Long Seam, Upstream (Weld 3-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-5	12" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1202-3-6	12" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1202-3-LD41	12" Pipe Long Seam, Downstream (Weld 3-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-LU41	12" Pipe Long Seam, Upstream (Weld 3-7 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1202-3-7	12" Pipe to Tee	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1202-3-8	12" Tee to Pipe	80A6472	N/A	C-F	PT	C5.11	Examine This Weld



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PIPING WELDS							
Ref. Dwg. No. H-02							
1-CBS-1202-3-LD42	12" Pipe Long Seam, Downstream (Weld 3-8 Side)	80A6472	N/A	C-F	PT		Examine This Weld
				C5.12			
1-CBS-1202-3-LU42	12" Pipe Long Seam, Upstream (Weld 3-16 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1202-3-16	12" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1202-3-LD43	12" Pipe Long Seam, Downstream (Weld 3-16 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1202-3-LU43	12" Pipe Long Seam, Upstream (Weld 3-17 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1202-3-17	12" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1202-3-9	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1202-3-10	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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PIPING WELDS Ref. Dwg. No. H-02							
1-CBS-1202-3-LD44	12" Pipe Long Seam, Downstream (Weld 3-10 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-LU44	12" Pipe Long Seam, Upstream (Weld 3-11 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-11	12" Pipe to Valve CBS-V3	80A6472	N/A	C-F C5.11	PT		
1-CBS-1202-3-12	12" Valve CBS-V3 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1202-3-LD45	12" Pipe Long Seam, Downstream (Weld 3-12 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-LU45	12" Pipe Long Seam, Upstream (Weld 3-13 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-13	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1202-3-14	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-02							
1-CBS-1202-3-LD46	12" Pipe Long Seam, Downstream (Weld 3-14 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-LU46	12" Pipe Long Seam, Upstream (Weld 3-15 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1202-3-15	12" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-CBS-1209-1-1	12" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1209-1-LD4	12" Pipe Long Seam, Downstream (Weld 1-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1209-1-LU4	12" Pipe Long Seam, Upstream (Weld 1-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1209-1-2	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1209-1-3	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-02							
1-CBS-1209-1-LD3	12" Pipe Long Seam, Downstream (Weld 1-3 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1209-1-LU3	12" Pipe Long Seam, Upstream (Weld 1-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1209-1-4	12" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1209-1-5	12" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1209-1-LD2	12" Pipe Long Seam, Downstream (Weld 1-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1209-1-LU2	12" Pipe Long Seam, Upstream (Weld 1-6 Side)	80A6472	N/A	C-F	PT	C5.12	Examine This Weld
1-CBS-1209-1-6	12" Pipe to Valve CBS-V55	80A6472	N/A	C-F	PT	C5.11	Examine This Weld
1-CBS-1209-2-1	12" Valve CBS-V55 to Pipe	80A6472	N/A	C-F	PT	C5.11	



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PIPING WELDS Ref. Dwg. No. H-02							
1-CBS-1209-2-3	12" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1209-2-LD1	12" Pipe Long Seam, Downstream (Weld 2-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1209-2-LU1	12" Pipe Long Seam, Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1209-2-2	12" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-5-1	16" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-5-LD1	16" Pipe Long Seam, Downstream (Weld 5-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LU1	16" Pipe Long Seam, Upstream (Weld 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-2	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-5-LD2	16" Elbow Long Seam, Downstream (Long Radius Weld, 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LD3	16" Elbow Long Seam, Downstream (Short Radius Weld, 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LU2	16" Elbow Long Seam, Upstream (Long Radius Weld, 5-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1207-5-LU3	16" Elbow Long Seam, Upstream (Short Radius Weld, 5-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld



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PIPING WELDS							
Ref. Dwg. No. H-03							
1-CBS-1207-5-3	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1207-5-LD4	16" Pipe Long Seam, Downstream (Weld 5-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1207-5-LU4	16" Pipe Long Seam, Upstream (Weld 5-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-4	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-5-LD5	16" Elbow Long Seam, Downstream (Long Radius Weld, 5-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LD6	16" Elbow Long Seam, Downstream (Short Radius Weld, 5-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LU5	16" Elbow Long Seam, Upstream (Long Radius Weld, 5-5 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-5-LU6	16" Elbow Long Seam, Upstream (Short Radius Weld, 5-5 Side)	80A6472	N/A	C-F C5.12	PT		



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PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-5-5	16" Elbow to Reducer	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-1-1	16"x14" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-1-LD7	14" Pipe Long Seam, Downstream (Weld 1-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-LU7	14" Pipe Long Seam, Upstream (Weld 1-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-2	14" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-1-LD8	14" Elbow Long Seam, Downstream (Short Radius Weld, 1-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-LD9	14" Elbow Long Seam, Downstream (Long Radius Weld, 1-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-LU8	14" Elbow Long Seam, Upstream (Short Radius Weld, 1-3 Side)	80A6472	N/A	C-F C5.12	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-1-LU9	14" Elbow Long Seam, Upstream (Long Radius Weld, 1-3 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1207-1-3	14" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1207-1-LD10	14" Pipe Long Seam, Downstream (Weld 1-3 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1207-1-LU10	14" Pipe Long Seam, Upstream (Weld 1-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1207-1-4	14" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1207-1-5	14" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1207-1-LD11	14" Pipe Long Seam, Downstream (Weld 1-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1207-1-LU11	14" Pipe Long Seam, Upstream (Weld 1-6 Side)	80A6472	N/A	C-F	PT	C5.12	



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-1-6	14" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1207-1-LD12	14" Elbow Long Seam, Downstream (Short Radius Weld, 1-6 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1207-1-LD13	14" Elbow Long Seam, Downstream (Long Radius Weld, 1-6 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1207-1-LU12	14" Elbow Long Seam, Upstream (Short Radius Weld, 1-7 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1207-1-LU13	14" Elbow Long Seam, Upstream (Long Radius Weld, 1-7 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1207-1-7	14" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1207-1-LD14	14" Pipe Long Seam, Downstream (Weld 1-7 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1207-1-LU14	14" Pipe Long Seam, Upstream (Weld 1-8 Side)	80A6472	N/A	C-F	PT		
				C5.12			

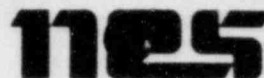
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-1-8	14" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-1-LD15	14" Elbow Long Seam, Downstream (Short Radius Weld, 1-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-LD16	14" Elbow Long Seam, Downstream (Long Radius Weld, 1-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-1-LU15	14" Elbow Long Seam, Upstream (Short Radius Weld, 1-9 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1207-1-LU16	14" Elbow Long Seam, Upstream (Long Radius Weld, 1-9 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1207-1-9	14" Elbow to Reducer	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1207-2-1	14"x12" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-LD17	12" Pipe Long Seam, Downstream (Weld 2-1 Side)	80A6472	N/A	C-F C5.12	PT		



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PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-2-LU17	12" Pipe Long Seam Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-2	12" Pipe to Valve CBS-V9	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-3	12" Valve CBS-V9 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-LD18	12" Pipe Long Seam, Downstream (Weld 2-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-LU18	12" Pipe Long Seam, Upstream (Weld 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-4	12" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-5	12" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-LD19	12" Pipe Long Seam, Downstream (Weld 2-5 Side)	80A6472	N/A	C-F C5.12	PT		



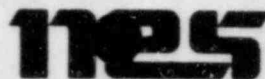
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-2-LU19	12" Pipe Long Seam, Upstream (Weld 2-17 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-17	12" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-6	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-7	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-LD20	12" Pipe Long Seam, Downstream (Weld 2-7 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-LU20	12" Pipe Long Seam, Upstream (Weld 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-8	12" Pipe to Valve CBS-V10	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-9	12" Valve CBS-V10 to Pipe	80A6472	N/A	C-F C5.11	PT		



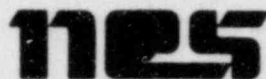
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-2-LD21	12" Pipe Long Seam, Downstream (Weld 2-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1207-2-LU21	12" Pipe Long Seam, Upstream (Weld 2-10 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1207-2-10	12" Pipe to Flange	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1207-2-11	12" Flange to Temporary Strainer Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-12	12" Temporary Strainer Pipe to Flange	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-13	12" Flange to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-14	12" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1207-2-15	12" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-03							
1-CBS-1207-2-16	12" Pipe to Reducer	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1207-3-1	12"x10" Reducer to Flange (Pump 9A)	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-5-1	16" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1208-5-LD1	16" Pipe Long Seam, Downstream (Weld 5-1 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1208-5-LU1	16" Pipe Long Seam, Upstream (Weld 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-5-2	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-5-LD2	16" Elbow Long Seam, Downstream (Short Radius Weld, 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-5-LD3	16" Elbow Long Seam, Downstream (Long Radius Weld, 5-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-5-LU2	16" Elbow Long Seam, Upstream (Short Radius Weld, 5-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-5-LU3	16" Elbow Long Seam, Upstream (Long Radius Weld, 5-3 Side)	80A6472	N/A	C-F C5.12	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-5-3	16" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-5-LD4	16" Pipe Long Seam, Downstream (Weld 5-3 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU4	16" Pipe Long Seam, Upstream (Weld 5-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-4	16" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-5-LD5	16" Elbow Long Seam, Downstream (Long Radius Weld, 5-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LD6	16" Elbow Long Seam, Downstream (Short Radius Weld, 5-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU5	16" Elbow Long Seam, Upstream (Long Radius Weld, 5-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU6	16" Elbow Long Seam, Upstream (Short Radius Weld, 5-5 Side)	80A6472	N/A	C-F	PT	C5.12	



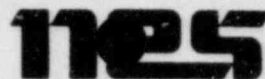
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-5-5	16" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-5-LD7	16" Pipe Long Seam, Downstream (Weld 5-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU7	16" Pipe Long Seam, Upstream (Weld 5-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-6	16" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-5-LD8	16" Elbow Long Seam, Downstream (Short Radius Weld, 5-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LD9	16" Elbow Long Seam, Downstream (Long Radius Weld, 5-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU8	16" Elbow Long Seam, Upstream (Short Radius Weld, 5-7 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-5-LU9	16" Elbow Long Seam, Upstream (Long Radius Weld, 5-7 Side)	80A6472	N/A	C-F	PT	C5.12	



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PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-5-7	16" Elbow to Reducer	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-1-1	16"x14" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-1-LD10	14" Pipe Long Seam, Downstream (Weld 1-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-1-LU10	14" Pipe Long Seam, Upstream (Weld 1-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-1-2	14" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-1-3	14" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-1-LD11	14" Pipe Long Seam, Downstream (Weld 1-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-1-LU11	14" Pipe Long Seam, Upstream (Weld 1-4 Side)	80A6472	N/A	C-F C5.12	PT		



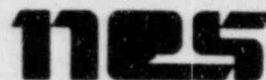
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PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-1-4	14" Pipe to Pipe	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-1-LD12	14" Pipe Long Seam, Downstream (Weld 1-4 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-1-LU12	14" Pipe Long Seam, Upstream (Weld 1-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-1-5	14" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1208-1-LD13	14" Elbow Long Seam, Downstream (Short Radius Weld, 1-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-1-LD14	14" Elbow Long Seam, Downstream (Long Radius Weld, 1-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-1-LU13	14" Elbow Long Seam, Upstream (Short Radius Weld, 1-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1208-1-LU14	14" Elbow Long Seam, Upstream (Long Radius Weld, 1-6 Side)	80A6472	N/A	C-F	PT	C5.12	



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PIPING WELDS Ref. Dwg. No. H-28							
1-CBS-1208-1-8	14" Elbow to Reducer	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-2-1	14"x12" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1208-2-LD18	12" Pipe Long Seam, Downstream (Weld 2-1 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1208-2-LU18	12" Pipe Long Seam, Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-2-2	12" Pipe to Valve CBS-V15	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-2-3	12" Valve CBS-V15 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1208-2-LD19	12" Pipe Long Seam, Downstream (Weld 2-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1208-2-LU19	12" Pipe Long Seam, Upstream (Weld 2-4 Side)	80A6472	N/A	C-F C5.12	PT		

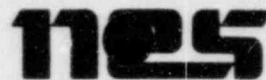
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PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-2-4	12" Pipe to Tee	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-5	12" Tee to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-LD20	12" Pipe Long Seam, Downstream (Weld 2-5 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1208-2-LU20	12" Pipe Long Seam, Upstream (Weld 2-6 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1208-2-6	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-7	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-LD21	12" Pipe Long Seam, Downstream (Weld 2-7 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1208-2-LU21	12" Pipe Seam, Upstream (Weld 2-8 Side)	80A6472	N/A	C-F	PT		Examine This Weld
				C5.12			



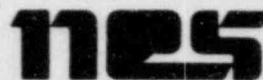
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PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-2-8	12" Pipe to Valve CBS-V16	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			
1-CBS-1208-2-9	12" Valve CBS-V16 to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-LD22	12" Pipe Long Seam, Downstream (Weld 2-9 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1208-2-LU22	12" Pipe Long Seam, Upstream (Weld 2-10 Side)	80A6472	N/A	C-F	PT		
				C5.12			
1-CBS-1208-2-10	12" Pipe to Flange	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-11	12" Flange to Strainer Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-12	12" Strainer Pipe to Flange	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-13	12" Flange to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Ref. Dwg. No. H-04							
1-CBS-1208-2-14	12" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-15	12" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1208-2-16	12" Pipe to Reducer	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			
1-CBS-1208-3-1	12"x10" Reducer to Flange (Pump 9B)	80A6472	N/A	C-F	PT		
				C5.11			



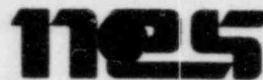
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-05							
1-CBS-1211-1-1	16" Choke Tube to Pipe	80A6472	N/A	C-F C5.11	PT		Special Fitting Examine This Weld
1-CBS-1211-1-2	16" Pipe to Penetration X-61 Process Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-1-3	16" Penetration X-61 Process Pipe to Valve CBS-V8	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-1	16" Valve CBS-V8 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-13	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD15	16" Pipe Long Seam, Downstream (Weld 2-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU15	16" Pipe Long Seam, Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-2	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS							
Ref. Dwg. No. H-05							
1-CBS-1211-2-LD13	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LD14	16" Elbow Long Seam, Downstream (Long Radius Weld, 2-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU13	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1211-2-LU14	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1211-2-3	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1211-2-LD12	16" Pipe Long Seam, Downstream (Weld 2-3 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1211-2-LU12	16" Pipe Long Seam, Upstream (Weld 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-4	16" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-05							
1-CBS-1211-2-5	16" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD11	16" Pipe Long Seam, Downstream (Weld 2-5 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU11	16" Pipe Long Seam, Upstream (Weld 2-6 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-6	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD10	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-6 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LD9	16" Elbow Long Seam, Downstream (Long Radius Weld, 2-6 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU10	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-7 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU9	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-7 Side)	80A6472	N/A	C-F C5.12	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Ref. Dwg. No. H-05							
1-CBS-1211-2-7	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD8	16" Pipe Long Seam, Downstream (Weld 2-7 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU8	16" Pipe Long Seam, Upstream (Weld 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-8	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD7	16" Elbow Longs Seam, Downstream (Long Radius Weld 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LD6	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU7	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU6	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-9 Side)	80A6472	N/A	C-F C5.12	PT		



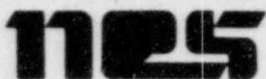
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PIPING WELDS Ref. Dwg. No. H-05							
1-CBS-1211-2-9	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD5	16" Pipe Long Seam, Downstream (Weld 2-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU5	16" Pipe Long Seam, Upstream (Weld 2-10 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-10	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD4	16" Elbow Long Seam, Downstream (Long Radius Weld, 2-10 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-01211-2-LD3	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-10 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU4	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-11 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU3	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-11 Side)	80A6472	N/A	C-F C5.12	PT		



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PIPING WELDS Ref. Dwg. No. H-05							
1-CBS-1211-2-11	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-2-LD2	16" Pipe Long Seam, Downstream (Weld 2-11 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-LU2	16" Pipe Long Seam, Upstream (Weld 2-12 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-2-12	16" Pipe to Valve CBS-V26	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-3-1	16" Valve CBS-V26 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1211-3-LD1	16" Pipe Long Seam, Downstream (Weld 3-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-3-LU1	16" Pipe Long Seam, Upstream (Weld 3-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1211-3-2	16" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



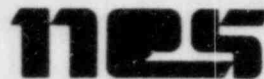
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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-1-1	16" Choke Tube to Pipe	80A6472	N/A	C-F C5.11	PT		Special Fitting
1-CBS-1212-1-2	16" Pipe to Penetration-60 Process Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-1-4	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-1-3	16" Penetration-60 Process Pipe to Valve CBS-V14	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-1	16" Valve CBS-V14 to Pipe	80A6472	N/IA	C-F C5.11	PT		
1-CBS-1212-2-LD15	16" Pipe Long Seam, Downstream (Weld 2-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU15	16" Pipe Long Seam, Upstream (Weld 2-13 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-13	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-15	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD14	16" Pipe Long Seam, Downstream (Weld 2-15 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU14	16" Pipe Long Seam, Upstream (Weld 2-2 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1212-2-2	16" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1212-2-3	16" Tee to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD13	16" Pipe Long Seam, Downstream (Weld 2-3 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU13	16" Pipe Long Seam, Upstream (Weld 2-12 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-12	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		



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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-LD12	16" Pipe Long Seam, Downstream (Weld 2-12 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU12	16" Pipe Long Seam, Upstream (Weld 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-4	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD11	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LD10	16" Elbow Long Seam, Downstream (Long Radius Weld, 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU11	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-5 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU10	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-5 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-5	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-LD9	16" Pipe Long Seam, Downstream (Weld 2-5 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-LU9	16" Pipe Long Seam, Upstream (Weld 2-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-6	16" Pipe to Elbow	80A6472	N/A	C-F	PT	C5.11	
1-CBS-1212-2-LD8	16" Elbow Long Seam, Downstream (Short Radius Weld 2-6 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-LD7	16" Elbow Long Seam, Downstream (Long Radius Weld 2-7 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-LU8	16" Elbow Long Seam, Upstream (Short Radius Weld 2-7 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-LU7	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-7 Side)	80A6472	N/A	C-F	PT	C5.12	
1-CBS-1212-2-7	16" Elbow to Pipe	80A6472	N/A	C-F	PT	C5.11	

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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-LD6	16" Pipe Long Seam, Downstream (Weld 2-7 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU6	16" Pipe Long Seam, Upstream (Weld 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-8	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD5	16" Pipe Long Seam, Downstream (Weld 2-8 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU5	16" Pipe Long Seam, Upstream (Weld 2-9 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-9	16" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD4	16" Elbow Long Seam, Downstream (Long Radius Weld, 2-4 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LD3	16" Elbow Long Seam, Downstream (Short Radius Weld, 2-9 Side)	80A6472	N/A	C-F C5.12	PT		

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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-LU4	16" Elbow Long Seam, Upstream (Long Radius Weld, 2-10 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1212-2-LU3	16" Elbow Long Seam, Upstream (Short Radius Weld, 2-10 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1212-2-10	16" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1212-2-LD2	16" Pipe Long Seam, Downstream (Weld 2-10 Side)	80A6472	N/A	C-F C5.12	PT		Examine This Weld
1-CBS-1212-2-LU2	16" Pipe Long Seam, Upstream (Weld 2-14 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-14	16" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-2-LD1A	16" Pipe Long Seam, Downstream (Weld 2-14 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-2-LU1A	16" Pipe Long Seam, Upstream (Weld 2-11 Side)	80A6472	N/A	C-F C5.12	PT		



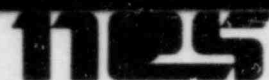
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PIPING WELDS Ref. Dwg. No. H-06							
1-CBS-1212-2-11	16" Pipe to Valve CBS-V25	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-3-1	16" Valve CBS-V25 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1212-3-LD1	16" Pipe Long Seam, Downstream (Weld 3-1 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-3-LU1	16" Pipe Long Seam, Upstream (Weld 3-2 Side)	80A6472	N/A	C-F C5.12	PT		
1-CBS-1212-3-2	16" Pipe to Tee	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-07							
1-CBS-1213-1-1	6" Flange (Pump 9A) to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1213-1-2	6" Pipe to Reducer	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-1	6"x8" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1213-2-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-07							
1-CBS-1213-2-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-10	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-11	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-2-12	8" Pipe to Reducing Elbow	80A6472	N/A	C-F C5.11	PT		



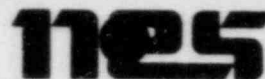
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-07							
1-CBS-1213-3-1	8" x 14" Reducing Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1213-3-2	14" Pipe to Heat Exchanger Nozzle	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-1-1	6" Flange (Pump 9B) to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-1-2	6" Pipe to Reducer	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1215-2-1	6"x8" Reducer to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1215-2-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



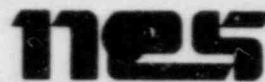
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-07							
1-CBS-1215-2-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-10	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



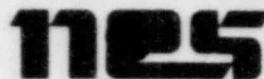
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-07							
1-CBS-1215-2-11	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-2-12	8" Pipe to Elbow (Reducing)	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-3-1	8" x 14" Reducing Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1215-3-2	14" Pipe to Heat Exchanger Nozzle	80A6472	N/A	C-F C5.11	PT		



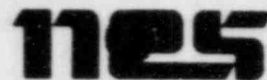
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-08							
1-CBS-1214-1-1	14" Heat Exchanger E-16A Nozzle to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1214-1-2	14" Pipe to Reducing Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-1	14"x8" Reducing Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1214-2-2	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-3	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-4	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1214-2-5	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-08							
1-CBS-1214-2-6	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-7	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-8	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-9	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-10	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-11	8" Pipe to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1214-2-12	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			



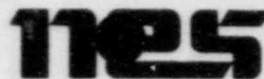
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-08							
1-CBS-1214-2-13	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-14	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-15	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-16	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-17	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-18	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-19	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-08							
1-CBS-1214-2-20	8" Pipe to Valve CBS-V11	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-21	8" Valve CBS-V11 to Penetration X-14 Process Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-22	8" Penetration X-14 Process Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-23	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-24	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-25	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-26	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-08							
1-CBS-1214-2-27	8" Pipe to Valve CBS-V12	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1214-2-28	8" Valve CBS-V12 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-29	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-30	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1214-2-31	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-32	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1214-2-33	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS							
Reference Drawing No: H-08							
1-CBS-1214-2-34	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS							
Reference Drawing No: H-09							
1-CBS-1216-1-1	14" Heat Exchanger E-16B Nozzle to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-C3S-1216-1-2	14" Pipe to Reducing Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1216-2-1	14"x8" Reducing Elbow to Pipe	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			
1-CBS-1216-2-2	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1216-2-3	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1216-2-4	8" Pipe to Elbow	80A6472	N/A	C-F	PT		
				C5.11			
1-CBS-1216-2-5	8" Elbow to Pipe	80A6472	N/A	C-F	PT		Examine This Weld
				C5.11			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-09							
1-CBS-1216-2-6	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-7	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-8	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-9	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-10	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-11	8" Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-12	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
PIPING WELDS Reference Drawing No: H-09							
1-CBS-1216-2-13	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-14	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-15	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-16	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-17	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-18	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-19	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-09							
1-CBS-1216-2-20	8" Pipe to Valve CBS-V17	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-21	8" Valve CBS-V17 to Penetration X-15 Process Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1216-2-22	8" Penetration X-15 Process Pipe to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-23	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		Examine This Weld
1-CBS-1216-2-24	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-25	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-26	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		Examine This Weld



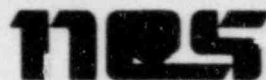
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PIPING WELDS Reference Drawing No: H-09							
1-CBS-1216-2-27	8" Pipe to Valve CBS-V18	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-28	8" Valve CBS-V18 to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-29	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-30	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-31	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-32	8" Elbow to Pipe	80A6472	N/A	C-F C5.11	PT		
1-CBS-1216-2-33	8" Pipe to Elbow	80A6472	N/A	C-F C5.11	PT		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
PIPING WELDS Reference Drawing No: H-09							
1-CBS-1216- 2-34	8" Elbow to Pipe	80A6472	N/A	C-F	PT		
				C5.11			



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-01							
1-CBS-1210-1-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1210-1-SV-2	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.50	VT-3 VT-4		
1-CBS-1201-3-SG-13	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1201-3-SH-14	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1201-3-RG-15	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1201-3-RG-16	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1201-3-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		

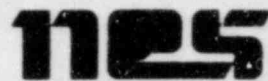
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-02							
1-CBS-1209-1-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1209-1-SV-2	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-CBS-1202-3-SG-13	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1202-3-SH-14	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1202-3-RG-16	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1202-3-RG-17	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1202-3-RG-18	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



PROGRAM PLAN AND SCHEDULE

System: Containment Spray
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Preservice Inspection

5562-SEABROOK

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-03							
1-CBS-1207-5-SG-1	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-1-SG-2	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-1-MS-RG-3	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-1-SG-4	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-2-SG-5	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-2-SG-7	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-2-SV-8	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONF	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-03							
1-CBS-1207-2-MS-RG-6	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1207-2-RG-9	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-04							
1-CBS-1208-1-MS-RG-01	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1208-1-SG-02	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1208-2-SG-03	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1208-2-SG-05	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1208-2-SV-06	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-CBS-1208-2-MS-RG-4	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CSB-1208-2-RG-07	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



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PROGRAM PLAN AND SCHEDULE

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-05							
1-CBS-1211-1-ANCHOR	Pipe Support Anchor	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1211-1-SG-2	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		Support Located Inside the Sleeve
1-CBS-1211-2-SG-3	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1211-2-MS-RG-4	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1211-2-RG-5	Pipe Restraint Seismic Guide	80AS6474	N/A	C-E C3.50	VT-3		
1-CBS-1211-2-SH-6	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		



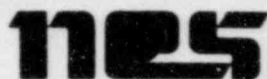
PROGRAM PLAN AND SCHEDULE

System: Containment Spray
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Preservice Inspection

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By: MK Date: 2/19/89
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-06							
1-CBS-1212-1-ANCHOR	Pipe Support Anchor	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-1-SG-02	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-2-RG-03	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-2-SG-04	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-2-MS-RG-5	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-2-RG-07	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1212-2-SH-06	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		



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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-07							
1-CBS-1213-2-MS-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-CBS-1213-2-SV-2	Pipe Support Variable Spring	80A6474	N/A	C-E	VT-3 C3.50 VT-4 C3.60		
1-CBS-1213-2-RG-3	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-CBS-1213-2-SH-4	Pipe Support Strut	80A6474	N/A	C-E	VT-3 C3.50		
1-CBS-1213-2-RG-5	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-CBS-1215-2-MS-RG-1	Pipe Restraint Seismic Guide	80A6474	N/A	C-E	VT-3 C3.50		
1-CBS-1215-2-MS-SV-2	Pipe Support Variable Spring	80A6474	N/A	C-E	VT-3 C3.50 VT-4 C3.60		



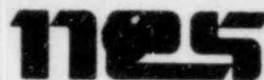
PROGRAM PLAN AND SCHEDULE

System: Containment Spray
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (if applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-07							
1-CBS-1215-2-MS-RG-3	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1215-2-SH-4	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1215-2-RG-5	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		



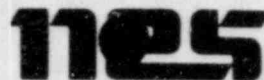
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-08							
1-CBS-1214-2-SV-51	Pipe Support Variable Spring	80A6474	N/A	C-E C3.50 C3.60	VT-3 VT-4		
1-CBS-1214-2-RG-52	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-RG-53	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-RG-54	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SG-55	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SG-56	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SG-57	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



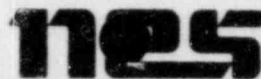
System: Containment Spray
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-08							
1-CBS-1214-2-SH-58	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SH-59	Pipe Support Strut	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SG-60	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-RG-61	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1214-2-SG-63	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



PROGRAM PLAN AND SCHEDULE

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-09							
1-CBS-1216-2-SV-51	Pipe Support Variable Spring	80A6474	N/A	C-E C3.60	VT-3 VT-4		
1-CBS-1216-2-RG-52	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1216-2-RG-53	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1216-2-RG-54	Pipe Restraint Seismic Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1216-2-SG-55	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1216-2-SG-56	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
1-CBS-1216-2-SG-57	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		

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PROGRAM PLAN AND SCHEDULE

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By: MLK Date: 2/13/84
App: AA Date: 2/84
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If applicable)	CODE CATEGORY	CODE EXAM METHOD	ZONE NO.	REMARKS
SUPPORT EXAMINATIONS Reference Drawing No: H-09							
I-CBS-1216-2-SG-64	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
I-CBS-1216-2-SG-58	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		
I-CBS-1216-2-MS-SG-60	Pipe Support Guide	80A6474	N/A	C-E C3.50	VT-3		



NUCLEAR ENERGY SERVICES, INC.

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PSI PROGRAM PLAN:

PRIMARY COMPONENT COOLING SYSTEM

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

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Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Manager	<i>Asrar Ahmed</i>	1/13/84
Engineering Dept. Manager	<i>Bruce J. Brown</i>	1/19/84
Program Standards Manager	<i>L. Page</i>	1/20/84
Project Manager	<i>L. P. Brunkage (by J. Brunkage)</i>	1-19-84
Quality Assurance Manager	<i>ME Alling for WSG</i>	1-20-84

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NUCLEAR ENERGY SERVICES, INC.

DOCUMENT NO. 80A8988

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WELD/HANGER MAP FIGURES	(LATER)
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2.2 Exceptions	(LATER)
2.3 Classifications	5
2.4 Referenced Calibration Standards	(LATER)
2.5 Isometric Figures	(LATER)

PRIMARY COMPONENT COOLING SYSTEM

1. INTRODUCTION

This document has been prepared to (1) delineate system-specific, itemized Preservice Inspection (PSI) requirements and, (2) present appropriate diagrams locating the areas for examination. All Class 2 components that are required to be examined by the ASME BPV Code, Section XI, are included.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to all components of systems subject to ISI. The Class 3 Components NES Document No. 80A8989 delineates PSI requirements for Class 3 components of this System.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

The portions of the Primary Component Cooling System that are exempted from examination as allowed by ASME BPV Code, Section XI, and as described in the General Reference Text are presented in Table 2.1.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required examinations of the Primary Component Cooling System are itemized in Table 2.2 (Later).

TABLE - 2.1
SYSTEM EXEMPTION

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>	<u>Basis For Exemption</u>
2	All pipe vents, drains, test, sample, fill, by-pass, and instrument connections 4" nominal size and smaller	F-805028/4	All component connections, piping & associated valves, and vessels (and their supports) that are 4" nominal pipe size & smaller are exempted as per ASME Section XI, IWC-1220(d) S 75 Addenda

2.3 CLASSIFICATIONS

This System's Piping and Instrumentation Diagrams have been reviewed and ASME Code Class 1, 2 and 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table 2.3 describes the boundaries for the Primary Component Cooling System.

TABLE - 2.3
SYSTEM CLASSIFICATIONS

<u>ASME Code Class</u>	<u>Description</u>	<u>Ref. P&ID</u>
1	None	None
2	12" line between valves CC-V175 and CC-V176 through containment	F-805028/4
2	12" line between valves CC-V257 and CC-V256 through containment	F-805028/4



2.4 CALIBRATION STANDARDS

Table 2.4 (Later) lists the Calibration Standards for Ultrasonic examinations scheduled for the Primary Component Cooling System. All Calibration Standards are to be retained on site. The General Reference text discusses the basis for requirement of these Calibration Standards.

2.5 ISOMETRIC FIGURES AND SKETCHES

The piping isometric figures listed in Table 2.5 (Later) show the identification and location of components for the Primary Component Cooling System that are Class 1 and Class 2.



3. PROGRAM PLAN AND SCHEDULE

The components that fall within the boundaries requiring PSI examination are defined in the Program Plan and Schedule Tables. Each weld or other component is designated by a unique identification number, and then described. Also identified are applicable examination category, method, procedure number, and calibration standard number where referenced for ultrasonic examination as described in Section 3 of the General Reference Text. Also appearing in the Schedule Table are specific remarks unique to that component requiring examination.

Examination items are first divided according to the Isometric figure that they appear on. Multiple examination requirements of the same component are listed together in the schedule tables. Hangers and component examinations follow the piping weld examinations.

The Class 2 piping welds in the Primary Component Cooling system are listed on the schedule sheets as Code Category C-F in accordance with Section XI, 1977 Edition through Summer 1978 Addenda. As discussed in paragraph 3.4 of General Reference Text, the extent of examination for Class 2 systems have been determined using Section XI, 1974 Edition through Summer 1975 Addenda. Thus the extent of examination of this system's piping weld have been determined using the requirements of Code Category C-G of Section XI, 1974 Edition through Summer 1975 Addenda. This requires the examination of only 50% of the welds at structural discontinuities. 100% of the welds are scheduled for examination in the Reference PSI Program Plan as requested by the owner.



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PSI PROGRAM PLAN

CLASS 3 COMPONENTS

SEABROOK NUCLEAR POWER STATION, UNIT 1

Prepared For

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

Project Application 5562	Prepared By Asrar Ahmed	Date 1/13/84
APPROVALS		
TITLE/DEPT.	SIGNATURE	DATE
Project Engineer	Asrar Ahmed	1/13/84
Engineering Dept. Manager	Bruce B. Berman	1/13/84
Program Standards Manager	L. Aoye	1/16/84
Project Manager	Laurence P. Brundage	1/13/84
Quality Assurance Manager	T.A. Schneider for W.S.G.	1/18/84
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CLASS 3 COMPONENTS

1. INTRODUCTION

This document has been prepared to delineate itemized Preservice Inspection (PSI) requirements. All Class 3 components are required to be examined in accordance with the ASME BPV Code, Section XI.

The General Reference Text, NES Document 80A8980 presents the development and required procedural information for the PSI Program Plan generic to Class 3 components.

2. SYSTEM DESCRIPTION

2.1 EXEMPTIONS

For the purpose of system pressure test, open-ended portions of suction or drain lines from a storage vessel extending to the first shutoff valve are considered as an extension of the storage vessel.

Open-ended portions of nonclosed systems shall have tested or observed unimpaired flow during system operation in lieu of a system pressure test.

2.2 EXCEPTIONS

Exception may be taken to code requirements of examination where access is not possible due to design limitations. Provision for such exception is presented in the General Reference Text. Exceptions that are taken to required exams of the Class 3 components are itemized (Later).

2.3 CLASSIFICATIONS

Piping and instrumentation Diagrams (P&ID) have been reviewed and ASME Code Class 3 boundaries have been established as required by ASME Code Section XI, IWA-1400. The General Reference Text discusses the basis for these determinations.

Table A describes systems and their related P&ID containing the Class 3 components.

3. PROGRAM PLAN AND SCHEDULE

In accordance with PSI examination requirements, component supports and restraints within the boundaries of the Class 3 systems, for component exceeding 4" nominal pipe size, shall receive visual examination VT-3 of IWA-2213.

The mechanical and hydraulic snubbers, spring loaded and constant weight support hangers for components exceeding 4" nominal pipe size shall receive visual examination VT-4 of IWA-2214.

The examination areas can be located by using Table B Class 3 Piping for Snubber Test and Hanger Examinations, which lists the line number and its reference P&ID Number.

TABLE A
SEABROOK STATION
UNIT 1 & 2
REFERENCE
P&ID'S FOR CLASS 3 PIPING

<u>P&ID REV.</u>	<u>SYSTEM TITLE</u>
9763-F-202074 /07	Main Steam
9763-F-202076 /00	Emergency Feedwater
9763-F-202079 /07	Feedwater
9763-F-202101 /04	Deisel Generator - Air
9763-F-202102 /05	Deisel Generator - Fuel & Lube Oil
9763-F-202103 /05	Deisel Generator - Cooling Water
9763-F-804981 /01	Primary Component Cooling
9763-F-804982 /01	Primary Component Cooling
9763-F-804983 /00	Demineralized Water
9763-F-804996 /00	Reactor Refueling Pool & Transfer
9763-F-805008 /06	Residual Heat Removal
9763-F-805010 /05	Safety Injection
9763-F-805011 /07	Chemical and Volume Control
9763-F-805012 /08	Chemical and Volume Control
9763-F-805013 /06	Chemical and Volume Control
9763-F-805014 /06	Chemical and Volume Control
9763-F-805016 /04	Primary Component Cooling
9763-F-805017 /05	Spent Fuel Cooling & Cleanup
9763-F-805018 /03	Primary Component Cooling
9763-F-805019 /07	Service Water
9763-F-805023 /05	Containment Spray
9763-F-805025 /04	Sample System
9763-F-805028 /04	Primary Component Cooling
9763-F-805029 /03	Primary Component Cooling
9763-F-805033 /06	Service Water
9763-F-805611 /04	Radioactive Waste Gas

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0702-14-6"	805029/03
CC-0703-01-8"	805029/03
CC-0704-15-6"	805029/03
CC-0709-01-6"	805028/04
CC-0710-02-6"	805028/04
CC-0711-04-8"	805028/04
CC-0712-11-6"	805028/04
CC-0713-01-6"	805029/03
CC-0713-08-6"	805029/03
CC-0714-11-12"	805029/03
CC-0714-12-6"	805029/03
CC-0715-01-6"	805029/03
CC-0715-08-6"	805029/03
CC-0715-10-6"	805029/03
CC-0716-01-6"	805029/03
CC-0720-01-10"	805029/03
CC-0721-01-10"	805028/04
CC-0751-01-14"	805018/03
CC-0751-02-24"	805018/03
CC-0751-03-24"	805018/03
CC-0751-04-14"	805018/03
CC-0751-05-24"	805018/03
CC-0752-01-24"	805018/03

TABLE B
CLASS PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0752-02-20"	805018/03
CC-0752-02-20"	804981/01
CC-0752-02-20"	805029/03
CC-0752-03-12"	805029/03
CC-0752-05-12"	805029/03
CC-0754-01-20"	805018/03
CC-0756-10-8"	805029/03
CC-0761-01-10"	804982/01
CC-0761-01-10"	805016/04
CC-0761-01-10"	805017/05
CC-0761-02-12"	804982/01
CC-0761-02-12"	805017/05
CC-0772-01-12"	805028/04
CC-0772-02-10"	805028/04
CC-0775-01-20"	804981/01
CC-0775-02-14"	804981/01
CC-0775-03-16"	804981/01
CC-0775-04-18"	804981/01
CC-0775-04-18"	805023/05
CC-0775-05-20"	804981/01
CC-0775-05-20"	805008/06
CC-0776-11-6"	805028/04
CC-0777-05-12"	805029/03

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CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0777-07-12"	805029/03
CC-0777-08-20"	805029/03
CC-0777-08-20"	804981/01
CC-0777-08-20"	805018/03
CC-0777-09-24"	805018/03
CC-0777-10-24"	805018/03
CC-0777-11-18"	805018/03
CC-0777-12-18"	805018/03
CC-0779-01-10"	805028/04
CC-0779-02-12"	805028/04
CC-0780-01-8"	805029/03
CC-0780-02-10"	805029/03
CC-0780-03-12"	805029/03
CC-0782-01-14"	804981/01
CC-0782-02-20"	804981/01
CC-0782-02-20"	805029/03
CC-0784-01-16"	804981/01
CC-0784-06-20"	804981/00
CC-0784-06-20"	805008/05
CC-0785-01-8"	805028/04
CC-0785-02-6"	805028/04
CC-0785-16-6"	805028/04
CC-0785-01-6"	805028/04

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CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0787-01-6"	805029/03
CC-0788-01-12"	805029/03
CC-0788-02-8"	805029/03
CC-0790-21-6"	805028/04
CC-0791-11-6"	805029/03
CC-0794-01-12"	804982/01
CC-0794-01-12"	805017/05
CC-0794-02-10"	804982/01
CC-0794-02-10"	805017/05
CC-0794-02-10"	805016/04
CC-0795-01-12"	804981/01
CC-0795-01-12"	805017/05
CC-0795-02-10"	804981/01
CC-0795-02-10"	805017/05
CC-0797-01-14"	805016/04
CC-0797-02-24"	805016/04
CC-0797-03-24"	805016/03
CC-0797-04-14"	805016/03
CC-0798-01-24"	805016/04
CC-0798-02-12"	805028/04
CC-0798-04-12"	805028/04
CC-0798-05-6"	805028/04
CC-0798-16-20"	805016/04
CC-0798-16-20"	805028/04

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0798-16-20"	804992/01
CC-0798-17-24"	805016/04
CC-0799-01-20"	805016/04
CC-0813-01-6"	805018/03
CC-0813-02-8"	805018/03
CC-0813-02-8"	805013/06
CC-0814-01-4"	805018/03
CC-0814-01-4"	805012/08
CC-0816-01-6"	805018/03
CC-0816-01-6"	805013/06
CC-0816-05-8"	805018/03
CC-0816-05-8"	805013/06
CC-0818-01-6"	805029/03
CC-0891-03-8"	805028/04
CC-0822-11-6"	805028/04
CC-0824-04-6"	805029/03
CC-0825-04-6"	805029/03
CC-0827-01-12"	805028/04
CC-0827-06-12"	805028/04
CC-0827-07-2"	805016/04
CC-0827-07-20"	805028/04
CC-0827-07-20"	804982/01
CC-0827-08-24"	805016/04

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0827-09-18"	805016/04
CC-0827-19-18"	805016/04
CC-0827-23-24"	805016/04
CC-0827-01-12"	805028/04
CC-0827-06-12"	805028/04
CC-0827-07-20"	805016/04
CC-0827-07-20"	805028/04
CC-0827-07-20"	804982/01
CC-0827-08-24"	805016/04
CC-0827-09-18"	805016/04
CC-0827-19-18"	805016/04
CC-0827-23-24"	805016/04
CC-0827-45-6"	805028/04
CC-0828-01-20"	804982/01
CC-0828-01-20"	805028/04
CC-0828-02-14"	804982/01
CC-0828-03-18"	804982/01
CC-0828-03-18"	805023/05
CC-0829-01-16"	804982/01
CC-0829-02-20"	804982/01
CC-0829-02-20"	805008/06
CC-0833-01-14"	804982/01
CC-0833-02-20"	804982/01
CC-0833-02-20"	805028/04

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CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
COMPONENT COOLING	
CC-0833-07-18"	804982/01
CC-0833-07-18"	805023/05
CC-0835-01-16"	804982/00
CC-0835-06-20"	804982/01
CC-0835-06-20"	805008/06
CC-0836-01-4"	805016/04
CC-0838-01-10"	804981/01
CC-0838-01-10"	805018/03
CC-0838-01-10"	805017/05
CC-0838-02-12"	804981/01
CC-0838-02-12"	805017/05
CC-0839-01-6"	805029/03
CC-0840-01-10"	805029/03
CC-0840-02-8"	805029/03
CC-0857-02-6"	805028/04
CC-0865-16-20"	805016/04
CC-0866-07-20"	805018/03

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
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CONDENSATE SYSTEM

CO-4080-01-24"	202077
CO-4081-01-8"	202077
CO-4082-01-8"	202077

CHEMICAL & VOLUME CONTORL

CS-0419-01-6"	805013/06
CS-04020-01-6"	805013/06
CS-0421-01-6"	805013/06
CS-0422-01-6"	805013/06
CS-0423-01-6"	805013/06

DIESEL GENERATOR AIR SYSTEM

DG-4387-01-6"	202102/05
DG-4387-02-6"	202102/05
DG-4389-01-6"	202102/05
DG-4389-02-6"	202102/05
DG-4397-01-6"	202102/05
DG-4389-01-6"	202102/05
DG-4400-01-6"	202102/05
DG-4401-01-6"	202102/05
DG-4403-01-10"	202103/05

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
DIESEL GENERATOR AIR SYSTEM	
DG-4403-02-10"	202103/05
DG-4403-03-10"	202103/05
DG-4403-04-8"	202103/05
DG-4404-01-6"	202103/05
DG-4405-01-8"	202103/05
DG-4405-02-10"	202103/05
DG-4405-03-10"	202103/05
DG-4405-04-10"	202103/05
DG-4408-01-6"	202103/05
DG-4415-01-10"	202103/05
DG-4415-02-10"	202103/05
DG-4415-03-10"	202103/05
DG-4415-04-8"	202103/05
DG-4416-01-6"	202103/05
DG-4417-01-8"	202103/05
DG-4417-02-10"	202103/05
DG-4417-03-10"	202103/05
DG-4417-04-10"	202103/05
DG-4420-01-6"	202103/05
DG-4427-01-6"	202102/05
DG-4428-01-6"	202102/05

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
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FEEDWATER SYSTEM

FW-4610-16-4"	202076
FW-4612-01-6"	202076
FW-4613-01-8"	202076
FW-4632-02-6"	202076

MAIN STEAM SYSTEM

MS-4000-09-6"	202074/07
MS-4001-09-6"	202074/07

SPENT FUEL POOL COOLING & CLEAN UP SYSTEM

SF-1701-02-12"	805017/05
SF-1701-03-8"	805017/05
SF-1701-04-8"	805017/05
SF-1701-05-12"	805017/05
SF-1702-02-8"	805017/05
SF-1702-03-10"	805017/05
SF-1703-01-10"	805017/05
SF-1703-02-8"	805017/05
SF-1703-03-10"	805017/05
SF-1703-04-10"	805017/05
SF-1703-05-8"	805017/05
SF-1704-01-6"	805017/05

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
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SPENT FUEL POOL COOLING & CLEANUP SYSTEM

SF-1704-02-8"	805017/05
SF-1704-03-10"	805017/05
SF-1704-07-8"	805017/05

SERVICE WATER SYSTEM

SW-1801-01-24"	805033/06
SW-1801-02-24"	805033/06
SW-1801-03-24"	805033/06
SW-1801-03-24"	805019/07
SW-1801-04-24"	805019/07
SW-1801-05-24"	805033/06
SW-1801-05-24"	805019/07
SW-1801-07-20"	805033/06
SW-1801-11-6"	805019/07
SW-1801-13-24"	805019/07
SW-1801-14-24"	805019/07
SW-1802-01-24"	805033/06
SW-1802-01-24"	805019/07
SW-1802-02-24"	805033/06
SW-1802-03-24"	805033/06
SW-1802-03-24"	805019/07
SW-1802-04-24"	805019/07
SW-1802-05-24"	805019/07

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
SERVICE WATER SYSTEM	
SW-1802-05-24"	805016/04
SW-1802-07-24"	805033/06
SW-1802-08-20"	805033/06
SW-1802-13-24"	805019/07
SW-1802-14-24"	805019/07
SW-1806-01-16"	805019/07
SW-1806-02-12"	805019/07
SW-1806-04-10"	805019/07
SW-1808-01-16"	805019/07
SW-1808-02-10"	805019/07
SW-1810-01-24"	805018/03
SW-1810-01-24"	805019/07
SW-1810-02-24"	805019/07
SW-18'0-03-24"	805019/07
SW-1810-12-24"	805019/07
SW-1811-02-16"	805019/07
SW-1811-03-16"	805019/07
SW-1811-06-10"	805019/07
SW-1811-07-16"	805019/07
SW-1812-01-24"	805019/07
SW-1812-01-24"	805016/04
SW-1812-02-24"	805019/07
SW-1812-03-24"	805019/07

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
SERVICE WATER SYSTEM	
SW-1812-12-32"	805019/07
SW-1813-01-16"	805019/07
SW-1813-02-16"	805019/07
SW-1813-03-16"	805019/07
SW-1813-06-10"	805019/07
SW-1814-01-24"	805019/07
SW-1814-02-32"	805019/07
SW-1814-05-24"	805019/07
SW-1815-01-32"	805019/07
SW-1815-05-32"	805019/07
SW-1816-01-24"	805033/06
SW-1816-02-24"	805033/06
SW-1816-03-24"	805033/06
SW-1816-04-24"	805033/06
SW-1816-05-20"	805033/06
SW-1817-01-24"	805033/06
SW-1817-02-24"	805033/06
SW-1817-03-24"	805033/06
SW-1817-04-24"	805033/06
SW-1817-05-20"	805033/06
SW-1818-01-24"	805019/07
SW-1818-02-24"	805019/07
SW-1818-03-24"	805019/07

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/REV</u>
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SERVICE WATER SYSTEM

SW-1818-04-24"	805019/07
SW-1818-05-24"	805019/07
SW-1818-06-24"	805019/07
SW-1818-07-24"	805019/07
SW-1818-08-24"	805019/07
SW-1818-09-24"	805019/07
SW-1818-11-24"	805019/07
SW-1820-01-24"	805019/07
SW-1820-02-24"	805019/07
SW-1820-03-24"	805019/07
SW-1820-04-24"	805019/07
SW-1820-05-24"	805019/07
SW-1820-06-24"	805019/07
SW-1820-07-24"	805019/07
SW-1820-08-24"	805019/07
SW-1820-09-24"	805019/07
SW-1820-11-24"	805019/07
SW-1821-02-24"	805019/07
SW-1821-04-24"	805019/07
SW-1823-01-42"	805033/06
SW-1823-02-42"	805033/06
SW-1827-01-24"	805019/07
SW-1827-01-24"	805018/03
SW-1827-02-24"	805019/07

TABLE B
CLASS 3 PIPING FOR
SNUBBER TEST & HANGER EXAMINATIONS

<u>LINE NUMBER</u>	<u>P & ID/RE /</u>
SERVICE WATER SYSTEM	
SW-1833-01-24"	805019/07
CONTAINMENT SPRAY SYSTEM	
CBS-1223-01-6"	805023/05
CBS-1224-01-6"	805023/05
CBS-1224-02-6"	805023/05