

The Cleveland Electric Illuminating Company

PEPBY OPERATIONS MANUAL

Inservice Examination Program

TITLE: INSERVICE EXAMINATION PROGRAM

REVISION: 1 EFFECTIVE DATE: 1-10-92

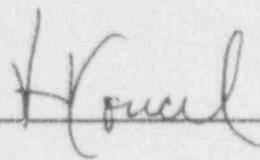
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Inservice Examination Program

ISEP

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10CFR50.59 Applicability Check

	Yes	No
1. Is there a change to the plant as described in the USAR? Reason: <u>THERE IS NO CHANGE TO THE PLANT AS DESCRIBED IN THE USAR. CONFORMS TO USAR SECTIONS 3.2, 3.4, 3.9.3, 4.6.3, 5.2.4, 6.6 AND IMPLEMENTS CBS OF 10CFR50.55(g)</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is there a change to a procedure/instruction as described in the USAR? Reason: <u>THERE IS NO CHANGE TO PROCEDURE OR INSTRUCTION AS DESCRIBED IN USAR SECTIONS 3.2, 3.4, 3.4.3, 4.6.3, 5.2.4, 6.6.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is there a test or experiment not described in the USAR that might affect the safe operation of the plant? Reason: <u>THERE ARE NO TESTS OR EXPERIMENTS NOT DESCRIBED IN THE USAR. CONFORMS TO USAR SECTIONS 3.2, 3.4, 3.9.3, 4.6.3, 5.2.4, 6.6 AND CBS.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is there a change to the Technical Specifications or Operating License? Reason: <u>NO CHANGES TO TECH SPEC OR THE OPERATING LICENSE AND CONFORMS TO Tech Spec Sect 3.4.8 + 4.0.5.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there an effect on the environment or change to the Environmental Protection Plan? Reason: <u>THIS PROGRAM HAS NO EFFECT ON THE ENVIRONMENT OR CHANGE TO THE EPP.</u>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Answers to all questions are "No", no potential for an Unreviewed Safety or Environmental Question exists, no further review required.		
<input type="checkbox"/> Answers to Questions 1, 2, or 3 marked "YES", preparation of a safety evaluation is required. Safety Evaluation No. _____		
<input type="checkbox"/> Answer to Question 4 marked "YES", preparation of a license amendment is required. Letter No. _____		
<input type="checkbox"/> Answer to Question 5 marked "YES", preparation of an environmental evaluation is required. Environmental Eval. No. _____		
Prepared/Date <i>Chadley W. [Signature]</i> 01/03/92	Reviewed/Date <i>[Signature]</i> 1/3/92	Manager Approved/Date <i>[Signature]</i> 1/3/92

SCOPE OF REVISION:

- Rev. 1 -
1. TC's from previous revision that were evaluated for incorporation - TCN-1.
  2. Deleted, Added, or Modified components in accordance with completed design changes. (ex., snubber optimization DCP's)
  3. Deleted components beyond the ISI boundaries.
  4. Deleted Relief Request IR-016 and IR-017.
  5. Incorporated Revised Relief Requests IR-004, IR-012, IR-018, IR-021, IR-022, PT-001, PT-002, PT-003 and new Relief Requests IR-024, IR-025 and IR-026.

SCOPE OF REVISION (Cont.):

- Rev. 1 -
6. Changed examination method for carbon steel attachment welds from PT to MT.
  7. Identified Examinations which are not routinely scheduled, but instead are situational requirement exams.
  8. Incorporated scheduling changes.
  9. Added notes at the end of Examination Categories which explain examination or scheduling peculiarities.
  10. Incorporated revisions identified in the ISEP program review completed in response CR 89-382.
  11. Incorporated revised 305 P&ID and isometric drawings.
  12. Editorial Corrections.
  13. Revised in its entirety.

## INSERVICE EXAMINATION PROGRAM

### 1.0 INTRODUCTION

#### 1.1 Purpose

This program provides methods of verification of the structural integrity of components subject to the examination requirements delineated in the ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection.

#### 1.2 Scope

The Inservice Examination Program (ISEP) delineates the components subject to non-destructive and visual examination during the first inspection interval at the Perry Plant, Unit 1. Components requiring examination are vessels, pumps, valves, piping systems and their supports.

This program is subject to change. Changes will be affected via request for relief from examination or miscellaneous document revisions which may be submitted during the inspection interval. The program will be updated every 10 years or when necessary to reflect optional OWNER upgrades or regulatory commitments.

The Inservice Testing Program and the associated testing requirements for pumps, valves, and snubber functional tests are delineated in site administrative procedures and are not referenced within this document.

#### 1.3 Compliance

The date for issuance of the low power operating license for PNPP Unit 1 was March 18, 1986. The facility operating license number is NPF-45. This license restricted the plant to power levels not to exceed 5 percent full power or 178 megawatts thermal. As of November 13, 1986, the NRC issued a full power operating license for Unit 1. The facility's full power license number is NPF-58 with an expiration date of March 18, 2026.

In accordance with 10CFR50.55a(g)(4)(i), the inservice examination of components subject to examination during the initial inspection interval shall comply with the requirements of the Code referenced in 10CFR50.55a(b) on the date 12 months prior to the date of issuance of the operating license. The referenced code associated with this stipulation is the 1980 edition of the ASME Boiler and Pressure Vessel Code, Section XI.

Effective on October 28, 1985, the NRC amended the Code reference by updating to the 1983 edition of ASME B&PV Section XI including addenda through the Summer 1983. Adoption of this amendment permits the use of improved methods for inservice inspection and has been elected as the basis for the Inservice Examination Program Plan for Unit 1.

The ISEP complies with the requirements of Section XI of the ASME B&PV Code, 1983 Edition including Addenda through the Summer 1983, hereinafter referred to as Section XI.

Modifications to Section XI requirements include, but are not limited to the following:

- a. ASME Code Case N-408, "Alternate Rules for Examination of Class 2 Piping, Section XI, Division 1."
- b. Applicable NUREG's and Regulatory Codes as addressed in Section 1.8 of the USAR.
- c. Requests for Relief from Examination granted by the USNRC.
- d. Augmented Examinations due to site commitments.

The commencement of the initial inspection interval for Unit 1 coincided with the date of commercial operation. Perry Unit 1 was declared as being in commercial operation at 1200 hours on November 18, 1987.

At the completion of the initial inspection interval (120 months following start of commercial operation) the Inservice Examination Program will be updated to the subsequent edition and addenda of the Code as adopted by the regulatory authority.

#### 1.4 Glossary

##### 1.4.1 ANII

A person who is employed and has been qualified by an Authorized Inspection Agency to verify that examinations, tests, and repairs (that do not include welding or brazing) are performed in accordance with the rules and requirements of ASME Section XI.

##### 1.4.2 Component

Denotes items in the plant such as vessels, pumps, valves, piping systems and component supports.

##### 1.4.3 Component Standard Support

A support consisting of one or more generally mass-produced units usually referred to as catalog items.

##### 1.4.4 Component Support

A metal support designed to transmit loads from a component to the load-carrying building or foundation structure. Component supports include piping supports and encompass those structural elements relied upon to either support the weight or provide structural stability to components.

##### 1.4.5 Defect

A flaw (imperfection or unintentional discontinuity) of such size, shape, orientation, location, or properties as to be rejectable.

- 1.4.6      Discontinuity
- A lack of continuity or cohesion; an interruption in the normal physical structure of material or a product.
- 1.4.7      Examination
- Denotes the performance of visual observations and nondestructive testing, such as radiography, ultrasonic, eddy current, liquid penetrant, and magnetic particle methods.
- 1.4.8      Flaw
- An imperfection or unintentional discontinuity that is detectable by nondestructive examination.
- 1.4.9      Form NIS-1
- Owner's Report for Inservice Inspection; it is the certification for Class 1 and Class 2 refueling outage examination results. This form becomes the cover page for the submittal of the ISI Summary Report.
- 1.4.10     Form NIS-2/NR-1
- Owner's Report for Repair and Replacement; it is the certification for proper repair or replacement of components. This form becomes part of the ISI Summary Report.
- 1.4.11     Imperfection
- A condition of being imperfect; a departure of a quality characteristic from its intended condition.
- 1.4.12     Indication
- The response or evidence from the application of nondestructive examination.
- 1.4.13     Inservice Examination
- Examinations performed on components and component parts routinely (periodically) to assure their structural and pressure retaining integrity.
- 1.4.14     Inservice Examination Summary Report
- The report that is prepared at the completion of each refueling outage as specified within ASME Code, Section XI, IWA-6200. This report is to be filed with the enforcement and regulatory authorities within 90 days upon returning to commercial operation (completion of the refueling outage).

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Denotes the performance of visual observations and nondestructive testing, such as radiography, ultrasonic, eddy current, liquid penetrant, and magnetic particle methods.

1.4.8 Flaw

An imperfection or unintentional discontinuity that is detectable by nondestructive examination.

1.4.9 Form NIS-1

Owner's Report for Inservice Inspection; it is the certification for Class 1 and Class 2 refueling outage examination results. This form becomes the cover page for the submission of the ISI Summary Report.

1.4.10 Form NIS-2/NR-1

Owner's Report for Repair and Replacement; it is the certification for proper repair or replacement of components. This form becomes part of the ISI Summary Report.

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1.4.12 Indication

The response or evidence from the application of nondestructive examination.

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corrosion, wear, erosion, or the loss of integrity at bolted or welded connections. Also, the examination shall include conditions that could affect operability or functional adequacy (snubbers and spring type supports).

#### 1.4.21 Volumetric Examination

A volumetric examination indicates the presence of discontinuities throughout the volume of material and may be conducted from either the inside or outside surface of a component [e.g., radiographic (RT) or ultrasonic (UT)].

### 1.5 System Classifications

In order to apply the rules and requirements of Section XI, the systems and components throughout the plant are classified by combining their safety and quality group classifications and applying the guidelines of Regulatory Guide 1.26 and NUREG-0800.

#### 1.5.1 Class 1

The rules of Section XI Article IWB apply to components whose systems are Class 1.

This classification applies to Safety Class 1 and Quality Group A systems located within the reactor coolant pressure boundary and core support structure and whose failure could result in a loss of reactor coolant.

#### 1.5.2 Class 2

The rules of Section XI Article IWC apply to components whose systems are Class 2.

This classification applies to Safety Class 2 and Quality Group B structures, systems and components, other than cooling water systems, that are not safety Class 1 but are necessary to accomplish the following functions:

1. Insert negative reactivity to shutdown the reactor.
2. Prevent rapid insertion of positive reactivity.
3. Maintain core geometry appropriate to all plant process conditions.
4. Provide emergency core cooling.
5. Provide and maintain containment integrity.
6. Remove residual heat from the reactor.

7. Store spent fuel.

NOTE: Piping connections having a NPS 3/4 inch or smaller, that are part of the reactor coolant pressure boundary, are also Class 2.

1.5.3 Class 3

The rules of Section XI Article IWD apply to components whose systems are Class 3.

This classification applies to Safety Class 3 and Quality Group C systems and components which contain water, steam, and radioactive waste, and are not Class 1 or Class 2, but accomplish the following functions:

1. Process radioactive waste whose failure would result in release to the environment of gas, liquid, or solids resulting in a single dose greater than the limits specified in 10CFR100.
2. Provide or support any safety system function.
3. Remove decay heat from spent fuel.

1.5.4 Supports

The rules of Section XI Article IWF apply to components supports whose systems are Class 1, 2, 3 or Augmented.

1.5.5 Augmented

Augmented items are those which are subject to examination requirements as the result of Perry commitments to various documents, e.g., NUREG's, Regulatory Guides, SIL's, etc. Augmented items can have any code classification.

1.6 Examination Methods

1.6.1 Basic Examination Methods

Perry will employ three basic types of examinations for inservice examination purposes. They are visual, surface and volumetric. The specific examination method to be used is listed within each inservice examination table.

Where surface preparation is required, a mechanical method may be employed. Such surfaces shall be prepared by removing loose scale and debris and any other foreign item that may mask indications. Care shall be taken so as not to reduce the wall thickness during this process.

1.6.2 Visual Examinations, VT-1

This method is used to determine the condition of the part, component, or surface, for conditions such as wear, cracks, corrosion, erosion, or physical damage of the part.

The VT-1 examination method can be performed directly when access is sufficient to place the eye within 24 inches and at an angle not less than 30 degrees to the surface. Mirrors can be used to supplement angle of vision. Remote visual examinations using optical aids, binoculars or cameras may be substituted for direct examination. The Perry Level III will be responsible for determination of the most effective method.

1.6.3 Visual Examination, VT-2

This method is used to locate and quantify leakage from pressure retaining components with or without leakage collection systems.

1.6.4 Visual Examination, VT-3

PNPP uses the VT-3 description as amended in the Winter 1984 Addenda to Section XI. The Winter 1984 Addenda combines descriptions for VT-3 and VT-4 into one, "IWA-2218 Visual Examination VT-3."

This method is used to determine the general mechanical and structural condition of components and their supports.

The VT-3 examination includes examinations for conditions that could affect operability or functional adequacy of the component.

A VT-3 examination may be performed remotely with or without optical aids to verify the structural integrity of the component.

1.6.5 Surface Examination

A surface examination is conducted to determine the presence of surface cracks or discontinuities in a component.

It may be conducted by either magnetic particle or liquid penetrant methods. These two methods can be interchangeable where applicable.

1.6.6 Volumetric Examination

A volumetric examination is used to determine the presence of discontinuities throughout the volume of material and may be conducted from the inside or the outside surface of a component.

The examination methods used can be radiography, ultrasonic, or eddy current.

1.6.7 Alternate Examination

Alternate examination methods may be used as substitutes providing the ANII is satisfied that the results are demonstrated to be equivalent or superior to the specified method.

## 1.7 Instructions and Procedures

Implementation of inservice examinations require two types of procedures. The implementing procedure is an instruction labeled as an Inservice Inspection Instruction (ISI). The performance procedure is a nondestructive examination (NDE) for the specific method.

### 1.7.1 Inservice Inspection Instructions

This instruction permits tracking, scheduling, and documenting the performance of examinations. Instructions are not used to perform work or change plant equipment operating status. The instructions will be used to route (by Attachment) the refueling outage examination plans and the Inservice Inspection Summary Report for proper documentation storage.

### 1.7.2 Non-Destructive Examinations

NDE procedures are issued to perform a specific NDE method using a defined technique. These procedures shall not perform work or effect plant equipment status. NDE procedures must be acceptable to the Perry Level III Examiner and the Authorized Nuclear Inservice Inspector (ANII). Site NDE procedures are written, maintained, and reviewed by the Perry Nuclear Assurance Department.

Appropriate vendor NDE procedures are reviewed and accepted as Perry procedures prior to utilization on site. Vendor procedures should be of a temporary nature and be in effect for the duration of the refueling outage.

## 1.8 Personnel Qualifications

Personnel performing nondestructive examinations shall be qualified and certified in accordance with Perry procedures or an approved vendor's program.

Personnel performing special nondestructive examinations such as IGSCC detection shall be trained, qualified and certified as required for the specific activity.

## 1.9 Evaluation Criteria (Characterization Process and Disposition)

Indications detected during inservice examinations, will be evaluated by applying the rules of Section XI.

### 1.9.1 Evaluation

Acceptance standards for a particular component, Examination Category, or examination method not specified in Section XI, shall be evaluated per the acceptance standards specified in the Section III edition applicable to the construction of the component to determine disposition. Such disposition will be subject to review by the enforcement authority at the site.

All observed or calculated dimension values of a component thickness and of flaws detected by nondestructive examinations shall be compared to the evaluation standard listed in Section XI.

#### 1.9.2 Flaw Characterization

Flaws detected by the performance of nondestructive examinations shall be sized by the bounding rectangle or square for the purpose of description and dimensioning.

1. The length 'l' of the rectangle or one side of the square shall be drawn parallel to the inside pressure retaining surface of the component.
2. The depth of the rectangle or one side of the square shall be drawn normal to the inside pressure retaining surface of the component and shall be denoted as 'a' for a surface flaw and '2a' for a subsurface flaw.
3. The aspect ratio of a flaw is defined by  $a/l$ . The flaw aspect ratio should not exceed 0.5.

A listing of flaw characterizations as provided in Section XI are as follows:

1. Surface Planar Flaws
2. Subsurface Planar Flaws
3. Multiple Planar Flaws
4. Nonplanar Flaws
5. Parallel Planar Flaws
6. Laminar Flaws
7. Linear Flaws (Detected by surface or volumetric examinations)
8. Multiple Nonaligned Coplanar Flaws
9. Multiple Aligned Separate Flaws

#### 1.9.3 Indication Characterization Process

The indication characterization process includes identification, evaluation and disposition.

Indications are identified by the application of a nondestructive examination. These indications may be a result of a discontinuity within a component. Recordable indications identified during the course of a nondestructive examination shall be evaluated by an NDE Level III in the discipline which revealed the initial indication.

Indications identified as an imperfection or unintentional discontinuity are classified as flaws.

Flaws are also characterized to determine their geometry. Preservice examination results should be utilized, as applicable, in the determination of the flaw's geometrical characteristics.

The geometrical characteristics of the flaw shall be compared to the Section XI acceptance standards.

Flaws equal to or less than the standards are acceptable with no further action required. Flaws greater than the standards are considered as defects and must undergo further evaluation and disposition.

Defect evaluation and disposition processes are controlled by the issuance of a nonconformance report against the defective component.

#### 1.9.4 Defect Disposition

##### Rejectable Flaws

Defects are flaw indications whose characteristics are such that they are rejectable in accordance with the acceptance standards listed in Section XI. A rejectable flaw places the item's structural or pressure retaining integrity in question. Appropriate actions must be initiated to ensure the safe operation of the plant.

#### 1.9.5 Nonconformance Reports

Defects shall be tracked and resolved by generating a nonconformance report against the component with the defect. A nonconformance report initiates the appropriate action through Perry Operations Section for evaluation of technical specifications (i.e., T'S 3.4.8) for LCO applicability.

Nonconformance reports issued against defects are routed to the Mechanical Design Section (MDS) for disposition. MDS shall determine if the defect is "acceptable for continued service" (i.e., utilizing analytical/fracture mechanics evaluation techniques per IWB-3600) or rejectable and disposition in accordance with Perry's nonconformance procedure, PAP-1501.

#### 1.9.6 Use As Is

Defects considered acceptable shall be labeled as "Acceptable for Continued Service" and monitored by scheduling successive examinations for monitoring further growth or degradation.

#### 1.9.7 Rejectable Defects

Rejectable defects shall be repaired, replaced or removed following the requirements of the Repair/Replacement Program (NPAR Manual). A replacement PSI shall be performed on the repaired area which includes the examination method that originally detected the defect.

### 1.10 Repair Cycle

A repair as implemented by Section XI may include welding or grinding on a component to correct a defect. Repair examinations should assist in satisfying the requirements essential to Section XI, Repair Procedures. Weld preparation methods are outside the scope of a repair.

#### 1.10.1 NR&R Manual

Repair cycle examination requirements, as governed by the NR&R Manual, shall include: the examination method that revealed the flaw, description of the flaw, method of measurement of cavity created, and method of dimensional reference point measurements before and after repair.

#### 1.10.2 Integrity

Upon completion of the repair and associated examinations, the structural and pressure retaining integrity of the item is assured. Repair examination requirements, with the exception of pressure testing, are governed by the OWNER's design specification and construction code.

#### 1.10.3 Re-Establishing PSI

Prior to returning the component to service, the pre-service examination requirements shall be completed if not performed under the repair examinations.

### 1.11 Replacement Cycle

A replacement as implemented by Section XI may include a spare or renewal component, appurtenances, subassemblies, components or systems procured for installation in a nuclear power plant. Replacement includes the addition of component or system changes such as rerouting piping.

#### 1.11.1 NR&R Manual

Replacement parts and components, as governed by the NR&R Manual, shall meet all the requirements of fabrication and construction code.

OWNER fabricated components shall also meet the OWNER's design specification and construction code thus satisfying examination requirements.

#### 1.11.2 Re-Establishing PSI

Prior to returning the component to service, the preservice examination requirements should be completed if not included in the replacement examinations.

## 1.12 Scheduling Criteria

### 1.12.1 Categories

Numerous components are subject to examination and testing during the inspection interval. The methods of examination for components and parts of pressure retaining boundaries comply with the requirements delineated in Section XI. Section XI uses categories to determine the examination requirements for each component. Each category is subdivided into item numbers for ease in determining the extent of examination. Class 1, 2, 3, and component supports are listed for examination in accordance with their proper examination category. Components and supports identified as "AUGMENTED" within this document are listed for examination in accordance with their specific commitments and are generally identified with an item number such as X0.1, X0.2, X0.3, etc.

### 1.12.2 Inspection Plans and Schedules

The initial inspection plan is prepared to address systems and components subject to examination during the inspection interval. The inspection plan lists an implementation schedule based on percentage requirements delineated in ASME Section XI.

The Unit 1 inspection program and schedule for systems, components and supports follow the requirements of ASME Section XI, Inspection Program B.

Inspection Program B permits the inspection interval to be increased or decreased by as much as one year. If the plant is out of service continuously for a period of 6 months or more, the inspection interval may be extended for a period equivalent to the outage.

With the exception of the examinations that may be deferred until the end of the inspection interval, the required examinations shall be completed during each successive inspection interval.

### 1.12.3 Components Subject to Examination

Components identified within this document are subject to the examination requirements delineated in ASME Section XI.

These components include items classified as ASME Class 1, 2, 3 and Augmented; such as vessels, piping systems, pumps, valves, and core support structures and storage tanks, including their respective supports. The selection of components for the ISEP is subject to review by the regulatory (NRC) and enforcement authorities (State of Ohio).

The Inservice Examination Program utilizes manually and computer generated refueling outage plans to identify components requiring examination during each specific outage. These items are selected by the Lead ISI Engineer and approved by the Systems Engineering Section Manager.

#### 1.12.4 Code Requirements

Scheduling examinations for the ISE program is based upon the percentage requirements of ASME Section XI.

#### 1.12.5 Inspection Intervals

The duration of each inspection interval is 10 years or 120 months. The inspection interval is divided into three periods. The inspection periods are used for determination of component examination percentage criteria.

#### 1.12.6 Outages

The examinations are scheduled to coincide with the plant's refueling outages. A standard refueling outage is tentatively scheduled to occur at the end of a fuel cycle which is approximately 18 months in duration. A grace period of plus or minus one year is granted by ASME Section XI so that the inservice examinations can correspond with refueling outages.

With refueling outages scheduled at 18 month intervals and an estimated duration of 60 days for each refueling outage, six refueling outages are estimated to occur during the first inspection interval. The ISEP divides the examination schedule into outage plans by examination period in order to calculate percentages and meet Program B requirements.

#### 1.12.7 Percentages

With the exception of the examinations that may be deferred until the end of the inspection interval, the required examinations will be completed during the inspection interval in accordance with the percentage table listed below:

<u>Calendar Months of Plant Service</u>	<u>Minimum Examinations Completed, Percentage</u>	<u>Maximum Examinations Credited, Percentage</u>
0-36	16	34
37-84	50	67
85-120	100	100

### 1.13 Reporting (ISI Summary Reports and Relief Requests)

#### 1.13.1 ISI Summary Report

Within 90 days of the return to commercial operation following a refueling outage, a summary report for Class 1 and 2 pressure retaining components and their supports shall be filed with the enforcement and regulatory authorities.

The ISI summary report consists of the NIS-1 Form, supplemental listing of refueling outage examinations performed, and applicable NIS-2/NR-1 Forms.

### 1.13.2 Relief Requests

Where compliance to Section XI requirements are impractical, a formal application will be submitted to the Nuclear Regulatory Commission (NRC) (i.e., submittal of information to support determinations) requesting relief from the examination requirements be granted per

10CFR50.55a(g)(5)(iii). The NRC will evaluate determinations of noncompliance and either grant relief or impose alternative requirements per 10CFR50.55a(g)(6)(i). Any new or updated relief requests will be submitted to the NRC. A copy of the latest revision of relief requests will be maintained within this document.

## 2.0 IWB (CLASS 1) EXAMINATIONS

Class 1 examination categories are identifiable by a 'B' as the first assigned letter and are as follows:

Examination Category	Examination Area (Examination Method)
B-A	Pressure Retaining Welds in Reactor Vessels (VOL. SUR.)
B-B	Pressure Retaining Welds in Vessels other than Reactor Vessels (NOT APPLICABLE TO PERRY)
B-D	Full Penetration Welds of Nozzles in Vessels (Inspection Program B) (VOL.)
B-E	Pressure Retaining Partial Penetration Welds in Vessels (VT-2)
B-F	Pressure Retaining Dissimilar Metal Welds (VOL., SUR.)
B-G-1	Pressure Retaining Bolting Greater Than 2 Inches in Diameter (VOL., SUR., VT-1)
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter (VT-1)
B-H	Integral Attachments for Vessels (VOL. or SUR.)
B-J	Pressure Retaining Welds in Piping (VOL., SUR.)
B-K-1	Integral Attachments for Piping, Pumps and Valves (VOL. or SUR.)
B-L-1	Pressure Retaining Welds in Pump Casings (NOT APPLICABLE TO Perry)
B-L-2	Pump Casing (VT-3)
B-M-1	Pressure Retaining Welds in Valve Bodies (VOL. or SUR.)
B-M-2	Valve Bodies (VT-3)
B-N-1	Interior of Reactor Vessel (VT-3)
B-N-2	Integral Welded Core Support Structures and Interior Attachments to Reactor Vessel (VT-1 or VT-3)
B-N-3	Removable Core Support Structures (VT-3)
B-O	Pressure Retaining Welds in Control Rod Housings (VOL. or SUR.)

Examination  
Category

Examination Area (Examination Method)

---

B-P All Pressure Retaining Components (VT-2)  
B-Q Steam Generator Tubing (NOT APPLICABLE TO PNPP)

## 2.1 Exemptions

Per the provisions of Section XI, components may be exempted from specific examination requirements of the Inservice Examination Program Plan providing that they are within the exemption criteria. Listed below are the exemptions applicable to the ISEP with the exception of IWB-1220(a). The phrase in IWB-1220(a), "under normal plant operating conditions" is meant to exclude all ECCS systems. The Perry Unit 1 normal makeup systems are the Control Rod Drive (C11), and the Feedwater/Condensate Transfer systems (N27/N21/P11). These systems are not operable from on-site emergency power and are therefore not exempt from the ISEP.

The following components are exempted from volumetric and surface examination requirements.

1. Components connected to the reactor coolant system and part of the reactor coolant pressure boundary that are of such size and shape so that upon postulated rupture the resulting flow of coolant from the reactor coolant system under normal plant operating conditions is within the capacity of makeup systems which are operable from on-site emergency power [IWB-1220(a)].
2. Piping of 1 inch nominal pipe size and smaller [IWB-1220(b)(1)].
3. Components and their connections in piping of 1 inch nominal pipe size and smaller [IWB-1220(b)(2)].
4. Reactor vessel head connections and associated piping, 2 inches nominal pipe size and smaller, made inaccessible by control rod drive penetrations [IWB-1220(c)].

## 2.2 Examination Selection Process

For Examination Categories B-G-1, B-H, B-J, B-K-1, B-L-2, B-M-1 and B-M-2, ASME Section XI delineates criteria which are applied in selecting the components (or areas) to be examined.

### 2.2.1 B-G-1, Pressure Retaining Bolting Greater Than 2 Inches in Diameter

The criteria for selecting the bolting to be examined is:

1. for heat exchangers, piping, pumps, and valves, examinations are limited to bolts and studs on components selected for examination under examination categories B-B, B-J, B-L-1, and B-M-1.

### 2.2.2 B-H, Integral Attachments for Vessels

The criteria for selecting the integral attachments to be examined are:

1. the attachment is on the outside surface of the component and provides component support as defined in NF-1110;
2. the attachment base material design thickness is 5/8" or greater;
3. the attachment weld joins the attachment either directly to the surface of the vessel or to an integrally cast or forged attachment to the vessel.

### 2.2.3 B-J, Pressure Retaining Welds in Piping

The criteria for selecting the piping welds to be examined include, but are not limited to the following:

1. terminal ends in piping connected to the vessel;
2. terminal ends in piping connected to other components where stress levels exceed the following limits under loads associated with specific seismic events and operational conditions:
  - a. Primary plus secondary stress intensity range of 2.4 Sm;
  - b. Cumulative usage factor (U) of 0.4;
3. dissimilar metal welds;
4. additional circumferential piping welds such that the total equals 25% of the total number in the system which are not excluded by Section XI, IWB-1220;
5. longitudinal welds intersecting circumferential welds selected for examination.

NOTE: Terminal ends are the extremities of piping runs that connect to structures, components, or pipe anchors, each of which acts as a rigid restraint or provides at least two degrees of restraint to piping thermal expansion.

The selection criteria is applied individually to the Code item numbers as referenced below:

1. Code Item Number: B9.11  
Circumferential welds for piping NPS ≥ 4 inches.
2. Code Item Number: B9.12  
Longitudinal welds for piping NPS ≥ 4 inches.
3. Code Item Number: B9.21  
Circumferential welds for piping NPS < 4 inches.

4. Code Item Number: B9.22  
Longitudinal welds for piping NPS <4 inches.
5. Code Item Number: B9.31  
Branch piping connection welds for piping NPS ≥4 inches.
6. Code Item Number: B9.32  
Branch piping connection welds for piping NPS <4 inches.
7. Code Item Number: B9.40  
Socket welds.

2.2.4 B-K-1, Integral Attachments for Piping, Pumps, and Valves

The criteria for selecting the integral attachments to be examined are:

1. the attachment is on the outside surface of the component and provides component support as defined in NF-1110;
2. the attachment base material design thickness is 5/8" or greater;
3. the attachment weld joins the attachment either directly to the surface of the component or to an integrally cast or forged attachment to the component;
4. only the attachments of piping required to be examined by Examination Category B-J and the welded attachments to associated pumps and valves, integral to such piping.

2.2.5 B-L-2, Pump Casings

The criteria for selecting the pump casings to be examined is:

1. examinations are limited to at least one pump in each group of pumps performing similar functions in the system (see Table 2.2.5-1 below):

Table 2.2.5-1 Class 1 Pumps

<u>SYSTEM</u>	<u>PUMP ID</u>	<u>MANUFACTURER</u>
Reactor Recirculation	B33-C001A *	Byron Jackson
Reactor Recirculation	F33-C001B *	Byron Jackson

\* Similar design, size, function, and service

2.2.6 B-M-1, Pressure Retaining Welds in Valve Bodies, and B-M-2, Valve Bodies

The criteria for selecting the valves to be examined are:

1. examinations are limited to one valve within each group of valves that are of the same construction design and manufacturing method, and that perform similar functions in the system (see Table 2.2.6-1 below):
2. internal surface examinations, for valves with welded bodies, may be performed on the same valves selected for volumetric examination of the welds.

Table 2.2.6-i Class 1 Valve Groupings

GROUPING NUMBER	MANUFACTURING METHOD	VALVE DESIGN	PIPING SYSTEM	FUNCTION	WELDED BODY		VALVE ID NUMBER
					YES	NO	
I	Cast	Safety Relief Valves	Nuclear Boiler System (B21)	Safety Relief	No		B21-P041A
				Safety Relief	No		B21-P041B
				Safety Relief	No		B21-P041C
				Safety Relief	No		B21-P041D
				Safety Relief	No		B21-P041E
				Safety Relief	No		B21-P041F
				Safety Relief	No		B21-P041G
				Safety Relief	No		B21-P041K
				Safety Relief	No		B21-P047B
				Safety Relief	No		B21-P047C
				Safety Relief	No		B21-P047D
				Safety Relief	No		B21-P047F
				Safety Relief	No		B21-P047G
				Safety Relief	No		B21-P047H
				Safety Relief	No		B21-P051A
				Safety Relief	No		B21-P051B
				Safety Relief	No		B21-P051C
				Safety Relief	No		B21-P051D
Safety Relief	No		B21-P051G				
II	Cast	Globe	Nuclear Boiler System (B21)	Isolation	No		B21-P022A
				Isolation	No		B21-P022B
				Isolation	No		B21-P022C
				Isolation	No		B21-P022D
				Isolation	No		B21-P028A
				Isolation	No		B21-P028B
				Isolation	No		B21-P028C
				Isolation	No		B21-P028D
III	Cast	Check	Feedwater (N27)	Isolation	No		B21-P032A
				Isolation	No		B21-P032B
				Isolation	No		N27-P559A
				Isolation	No		N27-P559B

Table 2.2.6-1 Class 1 Valve Groupings (Cont.)

GROUPING NUMBER	MANUFACTURING METHOD	VALVE DESIGN	PIPING SYSTEM	FUNCTION	WELDED BODY		VALVE ID NUMBER
					YES	NO	
IV	Cast	Gate	Feedwater (N2/)	Maintenance Maintenance	No	No	N27-F560A
							N27-F560b
V	Cast	Gate	Reactor Recirculation	Maintenance Maintenance	No	No	B33-F023A
							B33-F023B
VI	Cast	Ball	Reactor Recirculation	Flow Control Flow Control	No	No	B33-F060A
							B33-F060B
VII	Cast	Gate	Reactor Recirculation	Maintenance Maintenance	No	No	B33-F067A
							B33-F067B
VIII	Forged	Gate	Reactor Water Clean Up System	Isolation Isolation	Yes		G33-F001
					Yes		G33-F004
IX	Forged	Gate	Reactor Water Clean Up System	Isolation Isolation	Yes		G33-F100
					Yes		G33-F106
X	Forged	Gate	Reactor Water Clean Up System	Isolation	Yes		G33-F101
XI	Cast	Gate	Residual Heat Removal	Isolation Isolation Maintenance	No	No	E12-F008
						No	E12-F009
						No	E12-F010
XII	Forged	Gate	Residual Heat Removal	Isolation Isolation Isolation Isolation Isolation Isolation	Yes		E12-F039A
					Yes		E12-F039B
					Yes		E12-F039C
					Yes		E12-F042A
					Yes		E12-F042B
					Yes		E12-F042C
XIII	Cast	Check	Residual Heat Removal	Isolation Isolation Isolation	No	No	E12-F041A
						No	E12-F041B
						No	E12-F041C

Table 2.2.6-1 Class 1 Valve Groupings (Cont.)

GROUPING NUMBER	MANUFACTURING METHOD	VALVE DESIGN	PIPING SYSTEM	FUNCTION	WELDED BODY		VALVE ID NUMBER
					YES	NO	
XIV	Forged	Check	Residual Heat Removal	Isolation	Yes		E12-P019
XV	Cast	Globe	Residual Heat Removal	Isolation		No	E12-P023
XVI	Forged	Gate	Low Pressure Core Spray	Isolation Maintenance	Yes Yes		E21-P005 E21-P007
XVII	Cast	Check	Low Pressure Core Spray	Isolation		No	E21-P006
XVIII	Forged	Gate	High Pressure Core Spray	Maintenance	Yes		E22-P036
XIX	Cast	Gate	High Pressure Core Spray	Isolation		No	E22-P004
XX	Cast	Gate	High Pressure Core Spray	Isolation		No	E22-P005
XXI	Forged	Gate	Reactor Core Isolation Cooling	Isolation	Yes		E51-P013
XXII	Forged	Gate	Reactor Core Isolation Cooling	Isolation	Yes Yes		E51-P063 E51-P064
XXIII	Cast	Check	Reactor Core Isolation Cooling	Isolation Isolation		No No	E51-P065 E51-P066

### 2.3 Additional Examinations

Examinations performed during an inspection (outage) which reveals indications exceeding acceptance standards will be extended to include additional components within the same examination category, approximately equal to the number of components examined initially during the inspection period.

Additional examinations which reveal a defect require the performance of the remaining interval scheduled examinations for similar components within the examination category. Additional criteria include:

1. Where examinations were limited to one loop or branch run of a similar configuration the additional examinations shall be extended to the second loop or branch run and approximately equal to the number of components initially examined.
2. If the additional examinations of the second loop or branch run reveals a defect the remaining number of loops or branch runs, performing a similar function, shall also be examined.

### 2.4 Successive Examinations

Successive examinations are performed on components reported as having flaws or relevant conditions and are evaluated as acceptable for continued service. These examinations will be scheduled per Section XI as follows:

Components having flaw indications evaluated as acceptable for continued service, will be scheduled for re-examination during the next three inspection periods.

Flaw indications which remain essentially unchanged for three successive inspection periods will revert to the original schedule of successive inspections.

### 2.5 Relief Requests

When compliance to Code examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for components subject to the examination requirements of ASME Section XI, Article IWB:

IR No. \*

IR-001 R-0	IR-007 R-0
IR-002 R-0	IR-008 R-0
IR-003 R-0	IR-009 R-0
IR-004 R-1	IR-016 - (Deleted)
IR-005 R-0	IR-017 - (Deleted)
IR-006 R-0	IR-018 R-1
	IR-024 R-0
	IR-025 R-0

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-001

I. Identification of Components

System: Reactor Pressure Vessel, Class I

A. Category: B-A, Pressure Retaining Welds

Component Description: (See attached table for component identification numbers)

1. Shell welds (Item No. B1.11, B1.12)
2. Head welds (Item No. B1.21, B1.22)
3. Head to flange (Item No. B1.40)

B. Category: B-D, Full Penetration Welds of Nozzles in Vessels

Component Description: (See attached table for component identification numbers)

1. Nozzle to shell welds (Item No. B3.90)
2. Nozzle inside radius section (Item No. B3.100)

C. Category: B-F, Pressure Retaining Dissimilar Metal Welds

Component Description: (See attached table for component identification numbers)

1. Nozzle to safe end welds (Item No. B5.10)

II. ASME B&PV Section XI Requirements

ASME Code requires 100% volumetric examination of welds and required volume.

III. Relief Requested

Relief requested from 100% volumetric examination (See attached table for percent completion of each specific component) at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the reactor pressure vessel welds was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. All welds were examined in

Perry Nuclear Power Plant Unit 1  
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accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. The Perry Unit 1 reactor vessel had no reportable indications from preservice inspection results.

The pressure boundary passed the required hydrostatic test; following startup testing the plant has operated between 60% and 70% capacity factor for a total of about 250 equivalent full power days between November 1987 and November 1988, without detectable pressure boundary leakage.

Complete examinations meeting the requirements of the ASME Code Section XI will continue to be performed on welds of similar configurations utilizing similar weld techniques, procedures and materials. The inspected welds are subject to the same operating and environmental conditions as the partially examined or unexamined welds.

It is, therefore, reasonable to apply the results from examined welds to the partially examined welds in the attached table.

In addition, catastrophic reactor vessel failure is precluded by avoiding nil ductile temperatures at significant stress levels according to the design, surveillance and operating provisions described in the Perry USAR Sections 5.3.1 and 5.3.2 and the Technical Specifications 3/4.4.6.

In summary, because of initial vessel condition free of reportable indications, successful code hydrotest and operating experience without leakage indications, the capability to examine most vessel welds on a continuing basis, the capability to detect pressure boundary leakage, and protections against brittle reactor vessel failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

See the attached table for specific causes of NDE limitation for each component.

V. Alternate Examination

None

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	X COMPLETE		
				<u> </u>	//	
B1.11	1-B13-AA	Lower head to shell #1 circ. weld	BA	50	50	Examination performed from shell side only due to support skirt and base ring obstruction on lower head.
B1.12	1-B13-BA	Shell #1 long. seam at 17°	BA	70	78	Obstructions presented by N1 and N2 recirculation nozzles.
B1.12	1-B13-BB	Shell #1 long. seam at 137°	BA	74	76	Obstructions presented by N2 recirculation nozzles.
B1.12	1-B13-BC	Shell #1 long. seam at 257°	BA	75	75	Obstructions presented by N2 recirculation nozzles.
B1.11	1-B13-AB	Shell #1 to shell #2 circ. weld	BA	85	99	Obstructions presented by N1 and N2 recirculation nozzles.
B1.12	1-B13-BE	Shell #2 long. seam at 160°	BA	92	90	Obstructions presented by N12 instrumentation nozzle.
B1.11	1-B13-AC	Shell #2 to shell #3 circ. weld	BA	91	100	Obstructions presented by the four N12 instrumentation nozzles on shell #2.
B1.12	1-B13-BG	Shell #3 long. seam at 79°	BA	70	75	Obstructions presented by N4 feedwater and N6 SHR/LPCI nozzles.
B1.12	1-B13-PJ	Shell #3 long. seam at 199°	BA	69	68	Obstructions presented by N13 instrumentation and N4 feedwater nozzles.
B1.12	1-B13-BK	Shell #3 long. seam at 319°	BA	88	100	Perpendicular examination obstructed N4 feedwater nozzle. Complete parallel scan performed.

| Perpendicular scan  
// Parallel scan

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				⊥	//	
B1.11	1-B13-AD	Shell #3 to shell #4 circ. weld	BA	99	97	Parallel scan could not be performed for approximately 30" along taper between shell #3 and shell #4.
B1.12	1-B13-BN	Shell #4 long. seam at 48°	BA	64	69	Obstruction presented by N3 main steam nozzle and mechanical limits of scanner.
B1.12	1-B13-BP	Shell #4 long. seam at 168°	BA	85	88	Perpendicular examination obstructed by N16 vibration instrumentation nozzle, N14 instrumentation nozzle and mechanical limits of scanner. Parallel examination obstructed by N14 and mechanical limits of scanner.
B1.12	1-B13-BR	Shell #4 long. seam at 288°	BA	89	86	Obstructions presented by N3 main steam nozzle and mechanical limits of scanner.
B3.90	1-B13-N1A-KA	N1 nozzle to shell weld weld	BD	89	46	*Scan path obstructed by nozzle geometry and mechanical limits of scanner.
B3.100	1-B13-N1A-IR	N1 nozzle inner radius area	BD	92	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B3.90	1-B13-N1B-KA	N1 nozzle to shell weld	BD	83	10	*Scan path obstructed by nozzle geometry and mechanical limits of scanner.
B3.100	1-B13-N1B-IR	N1 nozzle inner radius area	BD	92	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B3.90	1-B13-N2A-KA	N2 nozzle to shell weld	BD	65	36	*Scan path obstructed by nozzle geometry biowall doors and mechanical limits of scanner.

⊥ Perpendicular scan

// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				<u>⊥</u>	//	
B3.100	1-B13-N2A-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2A-KB	N2 nozzle to safe end weld	BF	55	75	Scan path obstructed by nozzle geometry and permanent vessel track at 20° Az.
B3.90	1-B13-N2B-KA	N2 nozzle to shell weld	BD	86	49	*Scan path obstructed by nozzle geometry and mechanical limits of scanner.
B3.100	1-B13-N2B-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2B-KB	N2 nozzle to safe end weld	BF	74	87	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N2C-KA	N2 nozzle to shell weld	BD	86	74	*Scan path obstructed by nozzle geometry, N9 jet pump instrumentation nozzle and mechanical limits of scanner.
B3.100	1-B13-N2C-IR	N2 nozzle inner radius area	BD	86	N/A	Shell side examination limited by taper between shell #1 and shell #2 and N9 jet pump instrumentation nozzle.
B5.10	1-B13-N2C-KB	N2 nozzle to safe end weld	BF	22	75	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N2D-KA	N2 nozzle to shell weld	BD	74	46	*Scan path obstructed by nozzle geometry, N9 jet pump instrumentation nozzle, permanent vessel tracks at 110° and 125° Az., and mechanical limits of scanner.

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⊥ Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				$\perp$	//	
B3.100	1-B13-N2D-IR	N2 nozzle inner radius area	BD	86	N/A	Shell side examination limited by taper between shell #1 and shell #2 and N9 jet pump instrumentation nozzle.
B5.10	1-B13-N2D-KB	N2 nozzle to safe end weld	BF	47	100	Scan path obstructed by nozzle geometry and OD weld contour
B3.90	1-B13-N2E-KA	N2 nozzle to shell weld	BD	73	67	*Scan path obstructed by nozzle geometry, permanent vessel track of 135° Az., and mechanical limits of scanner.
B3.100	1-B13-N2E-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2E-KB	N2 nozzle to safe end weld	BF	75	88	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N2F-KA	N2 nozzle to shell weld	BD	87	37	*Scan path obstructed by nozzle geometry, permanent vessel track at 200° Az., and mechanical limits of scanner.
B3.100	1-B13-N2F-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2F-KB	N2 nozzle to safe end weld	BF	12	85	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N2G-KA	N2 nozzle to shell weld	BD	83	37	*Scan path obstructed by nozzle geometry and mechanical limits of scanner.

$\perp$  Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				⊥	//	
B3.100	1-B13-N2G-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2G-KB	N2 nozzle to safe end weld	BF	24	97	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N2H-KA	N2 nozzle to shell weld	BD	89	37	*Scan path obstructed by nozzle geometry, N9 jet pump instrumentation nozzle and mechanical limits of scanner.
B3.100	1-B13-N2H-IR	N2 nozzle inner radius area	BD	86	N/A	Shell side examination limited by taper between shell #1 and shell #2 and jet pump instrumentation nozzle.
B5.10	1-B13-N2H-KB	N2 nozzle to safe end weld	BF	57	97	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N2J-KA	N2 nozzle to shell weld	BD	88	53	*Scan path obstructed by nozzle geometry, N9 jet pump instrumentation nozzle and mechanical limits of scanner.
B3.100	1-B13-N2J-IR	N2 nozzle inner radius area	BD	86	N/A	Shell side examination limited by taper between shell #1 and shell #2 and jet pump instrumentation nozzle.
B5.10	1-B13-N2J-KB	N2 nozzle to safe end weld.	BF	83	88	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N2K-KA	N2 nozzle to shell weld	BD	86	46	*Scan path obstructed by nozzle geometry, permanent vessel track at 340° Az., and mechanical limits of scanner.

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⊥ Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				<u> </u>	//	
B3.100	1-B133-N2K-IR	N2 nozzle inner radius area	BD	88	N/A	Shell side examination limited by taper between shell #1 and shell #2.
B5.10	1-B13-N2K-KB	N2 nozzle to safe end weld	BF	74	88	Scan path obstructed by nozzle geometry.
B3.90	1-B13-K4A-KA	N4 nozzle to shell weld	BD	97	32	*Scan path obstructed by nozzle geometry.
B3.100	1-B13-N4A-IR	N4 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N13 instrumentation nozzle at 15° Az.
B5.10	1-B13-N4A-KB	N4 nozzle to safe end weld	BF	87	100	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N4B-YA	N4 nozzle to shell weld	BD	99	59	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N4B-KB	N4 nozzle to safe end weld	BF	77	98	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N4C-KA	N4 nozzle to shell weld	BD	93	32	*Scan path obstructed by nozzle geometry.
B3.100	1-B13-N4C-IR	N4 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N13 instrumentation nozzle at 165° Az.
B5.10	1-B13-N4C-KB	N4 nozzle to safe end weld	BF	83	98	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N4D-KA	N4 nozzle to shell weld	BD	83	32	*Scan path obstructed by nozzle geometry and permanent vessel track at 200° Az.

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| Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				<u> </u>	//	
B5.10	1-B13-N4C-KB	N4 nozzle to safe end weld	BF	83	98	Scan path obstructed by nozzle geometry.
B3.100	1-B13-N4D-IR	N4 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N13 instrumentation nozzle at 195° Az.
B3.90	1-B13-N4E-KA	N4 nozzle to shell weld	BD	98	59	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N4E-KB	N4 nozzle to safe end weld	BF	80	98	Scan path obstructed by nozzle geometry.
B3.90	1-B13-N4F-KA	N4 nozzle to shell weld	BD	97	59	*Scan path obstructed by nozzle geometry.
B3.100	1-B13-N4F-IR	N4 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N13 instrumentation nozzle at 345° Az.
B5.10	1-B13-N4F-KB	N4 nozzle to safe end weld	BF	79	73	Scan path obstructed by nozzle geometry and OD weld contour.
B3.90	1-B13-N5A-KA	N5 nozzle to shell weld	BD	98	61	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N5A-KB	N5 nozzle to safe end weld	BF	86	100	Scan path obstructed by safe end transition taper.
B3.90	1-B13-N5B-KA	N5 nozzle to shell weld	BD	98	29	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N5B-KB	N5 nozzle to safe end weld	BF	86	100	Scan path obstructed by safe and transition taper.
B3.90	1-B13-N6A-KA	N6 nozzle to shell weld	BD	95	56	*Scan path obstructed by nozzle geometry.

| Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				⊥	//	
B5.10	1-B13-N6A-KB	N6 nozzle to safe end weld	BF	91	100	Scan path obstructed by nozzle geometry and safe end transition taper.
B3.90	1-B13-N6B-KA	N6 nozzle to shell weld	FD	93	70	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N6B-KB	N6 nozzle to safe end weld	BF	93	74	Scan path obstructed by nozzle geometry, safe end transition taper and OD weld contour.
B3.90	1-B13-N6C-KA	N6 nozzle to shell weld	BD	95	56	*Scan path obstructed by nozzle geometry.
B5.10	1-B13-N6C-KB	N6 nozzle to safe end weld	BF	95	82	Scan path obstructed by nozzle geometry, safe end transition and OD weld contour.
B1.40	1-B13-AG	Top head to top head flange weld	EA	50	50	Scan path restricted on top head side only.
B1.21	1-B13-AH	Top head dollar plate to side plate weld	BA	96	100	Scan path obstructed by four lifting lugs at 0°, 90°, 180°, and 270° Az.
B3.90	1-B13-N7-KA	N7 head spare nozzle to top head weld	BD	89	100	*Scan path obstructed by N8 head spray nozzle.
B3.100	1-B13-N7-IR	N7 head spare nozzle inner radius area	BD	94	N/A	Shell side examination limited by N8 head spray nozzle.
B3.90	1-B13-N8-KA	N8 head spray nozzle	BD	89	100	*Scan path obstructed by N7 head spare nozzle.
B3.100	1-B13-N8-IR	N8 head spray nozzle inner radius area	BD	94	N/A	Shell side examination limited by N7 head spare nozzle.

⊥ Perpendicular scan

// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

SYSTEM: Reactor Pressure Vessel

ITEM NO.	WELD I.D.	DESCRIPTION	CODE CATEGORY	% COMPLETE		
				⊥	//	
B3.90	1-B13-N9A-KA	N9 nozzle to shell weld	BD	81	100	*Scan path obstructed by N2 recirculation inlet nozzles at 90° and 120° Az.
B3.10G	1-B13-N9A-IR	N9 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N2 recirculation inlet nozzles at 90° and 120° Az.
B3.90	1-B13-N9B-KA	N9 nozzle to shell weld	BD	81	100	*Scan path obstructed by N2 recirculation inlet nozzles at 270° and 300° Az.
B3.10G	1-B13-N9B-IR	N9 nozzle inner radius area	BD	96	N/A	Shell side examination limited by N2 recirculation inlet nozzles at 270° and 300° Az.
B3.90	1-B13-N15-KA	N15 nozzle to Bottom Head	BD	0	0	Obstruction presented by CRD tube bundle
B3.10G	1-B13-N15-IR	N15 nozzle inner radius	BD	0	0	Obstruction presented by CRD tube bundle
B1.22	1-B13-DG	Bottom Head Center Plate to Side Plates, 270° Side	BA	29	29	Obstruction presented by CRD tube bundle and skirt knuckle.
B1.22	1-B13-DH	Bottom Head Center Plate to Side Plates, 90° Side	BA	29	29	Obstruction presented by CRD tube bundle and skirt knuckle.

The above listed items can be found on ISI ISO's SS-305-006-102 through 111.

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Rev. 1

⊥ Perpendicular scan  
// Parallel scan

\* Perpendicular weld examination limited to one direction toward nozzle centerline.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-002

I. Identification of Components

Class 1, Category B-G-1, Item No. B6.180, reactor recirculation pump bolts and studs, in place (See attached table for ID numbers).

II. ASME B.PV Section XI Requirements

Table IWB-2500-1 requires a 100% volumetric examination.

III. Relief Requested

Relief from the required 100% volumetric examination of the reactor recirculation pump studs (attached table) is requested at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

Volumetric examination of the reactor recirculation pump studs was limited by the elongation measurement hole. This hole (approximately 0.5 in. dia.) extends through 80% of bolt length and interferes with UT examination of the bolt volume in the proximity of the hole. The volume affected is approximately 22% of the total required volume.

The structural integrity of the recirculation pump bolting was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. Materials were purchased and traced in accordance with the appropriate Code and NEC requirements and guidelines. There were no cracks observed from preservice inspection. The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988 without leak indication attributable to the subject components.

The major area of interest, the thread root area, received 100% volumetric examination. Material in the examined volume is identical to the non-examined portion of the studs. Since the construction, operating conditions and environmental conditions of the non-examined portions are identical to the examined volume, it is reasonable to apply satisfactory results obtained from the inservice inspections to the non-examined volume.

Design, procurement, and operational provisions against nil ductile failure of the subject components remains as described in the Perry USAR Section 5.2.3.3.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-002

In summary, because of acceptable initial bolt condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine about 78% of bolt volume on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-002

<u>COMPONENT I.D.</u>	<u>DESCRIPTION</u>
1-B33-C001B-1B	REACTOR RECIRC. PUMP B STUD 1
1-B33-C001B-2B	REACTOR RECIRC. PUMP B STUD 2
1-B33-C001B-3B	REACTOR RECIRC. PUMP B STUD 3
1-B33-C001B-4B	REACTOR RECIRC. PUMP B STUD 4
1-B33-C001B-5B	REACTOR RECIRC. PUMP B STUD 5
1-B33-C001B-6B	REACTOR RECIRC. PUMP B STUD 6
1-B33-C001B-7B	REACTOR RECIRC. PUMP B STUD 7
1-B33-C001B-8B	REACTOR RECIRC. PUMP B STUD 8
1-B33-C001B-9B	REACTOR RECIRC. PUMP B STUD 9
1-B33-C001B-10B	REACTOR RECIRC. PUMP B STUD 10
1-B33-C001B-11B	REACTOR RECIRC. PUMP B STUD 11
1-B33-C001B-12B	REACTOR RECIRC. PUMP B STUD 12
1-B33-C001B-13B	REACTOR RECIRC. PUMP B STUD 13
1-B33-C001B-14B	REACTOR RECIRC. PUMP B STUD 14
1-B33-C001B-15B	REACTOR RECIRC. PUMP B STUD 15
1-B33-C001B-16B	REACTOR RECIRC. PUMP B STUD 16

The above listed items can be found on ISI ISO SS-305-602-105

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-003

I. Identification of Components

Class 1, Category B-G-1, Item No. B6.40, threads in reactor vessel flange (flange ligaments - see attached table for ID numbers).

II. ASME B.PV Section XI Requirements

Table IWB-2500-1 requires a 100% volumetric examination of the stud hole ligament area.

III. Relief Requested

Relief from the required 100% volumetric examination is requested at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP. Because of interference with the lip of the flange seal surface, examination is limited to 93% of required volume.

IV. Basis for Relief

The structural integrity of the reactor vessel flange was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The Perry Unit 1 reactor vessel had no reportable indications from preservice inspection results.

The pressure boundary passed the required hydrostatic test; following startup testing the plant has operated between 60% and 70% capacity factor for a total of about 250 equivalent full power days between November 1987 and November 1988, without detectable pressure boundary leakage.

Examination meeting the requirements of the ASME Code Section XI will continue to be performed on 93% of the subject volume, which is subject to the same operating and environmental conditions as the unexamined volume. It is, therefore, reasonable to apply the results from examined volume to the non-examined volume.

In addition, catastrophic reactor vessel failure is precluded by avoiding nil ductile temperatures at significant stress levels according to the design, surveillance and operating provisions described in the Perry USAR Sections 5.3.1 and 5.3.2 and the Technical Specifications 3/4.4.6.

In summary, because of initial vessel condition free of reportable indications, successful code hydrotest and operating experience without leakage indications, the capability to examine most of the subject volume on a continuing basis, the capability to detect pressure boundary leakage, and protections against brittle reactor vessel failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

Sheet 2 of 5

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-003

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
Relief Request #IR-003

<u>MARK NO.</u>	<u>ISI ISO</u> <u>SS-305-</u>	<u>COMPONENT DESCRIPTION</u>	<u>OBSTRUCTION</u>	<u>% COMP</u>
1B13-A1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-A9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-B9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%
1B13-C9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93%

Perry Nuclear Power Plant Unit 1  
Relief Request #IR-003 (Cont.)

<u>MARK NO.</u>	<u>ISI ISO</u> <u>SS-305-</u>	<u>COMPONENT DESCRIPTION</u>	<u>OBSTRUCTION</u>	<u>Z COMP</u>
1B13-D1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-D9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-E9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-F9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X

Perry Nuclear Power Plant Unit 1  
Relief Request #IR-003 (Cont.)

<u>MARK NO.</u>	<u>ISI ISO</u> <u>SS-305-</u>	<u>COMPONENT DESCRIPTION</u>	<u>OBSTRUCTION</u>	<u>% COMP</u>
1B13-G1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-G9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H1-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H2-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H3-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H4-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H5-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H6-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H7-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H8-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X
1B13-H9-T	006-112	RPV Shell, Threads in Flange Area	Flange Seal Lip	93X

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-004, Rev. 1

I. Identification of Components

Class 1, Category B-J (Item numbers in attached table), piping welds 4 inches NPS and greater.

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires 100% surface and volumetric examination.

III. Relief Requested

Relief is requested from the required volumetric examination because of partial inaccessibility of the weld and required volume, at the first and subsequent examinations as scheduled Section 7.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspection.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990 without leakage indication attributable to the subject welds.

In addition to partial inspection of the subject welds, complete examinations meeting the requirements of the ASME Code Section XI are performed on welds of similar configurations which utilize the same weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-004, Rev. 1

In summary, because of acceptable initial condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine most of the subject weld volumes on a continuing basis, the capability to detect pressure boundary leakage, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

NOTE: Revision 0 of this Relief Request was granted by NRR in a Safety Evaluation dated April 25, 1990.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-004, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST. % COMPLETE</u>
B9.11	1B21-0025	MS/605-103	Contour Nozzle to Flange	Joint Geometry	Perpendicular 50%, Parallel 100%
B9.11	1B21-0122U	MS/605-101	26" Elbow Seam, Upstream	Adjacent Branch Connection	Perpendicular & Parallel 90%
B9.11	1B21-0133	MS/605-101	Contour Nozzle to Flange	Joint Geometry	Perpendicular 50%, Parallel 100%
B9.11	1E12-0406	RHR/642-125	12" Pipe to Valve	Structural Steel Interference	Perpendicular 50%, Parallel 100%
B9.11	1E12-0880	RHR/642-143	12" Process Pipe to Elbow	Containment Penetration & Weld Geometry	Perpendicular 80%, Parallel 100%
B9.11	1E22-0012	HPCS/701-111	12" Elbow to Penetration	Joint Geometry	Perpendicular 95%, Parallel 100%
B9.12	1B33-0027U	RR/602-101	16" Pipe Seam	Lug Interference	Perpendicular 95%, Parallel 92%
B9.11	1E21-0007	LPCS/705-111	12" Pipe to Elbow	Non-Removable Support 1E21-B0003	Perpendicular & Parallel 80%

MS = Main Steam

RHR = Residual Heat Removal

HPCS = High Pressure Core Spray

RR = Reactor Recirculation

LPCS = Low Pressure Core Spray

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-005

I. Identification of Components

Class 1, Category B-J, Item B9.11, piping welds 4 inches NPS and greater (see attached table for I.D. numbers).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires 100% surface and volumetric examination.

III. Relief Requested

Relief is requested from the required volumetric examination, at the first and subsequent examinations as scheduled Section 2.6 of the ISEP.

IV. Basis for Relief

Ultrasonic examinations conducted on welds in the recirculation loops which were inlaid and overlaid with corrosion resistant cladding required specialized techniques. Typical techniques identified in Appendix III of Section XI proved to be ineffective.

To overcome the metallurgical properties impeding conventional shear wave ultrasonic transmission, refracted longitudinal wave examinations were employed. The acoustic properties of refracted longitudinal wave propagation limit the technique to 1/2 vee path. The Code required volume necessitates a full vee path through the weld and required volume.

Therefore, when access to a butt weld was limited to one side only due to component geometry (e.g., pipe to valve) the perpendicular examination is considered to be only 50% complete.

During construction, the subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. In addition, there were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988 without leakage indication attributable to the subject welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-005

In summary, because of acceptable initial condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine half of the subject weld volume on a continuing basis, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Ferry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-005

<u>WELD I.D.</u>	<u>ISI ISO SS-305-</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST. % COMPLETE</u>
1-B33-0027	602-101	16" Cap to Pipe	Geometry	Perpendicular 95%
1-B33-0038	602-101	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0043	602-101	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0049	602-101	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0054	602-101	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0056	602-101	16" x 12" Sweepolet to 12" Pipe	Geometry	Perpendicular 50%
1-B33-0059	602-101	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0074	602-104	22" Elbow to Pump C001B	Geometry	Perpendicular 50%
1-B33-0076	602-104	24" Pipe to Pump C001B	Geometry	Perpendicular 50%
1-B33-0081	602-104	24" Valve F060B to Pipe	Geometry	Perpendicular 50%
1-B33-0088	602-104	24" Pipe to 24 x 16" Cross	Geometry	Perpendicular 50%
1-B33-0097	602-103	16" x 12" Sweepolet to 12" Pipe	Geometry	Perpendicular 50%
1-B33-0100	602-103	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0105	602-103	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0111	602-103	12" Pipe to Nozzle	Geometry	Perpendicular 50%

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Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #II-005

<u>WELD I.D.</u>	<u>ISI ISO SS-305-</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST. % COMPLETE</u>
1-B33-0116	602-103	12" Pipe to Nozzle	Geometry	Perpendicular 50%
1-B33-0118	602-103	16" x 12" Sweepolet to 12" Pipe	Geometry	Perpendicular 50%
1-B33-0121	602-103	12" Pipe to Nozzle	Geometry	Perpendicular 50%

1-48

Rev. 1

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-006

I. Identification of Components

Class 1, Category B-J, Item B9.12 (piping welds 4 inches NPS and greater), Weld 1-B33-0027U1 in reactor recirculation system (ISI ISO SS-305-602-101).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires 100% surface and volumetric examination.

III. Relief Requested

Relief is requested from the required volumetric examination, at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP, to allow examination of only 90% of the required surface due to a pipe lug which prevents contact with 10% of the weld surface.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988, without leakage indication attributable to the subject welds.

In addition to partial examination of the subject welds, complete examinations meeting the requirements of the ASME Code Section XI are performed on welds of similar configurations which utilize the same weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-006

In summary, because of acceptable initial conditions, successful code hydrotest and operating experience without related leakage indications, the capability to examine most of the subject weld surface on a continuing basis, the capability to detect pressure boundary leakage, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-007

I. Identification of Components

Class 1, Category B-K-1, Item No. B10.10 integrally welded support attachments for piping (See attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires a 100% surface examination (volumetric is not applicable.)

III. Relief Requested

Relief is requested from the required 100% surface examination of the penetration to process pipe attachment welds due to inaccessibility of the weld face within the ID of the penetration. 50% of the required surface is accessible and will be examined at the first and subsequent inspections scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

Examinations meeting the requirements of the ASME Code Section XI were performed on the accessible face of the attachment weld with acceptable results during preservice inspection.

Penetration attachment welds within the high energy break exclusion region of piping systems were ultrasonically examined from the OD surface of the penetration. Although not performed specifically to supplement the limited surface examinations, these examinations do provide additional assurance of structural integrity.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-007

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

In summary, because of acceptable initial condition, successful code hydrotest and operating experience, the capability to examine half of the subject weld surface on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-007

<u>COMPONENT I.D.</u>	<u>SYSTEM/ISI ISO SS-305-</u>
1-E12-P411-WA	RHR/642-135
1-E12-P421-WA	RHR/642-101
1-E12-PRB2035-WA	RHR/642-143
1-E12-PRB2035-WA	RHR/642-139
1-E12-PRB2044-WA	RHR/642-126
1-E21-P112-WA	LPCS/705-109
1-E21-PRB3046-WA	LPCS/705-110
1-E22-P410-WA	HPCS/701-109
1-E22-PRB3052-WA	HPCS/701-110
1-E51-P123-WA	RCIC/631-106
1-C41-PRB4031-WA	SLC/691-102
**1-E51-P422-WA	RCIC/632-102
**1-N27-P121-WA	FW/082-101
**1-N27-P414-WA	FW/082-101
**1-G33-P131-WA	RWCU/671-104
**1-N22-P423-WA	MS/121-103
**1-B21-P122-WA	MS/605-109
**1-B21-P124-WA	MS/605-107
**1-B21-P415-WA	MS/605-110
**1-B21-P416-WA	MS/605-103

\*RHR = Residual Heat Removal      FW = Feedwater  
 LPCS = Low Pressure Core Spray      RWCU = Reactor Core Isolation Cooling  
 HPCS = High Pressure Core Spray      MS = Main Steam  
 RCIC = Reactor Core Isolation Cooling      SLC = Standby Liquid Control

\*\*Received augmented ultrasonic examination as part of high energy break exclusion region.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-008

I. Identification of Components

Class 1, Category B-M-1, Item number B12.40, valve body welds (see attached table for weld ID numbers).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires 100% volumetric examination.

III. Relief Requested

Relief is requested from the required 100% volumetric examinations because part geometry and code plate obstructions limit examination of required volume, at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the valve pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988, without leakage indication attributable to the subject welds.

Since the construction, operating conditions and environmental conditions of the non-examined portions of the welds are identical to the examined portions, it is reasonable to apply satisfactory results to the non-examined portions.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

In summary, because of acceptable initial condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine about 90% of the weld volume on a continuing basis, the capability to detect pressure boundary leakage (USAR 5.2.5), and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

Sheet 2 of 3

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-008

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-008

<u>WELD NG.</u>	<u>ISI ISO SYSTEM/SS-305-</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST. % COMPLETE</u>
1-E12-F019 SEAM	RHR/642-122	6" Forged Check Vlv. Body Weld	Geometry/Code Plate	Perpendicular 92%
1-E12-F042A SEAM	RHR/642-126	12" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 90%
1-E21-F005 SEAM	LPCS/705-108	12" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 90%
1-E22-F036 SEAM	HPCS/701-111	12" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 90%
1-E51-F064 SEAM	RCIC/632-102	10" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 90%
1-E51-F013 SEAM	RCIC/631-105	6" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 94%
1-G33-F004 SEAM	RWCU/671-104	6" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 89%
1-G33-F100 SEAM	RWCU/671-107	4" Forged Gate Vlv. Body Weld	Geometry/Code Plate	Perpendicular 92%

RHR = Residual Heat Removal  
LPCS = Low Pressure Core Spray  
HPCS = High Pressure Core Spray  
RCIC = Reactor Core Isolation Cooling  
RWCU = Reactor Water Cleanup

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-009

I. Identification of Components

Class 1, Category B-0, Item B14.10, flange welds in control rod drive housing (See attached table for I.D. numbers and drawing ISI-813-016).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires 100% surface or volumetric examination.

III. Relief Requested

Relief is requested from the required 100% surface examination because of partial inaccessibility due to control line interferences, at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP. Approximately 85% of subject weld surface will be subjected to a dye penetrant examination.

IV. Basis for Relief

The structural integrity of the subject welds was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. The subject welds had no reportable indications during preservice inspection.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988 without leakage indication attributable to the subject welds.

Portions of welds examined are subject to the same operating and environmental conditions as the unexamined portions. Approximately 85% of the weld surface will continue to be examined. It is, therefore, reasonable to apply the results from examined weld portions to the unexamined portions.

In summary, because of acceptable initial weld condition, successful code hydrotest and operating experience without leakage indications, the capability to examine most of the weld surface on a continuing basis, and the capability to detect pressure boundary leakage, it is concluded that there is no significant impact on the overall level of plant quality and safety.

Sheet 2 of 3

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-009

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-009

WELD I.D.

1-B13-02/23-FW  
1-B13-02/27-FW  
1-B13-02/31-FW  
1-B13-02/35-FW  
1-B13-02/39-FW  
1-B13-06/15-FW  
1-B13-06/47-FW  
1-B13-10/11-FW  
1-B13-10/51-FW  
1-B13-14/07-FW  
1-B13-14/55-FW  
1-B13-22/03-FW  
1-B13-22/59-FW  
1-B13-26/03-FW  
1-B13-26/59-FW  
1-B13-30/03-FW

WELD I.D.

1-B13-30/59-FW  
1-B13-34/03-FW  
1-B13-34/59-FW  
1-B13-38/03-FW  
1-B13-38/59-FW  
1-B13-46/07-FW  
1-B13-46/55-FW  
1-B13-50/11-FW  
1-B13-50/51-FW  
1-B13-54/15-FW  
1-B13-54/47-FW  
1-B13-58/23-FW  
1-B13-58/27-FW  
1-B13-58/31-FW  
1-B13-58/35-FW  
1-B13-58/39-FW

The above listed items can be found on ISI ISO drawing SS-305-006-110.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #RR-016

THIS RELIEF REQUEST HAS BEEN DELETED

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-017

THIS RELIEF REQUEST HAS BEEN DELETED

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-018, Rev. 1

I. Identification of Components

Class 1, Category B-K-1, Item No. B10.10 integrally welded support attachments for piping (See attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires a 100% surface examination (volumetric is not applicable.)

III. Relief Requested

Relief is requested from the required 100% surface examination of the support lug to process pipe attachment welds due to inaccessibility of the weld face at the pipe clamp or box guide to support lug interface. At least 65% of the required surface is accessible and was examined during the first period, or will be examined during subsequent periods, as scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990.

Complete examinations meeting the requirements of the ASME Code Section XI are performed on welds of similar configurations which utilized the same weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Design, procurement and operational provision against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-018, Rev. 1

In summary, because of acceptable initial condition, successful code hydrotest and operating experience, the capability to examine 90% of the subject weld surface on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Uni. 1  
RELIEF REQUEST #IR-018, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPL</u>
B10.10	1E12-H0100-WA	RHR/SS-305-642-117	Welded lugs for pipe clamp	Pipe Clamp	90%
B10.10	1B33-H305A-WA	RR/SS-305-602-102	welded lugs for pipe clamp	Pipe Clamp	75%
B10.10	1B33-H306A-WA	RR/SS-305-602-102	Welded lugs for pipe clamp	Pipe Clamp	75%
B10.10	1B33-H305A-WA	RR/SS-305-602-104	Welded lugs for pipe clamp	Pipe Clamp	75%
B10.10	1B33-H306B-WA	RR/SS-305-602-104	Welded lugs for pipe clamp	Pipe Clamp	75%
B10.10	1N27-H0029-WA	FW/SS-305-082-102	Welded lugs for box guide	Box Guide	65%
B10.10	1N27-H0030-WA	FW/SS-305-082-105	Welded lugs for box guide	Box Guide	65%

RHR - Residual Heat Removal  
RR - Reactor Recirculation  
FW - Feedwater

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-024

I. Identification of Components

Class 1, Category B-F, Item B5-10, Pressure Retaining Dissimilar Metal Welds (see attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWB-2500-1 requires a 100% surface and volumetric examination.

III. Relief Requested

Relief is requested from the required 100% surface examination, at the first and subsequent examinations as scheduled in Section 2.6 of the ISEP.

IV. Basis for Relief

Safe-end to safe-end extension welds of the Core Spray and Residual Heat Removal nozzles, which are inconel to carbon steel bimetallic welds, can not be effectively ultrasonically examined using conventional shear wave techniques.

To overcome the metallurgical properties impeding the conventional shear wave ultrasonic transmission, refracted longitudinal wave examinations are employed. The acoustic properties of refracted longitudinal wave propagation limit the technique to 1/2 vee path. The Code required volume necessitates either 1/2 vee path scanning from both sides of the weld or full vee path scanning from one side through the weld and required volume. Therefore, when joint geometry precludes adequate scan paths on both sides of a weld for 1/2 vee scanning, the perpendicular examination of the weld and required volume will be limited. For the subject safe-end to safe-end extension welds, a safe-end taper limits scanning from one side of the weld to approximately 60% resulting in an overall perpendicular examination completion percentage of approximately 80% (see Fig. IR-024.1 below).

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during ASME Section XI preservice inspections.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-024

Although the examinations are limited, the most critical areas of the weld and required volume are adequately covered. The root of the weld receives full two dimensional coverage and both the heat affected zones receive coverage which is essentially perpendicular to the end preparation.

Since the construction, operating conditions and environmental conditions of the non-examined portions of the welds are identical to the examined portions, it is reasonably satisfactory results from the examined to the non-examined portions.

Design, procurement and operational provisions against brittle failure of the subject welds remain as described in the Perry USAI.

In summary, because of acceptable initial condition, successful test operating experience, the capability to examine most of the subject weld volumes on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

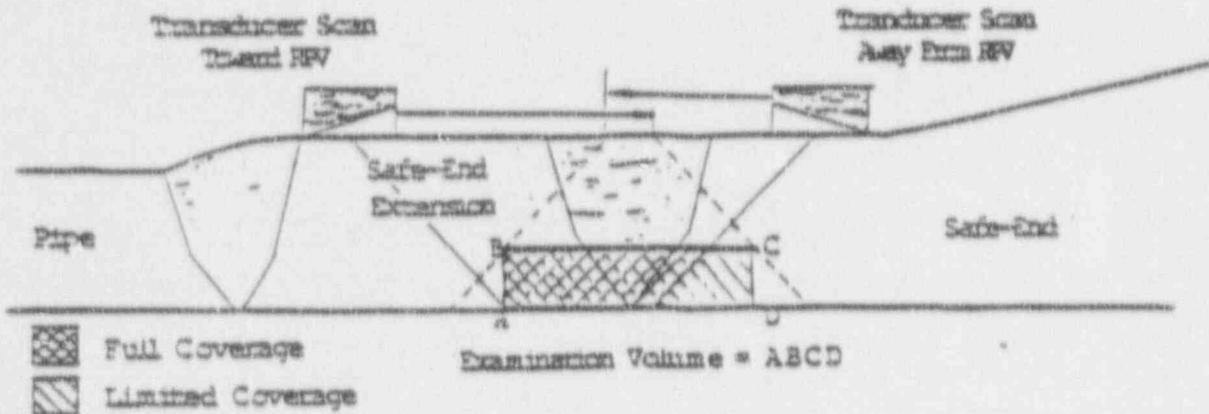


FIGURE IR-024-1

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-024

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
B5.10	1B13-N5A-KC	RX/SS-305-006-109	LPCS Nozzle safe-end to safe-end extension	Joint Geometry/ Metallurgy	80% Perpendicular 100% Parallel
B5.10	1B13-N5B-KC	RX/SG-305-006-109	HPCS Nozzle safe-end to safe-end extension	Joint Geometry/ Metallurgy	80% Perpendicular 100% Parallel
B5.10	1B13-N6A-KC	RX/SS-305-006-109	HPCS Nozzle safe-end to safe-end extension	Joint Geometry/ Metallurgy	80% Perpendicular 100% Parallel
B5.10	1B13-N6B-KC	RX/SS-305-006-109	HPCS Nozzle safe-end to safe-end extension	Joint Geometry/ Metallurgy	80% Perpendicular 100% Parallel
B5.10	1B13-N6C-KC	RX/SS-305-006-109	HPCS Nozzle safe-end to safe-end extension	Joint Geometry/ Metallurgy	80% Perpendicular 100% Parallel

RX - Reactor Vessel

LPCS - Low Pressure Core Spray

HPCS - High Pressure Core Spray

RHR - Residual Heat Removal

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IK-025

I. Identification of Components

Class 1, Category B-K-1, Item No. B10.10 integrally welded support attachments for piping (See attached table for ID numbers).

II. ASME B&PV Section III Requirements

Table IWB-2500-1 requires a 100% surface examination (volumetric is not applicable).

III. Relief Requested

Relief is requested from the required 100% surface examination of the support lug to process pipe attachment welds because access limitations from the surrounding guide structure prohibit surface preparation and examination of the attachment welds without disassembly of the guide.

IV. Basis for Relief

The welded attachments identified in the attached table are pipe lugs within large and complicated guide supports for the 26" main steam piping. Disassembly (and the subsequent reassembly) of the guides to provide access for the required surface exams requires over 320 manhours for each guide in a general radiation area of approximately 10 mr/hr. Without disassembly, access is sufficient for VT-1 examination (utilizing mirrors and a fiberscope) of the welds. Utilization of the VT-1 exams in lieu of surface exams maintains an adequate level of quality and safety without the hardships which would be incurred in disassembly.

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-025

In summary, because of acceptable initial condition, successful test operating experience, the capability to examine most of the subject weld volumes on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

VT-1 examinations will be performed, to the extent and frequency required by Table IWB-2500-1, in lieu of surface examinations.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-025

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
B10.10	1B21-G101A-WA	MS/SS-305-605-101	Welded lugs for pipe guide	Guide Assembly	0%*
B10.10	1B21-G101B-WA	MS/SS-305-605-102	Welded lugs for pipe guide	Guide Assembly	0%*
B10.10	1B21-G101C-WA	MS/SS-305-605-103	Welded lugs for pipe guide	Guide Assembly	0%*
B10.10	1B21-G101D-WA	MS/SS-305-605-104	Welded lugs for pipe guide	Guide Assembly	0%*

\* 0% complete for required surface examination, but essentially 100% complete for alternative VT-1 examination.

MS - Main Steam

## 2.6 Inservice Examination Table

This section contains the listing of all Class 1 components subject to the examination requirements of ASME Section XI, Article IWB. The actual components scheduled for examinations are presented to management for approval 60 days prior to commencing a scheduled refueling outage.

The information presented in the tables is defined below:

- o EXAMINATION CATEGORY - The basis for organizing components subject to examination.
- o ITEM NO. - A division within an examination category which separates the specific examination requirements.
- o MARK NO. - A unique identification number assigned to each weld or component.
- o COMPONENT DESCRIPTION - A brief description used to identify the weld or component.
- o EXAM METHOD - This abbreviation identifies the unique non-destructive examination method(s) required for the weld or component examination. The abbreviations used in this listing are as follows:
  - MT - Magnetic Particle Testing
  - PT - Dye Penetrant Testing
  - UT - Ultrasonic Testing
  - RT - Radiography Testing
  - VT-1 - Visual Examination for Surface Conditions
  - VT-2 - Visual Examination for Leakage
  - VT-3 - Visual Examination for General Conditions
- o PERIOD SCHED. - This column identifies the inspection period in which the weld or component is scheduled to be examined. The period scheduled can be either 1, 2, 3, or any combination of these numbers. For those welds or components not scheduled for examination, the letters "NS" will be inserted in place of an inspection period. For those components only examined when a particular situational requirement is met (ex. when removed), the letters "SR" will be inserted in place of an inspection period. An asterisk(s) in the schedule column denotes a scheduling peculiarity which will be explained at the end of the applicable category.

Inservice Examination Interval Listing

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-A					
B1.11	1B13-AA	Lower Head to No. 1 Shell Ring Circumferential Seam	UT	3	006-102
B1.11	1B13-AB	No. 1 Shell Ring to No. 2 Shell Ring Circumferential Seam	UT	3	006-102
B1.11	1B13-AC	No. 2 Shell Ring to No. 3 Shell Ring Circumferential Seam	UT	3	006-102
B1.11	1B13-AD	No. 3 Shell Ring to No. 4 Shell Ring Circumferential Seam	UT	3	006-102
B1.30	1B13-AE	No. 4 Shell Ring to Shell Flange Circumferential Seam	UT	1, 3	006-102
B1.40	1B13-AG	Top Head to Top Head Flange	UT, MT	1, 2, 3	006-103
B1.21	1B13-AH	Top Head Dollar Plate to Side Plates	UT	1	006-103
B1.12	1B13-BA	No. 1 Shell Ring Long. Seam @ 17 Az.	UT	3	006-102
B1.12	1B13-BB	No. 1 Shell Ring Long. Seam @ 137 Az.	UT	3	006-102
B1.12	1B13-EC	No. 1 Shell Ring Long. Seam @ 257 Az.	UT	3	006-102
B1.12	1B13-BD	No. 2 Shell Ring Long. Seam @ 40 Az.	UT	3	006-102
B1.12	1B13-BE	No. 2 Shell Ring Long. Seam @ 160 Az.	UT	3	006-102
B1.12	1B13-BF	No. 2 Shell Ring Long. Seam @ 280 Az.	UT	3	006-102
B1.12	1B13-BG	No. 3 Shell Ring Long. Seam @ 79 Az.	UT	3	006-102
B1.12	1B13-BJ	No. 3 Shell Ring Long. Seam @ 199 Az.	UT	3	006-102
B1.12	1B13-BK	No. 3 Shell Ring Long. Seam @ 319 Az.	UT	3	006-102
B1.12	1B13-BN	No. 4 Shell Ring Long. Seam @ 48 Az.	UT	3	006-102
B1.12	1B13-BP	No. 4 Shell Ring Long. Seam @ 168 Az.	UT	3	006-102
B1.12	1B13-BR	No. 4 Shell Ring Long. Seam @ 288 Az.	UT	3	006-102
B1.22	1B13-DG	Bottom Center Plate to Side Plate, 270 Az. Side	UT	3	006-104
B1.22	1B13-DH	Bottom Center Plate to Side Plate, 90 Az. Side	UT	3	006-104
B1.22	1B13-DJ	Top Head Meridional Weld @ 75 Az.	UT	1	006-103
B1.22	1B13-DK	Top Head Meridional Weld @ 135 Az.	UT	2	006-103
B1.22	1B13-DM	Top Head Meridional Weld @ 195 Az.	UT	3	006-103
B1.22	1B13-DN	Top Head Meridional Weld @ 255 Az.	UT	1	006-103
B1.22	1B13-DP	Top Head Meridional Weld @ 315 Az.	UT	2	006-103
B1.22	1B13-DR	Top Head Meridional Weld @ 15 Az.	UT	3	006-103
B1.50		RPV Repair Welds in Beltline Region		NS	

EXAMINATION CATEGORY: B-B  
Not Applicable at FNPP

EXAMINATION CATEGORY: B-D  
Inspection Program A  
Not Applicable at FNPP

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-D					
B3.90	1B13-N1A-KA	Recirc. Outlet Noz. N1A to Vessel	UT	3	006-107
B3.100	1B13-N1A-IR	Recirc. Outlet Noz. N1A Inner Radius	UT	3	006-107
B3.90	1B13-N1B-KA	Recirc. Outlet Noz. N1B to Vessel	UT	3	006-107
B3.100	1B13-N1B-IR	Recirc. Outlet Noz. N1B Inner Radius	UT	3	006-107
B3.90	1B13-N2A-KA	Recirc. Inlet Noz. N2A to Vessel	UT	3	006-107
B3.100	1B13-N2A-IR	Recirc. Inlet Noz. N2A Inner Radius	UT	3	005-107
B3.90	1B13-N2B-KA	Recirc. Inlet Noz. N2B to Vessel	UT	3	006-107
B3.100	1B13-N2B-IR	Recirc. Inlet Noz. N2B Inner Radius	UT	3	006-107
B3.90	1B13-N2C-KA	Recirc. Inlet Noz. N2C to Vessel	UT	1	006-107
B3.100	1B13-N2C-IR	Recirc. Inlet Noz. N2C Inner Radius	UT	1	006-107
B3.90	1B13-N2D-KA	Recirc. Inlet Noz. N2D to Vessel	UT	3	006-107
B3.100	1B13-N2D-IR	Recirc. Inlet Noz. N2D Inner Radius	UT	3	006-107
B3.90	1B13-N2E-KA	Recirc. Inlet Noz. N2E to Vessel	UT	3	006-107
B3.100	1B13-N2E-IR	Recirc. Inlet Noz. N2E Inner Radius	UT	3	006-107
B3.90	1B13-N2F-KA	Recirc. Inlet Noz. N2F to Vessel	UT	3	006-107
B3.100	1B13-N2F-IR	Recirc. Inlet Noz. N2F Inner Radius	UT	3	006-107
B3.90	1B13-N2G-KA	Recirc. Inlet Noz. N2G to Vessel	UT	3	006-107
B3.100	1B13-N2G-IR	Recirc. Inlet Noz. N2G Inner Radius	UT	3	006-107
B3.90	1B13-N2H-KA	Recirc. Inlet Noz. N2H to Vessel	UT	3	006-107
B3.100	1B13-N2H-IR	Recirc. Inlet Noz. N2H Inner Radius	UT	3	006-107
B3.90	1B13-N2J-KA	Recirc. Inlet Noz. N2J to Vessel	UT	1	006-107
B3.100	1B13-N2J-IR	Recirc. Inlet Noz. N2J Inner Radius	UT	1	006-107
B3.90	1B13-N2K-KA	Recirc. Inlet Noz. N2K to Vessel	UT	3	006-107
B3.100	1B13-N2K-IR	Recirc. Inlet Noz. N2K Inner Radius	UT	3	006-107
B3.90	1B13-N3A-KA	MS Noz. N3A to Vessel	UT	1	006-105
B3.100	1B13-N3A-IR	MS Noz. N3A Inner Radius	UT	1	006-105
B3.90	1B13-N3B-KA	MS Noz. N3B to Vessel	UT	3	006-105
B3.100	1B13-N3B-IR	MS Noz. N3B Inner Radius	UT	3	006-105
B3.90	1B13-N3C-KA	MS Noz. N3C to Vessel	UT	3	006-105
B3.100	1B13-N3C-IR	MS Noz. N3C Inner Radius	UT	3	006-105
B3.90	1B13-N3D-KA	MS Noz. N3D to Vessel	UT	3	006-105
B3.100	1B13-N3D-IR	MS Noz. N3D Inner Radius	UT	3	006-105
B3.90	1B13-N4A-KA	FW Noz. N4A to Vessel	UT	3	006-108
B3.100	1B13-N4A-IR	FW Noz. N4A Inner Radius	UT	3	006-108
B3.90	1B13-N4B-KA	FW Noz. N4B to Vessel	UT	3	006-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-D					
B3.100	1B13-N4B-IR	FW Noz. N4B Inner Radius	UT	3	006-108
B3.90	1B13-N4C-KA	FW Noz. N4C to Vessel	UT	1	006-108
B3.100	1B13-N4C-IR	FW Noz. N4C Inner Radius	UT	1	006-108
B3.90	1B13-N4D-KA	FW Noz. N4D to Vessel	UT	3	006-108
B3.100	1B13-N4D-IR	FW Noz. N4D Inner Radius	UT	3	006-108
B3.90	1B13-N4E-KA	FW Noz. N4E to Vessel	UT	3	006-108
B3.100	1B13-N4E-IR	FW Noz. N4E Inner Radius	UT	3	006-108
B3.90	1B13-N4F-KA	FW Noz. N4F to Vessel	UT	1	006-108
B3.100	1B13-N4F-IR	FW Noz. N4F Inner Radius	UT	1	006-108
B3.90	1B13-N5A-KA	CS Noz. N5A to Vessel	UT	3	006-109
B3.100	1B13-N5A-IR	CS Noz. N5A Inner Radius	UT	3	006-109
B3.90	1B13-N5B-KA	CS Noz. N5B to Vessel	UT	3	006-109
B3.100	1B13-N5B-IR	CS Noz. N5B Inner Radius	UT	3	006-109
B3.90	1B13-N6A-KA	RHR Noz. N6A to Vessel	UT	3	006-109
B3.100	1B13-N6A-IR	RHR Noz. N6A Inner Radius	UT	3	006-109
B3.90	1B13-N6B-KA	RHR Noz. N6B to Vessel	UT	3	006-109
B3.100	1B13-N6B-IR	RHR Noz. N6B Inner Radius	UT	3	006-109
B3.90	1B13-N6C-KA	RHR Noz. N6C to Vessel	UT	1	006-109
B3.100	1B13-N6C-IR	RHR Noz. N6C Inner Radius	UT	1	006-109
B3.90	1B13-N7-KA	Top Head to N7 Head Spare Noz.	UT	3	006-103
B3.100	1B13-N7-IR	N7 Head Spare Noz. Inner Radius	UT	3	006-103
B3.90	1B13-N8-KA	Top Head to N8 Head Spray Noz.	UT	1	006-103
B3.100	1B13-N8-IR	N8 Head Spray Noz. Inner Radius	UT	1	006-103
B3.90	1B13-N9A-KA	Jet Pump Noz. N9A to Vessel	UT	1	006-106
B3.100	1B13-N9A-IR	Jet Pump Noz. N9A Inner Radius	UT	1	006-106
B3.90	1B13-N9B-KA	Jet Pump Noz. N9B to Vessel	UT	3	006-106
B3.100	1B13-N9B-IR	Jet Pump Noz. N9B Inner Radius	UT	3	006-106
B3.90	1B13-N10-KA	CRD Return Noz. N10 to Vessel	UT	1	006-106
B3.100	1B13-N10-IR	CRD Return Noz. N10 Inner Radius	UT	1	006-106
B3.90	1B13-N15-KA	Bottom Head to N15 Drain Nozzle	UT	NS*	006-104
B3.90	1B13-N16-KA	Vibration Noz. N16 to Vessel	UT	1	006-105
B3.100	1B13-N16-IR	Vibration Noz. N16 Inner Radius	UT	1	006-105
B3.110		Not Applicable at PNPP			
B3.120		Not Applicable at PNPP			

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-D					
B3.130		Not Applicable at PNPP			
B3.140		Not Applicable at PNPP			
B3.150		Not Applicable at PNPP			
B3.160		Not Applicable at PNPP			

\* Not scheduled due to inaccessibility (see relief request IR-001).

EXAMINATION CATEGORY: B-E

B4.11	1B13-N11-KA	Core Differential Pressure Nozzle	VT-2	3	006-104
B4.13	1B13-N12A	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N12B	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N12C	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N12D	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N13A	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N13B	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N13C	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N13D	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N14A	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N14B	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N14C	Instrumentation Nozzles	VT-2	3	006-106
B4.13	1B13-N14D	Instrumentation Nozzles	VT-2	3	006-106
B4.11	1B13-N18-KA	Liquid Control Nozzle	VT-2	3	006-104
B4.12	1B13-CRD-NZ	177 Control Rod Drive Nozzles	VT-2	3	006-110
B4.13	1B13-ICP-NZ	53 Incore Instrumentation Nozzles	VT-2	3	006-111
B4.20		Not Applicable at PNPP			

EXAMINATION CATEGORY: B-F

B5.10	1B13-N1A-KB	Recirc. Outlet Noz. N1A to Safe-end	UT, PT	3	006-107
B5.10	1B13-N1B-KB	Recirc. Outlet Noz. N1B to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2A-KB	Recirc. Inlet Noz. N2A to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2B-KB	Recirc. Inlet Noz. N2B to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2C-KB	Recirc. Inlet Noz. N2C to Safe-end	UT, PT	1	006-107
B5.10	1B13-N2D-KB	Recirc. Inlet Noz. N2D to Safe-end	UT, PT	3	006-107

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-F					
B5.10	1B13-N2E-KB	Recirc. Inlet Noz. N2E to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2F-F*	Recirc. Inlet Noz. N2F to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2G-KB	Recirc. Inlet Noz. N2G to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2H-KB	Recirc. Inlet Noz. N2H to Safe-end	UT, PT	3	006-107
B5.10	1B13-N2J-KB	Recirc. Inlet Noz. N2J to Safe-end	UT, PT	1	006-107
B5.10	1B13-N2K-KB	Recirc. Inlet Noz. N2K to Safe-end	UT, PT	1	006-107
B5.10	1B13-N3A-KB	MS Noz. N3A to Safe-end	UT, PT	1	006-105
B5.10	1B13-N3B-KB	MS Noz. N3B to Safe-end	UT, PT	3	006-105
B5.10	1B13-N3C-KB	MS Noz. N3C to Safe-end	UT, PT	3	006-105
B5.10	1B13-N3D-KB	MS Noz. N3D to Safe-end	UT, PT	3	006-105
B5.10	1B13-N4A-KB	FW Noz. N4A to Safe-end	UT, PT	3	006-108
B5.10	1B13-N4B-KB	FW Noz. N4B to Safe-end	UT, PT	3	006-108
B5.10	1B13-N4C-KB	FW Noz. N4C to Safe-end	UT, PT	1	006-108
B5.10	1B13-N4D-KB	FW Noz. N4D to Safe-end	UT, PT	3	006-108
B5.10	1B13-N4E-KB	FW Noz. N4E to Safe-end	UT, PT	3	006-108
B5.10	1B13-N4F-KB	FW Noz. N4F to Safe-end	UT, PT	1	006-108
B5.10	1B13-N5A-KB	CS Noz. N5A to Safe-end	UT, PT	3	006-109
B5.10	1B13-N5A-KC	CS Noz. N5A Safe-end to Safe-End Ext	UT, PT	1	006-109
B5.10	1B13-N5B-KB	CS Noz. N5B to Safe-end	UT, PT	3	006-109
B5.10	1B13-N5B-KC	CS Noz. N5B Safe-end to Safe-End Ext	UT, PT	1	006-109
B5.10	1B13-N6A-KB	RHR Noz. N6A to Safe-end	UT, PT	3	006-109
B5.10	1B13-N6A-KC	RHR Noz. N6A Safe-end to Safe-End Ext	UT, PT	1	006-109
B5.10	1B13-N6B-KB	RHR Noz. N6B to Safe-end	UT, PT	3	006-109
B5.10	1B13-N6B-KC	RHR Noz. N6B Safe-end to Safe-End Ext	UT, PT	1	006-109
B5.10	1B13-N6C-KB	RHR Noz. N6C to Safe-end	UT, PT	1	006-109
B5.10	1B13-N6C-KC	RHR Noz. N6C Safe-end to Safe-End Ext	UT, PT	1	006-109
B5.10	1B13-N9A-KB	Jet Pump Noz. N9A to Safe-end	UT, PT	1	006-106
B5.10	1B13-N9B-KB	Jet Pump Noz. N9B to Safe-end	UT, PT	1	006-106
B5.10	1B13-N10-KB	CRD Return Noz. N10 to Safe-end	UT, PT	1	006-106
B5.20	1B13-N11-KB	N11 Differential Nozzle to Safe-end	PT	NS*	006-104
B5.20	1B13-N18-KB	N18 Differential Nozzle to Safe-end	PT	NS*	006-104
B5.130	1E12-0001A	20" CS Pipe to 20" SS Pipe Bimetallic Recirc. Intertie	UT, PT	2	642-118
B5.140	1C41-0004A	1-1/2" Pipe to Pipe	PT	2	691-101
B5.140	1G33-0005	2" Elbow to Pipe	PT	3	671-101
B5.130	1G33-0087	4" SS Sweepolet to CS Pipe Bimetallic Recirc. Intertie	UT, PT	2	671-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-F					
B5.130	1G33-0113	4" SS Sweepolet to CS Pipe Bimetallic Recirc. Interlie	UT, PT	1	671-107
B5.30		Not Applicable at PNPP			
B5.40		Not Applicable at PNPP			
B5.50		Not Applicable at PNPP			
B5.60		Not Applicable at PNPP			
B5.70		Not Applicable at PNPP			
B5.80		Not Applicable at PNPP			
B5.90		Not Applicable at PNPP			
B5.100		Not Applicable at PNPP			
B5.110		Not Applicable at PNPP			
B5.120		Not Applicable at PNPP			
B5.150		Not Applicable at PNPP			

\*Not scheduled due to inaccessibility (see relief request IR-001).

EXAMINATION CATEGORY: B-G-1

B6.10	1B13-A1-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-A1-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-A1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-A1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-A1-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-A2-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-A2-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-A2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-A2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-A2-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-A3-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-A3-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-A3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-A3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-A3-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1						
B6.10	1B13-A4-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A4-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A4-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A4-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112
B6.10	1B13-A5-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A5-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A5-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A5-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112
B6.10	1B13-A6-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A6-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A6-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A6-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112
B6.10	1B13-A7-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A7-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A7-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A7-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112
B6.10	1B13-A8-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A8-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A8-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A8-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112
B6.10	1B13-A9-N	RPV CLOSURE HEAD NUT		UT/MT	1	006-112
B6.20	1B13-A9-S	RPV CLOSURE HEAD STUD		UT	1	006-112
B6.30	1B13-A9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)		MT	SR	006-112
B6.40	1B13-A9-T	RPV SHELL, THREADS IN FLANGE AREA		UT	1	006-112
B6.50	1B13-A9-W	RPV CLOSURE HEAD WASHER		VT-1	1	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-B1-N	RPV CLOSURE HEAD NUT	UT/MT	:	006-112
B6.20	1B13-B1-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B1-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B2-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B2-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B2-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B3-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B3-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B3-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B4-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B4-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B4-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B5-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B5-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B5-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B6-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B6-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B6-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-B7-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B7-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B7-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B8-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B8-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B8-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-B9-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-B9-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-B9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-B9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-B9-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-C1-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C1-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C1-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C2-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C2-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C2-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C3-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C3-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C3-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM. METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-C4-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C4-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C4-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C5-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C5-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C5-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C6-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C6-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C6-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C7-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C7-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C7-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C8-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C8-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C8-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-C9-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-C9-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-C9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-C9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-C9-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-i					
B6.10	1B13-D1-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D1-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D1-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-D2-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D2-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D2-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-D3-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D3-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D3-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-D4-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D4-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D4-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-D5-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D5-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D5-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112
B6.10	1B13-D6-N	RPV CLOSURE HEAD NUT	UT/MT	1	006-112
B6.20	1B13-D6-S	RPV CLOSURE HEAD STUD	UT	1	006-112
B6.30	1B13-D6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	1	006-112
B6.50	1B13-D6-W	RPV CLOSURE HEAD WASHER	VT-1	1	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: 3-G-1					
B6.10	1B13-D7-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-D7-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-D7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-D7-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-D8-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-D8-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-D8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-D8-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-D9-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-D9-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-D9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-D9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-D9-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E1-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E1-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E1-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E2-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E2-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E2-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E3-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E3-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E3-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-4-1					
B6.10	1B13-E4-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E4-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E4-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E5-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E5-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E5-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E6-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E6-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E6-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E7-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E7-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E7-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E8-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E8-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E8-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-E9-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-E9-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-E9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-E9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-E9-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-F1-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-F1-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-F1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-F1-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-F2-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-F2-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-F2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-F2-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-F3-N	RPV CLOSURE HEAD NUT	UT/MT	2	006-112
B6.20	1B13-F3-S	RPV CLOSURE HEAD STUD	UT	2	006-112
B6.30	1B13-F3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	2	006-112
B6.50	1B13-F3-W	RPV CLOSURE HEAD WASHER	VT-1	2	006-112
B6.10	1B13-F4-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F4-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F4-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-F5-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F5-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F5-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-F6-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F6-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F6-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI 730 SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-F7-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F7-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F7-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-F8-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F8-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F8-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-F9-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-F9-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-F9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-F9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-F9-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G1-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G1-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G1-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G2-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G2-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G2-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G3-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G3-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G3-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-G4-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G4-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G4-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G5-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G5-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G5-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G6-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G6-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G6-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G7-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G7-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G7-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G8-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G8-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G8-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-G9-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-G9-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-G9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-G9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-G9-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-H1-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H1-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H1-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H1-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H1-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H2-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H2-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H2-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H2-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H2-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H3-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H3-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H3-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H3-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H3-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H4-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H4-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H4-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H4-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H4-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H5-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H5-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H5-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H5-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H5-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H6-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H6-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H6-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H6-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H6-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EYAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.10	1B13-H7-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-1.2
B6.20	1B13-H7-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H7-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H7-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H7-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H8-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H8-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H8-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H8-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H8-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.10	1B13-H9-N	RPV CLOSURE HEAD NUT	UT/MT	3	006-112
B6.20	1B13-H9-S	RPV CLOSURE HEAD STUD	UT	3	006-112
B6.30	1B13-H9-S(R)	RPV CLOSURE HEAD STUD (WHEN REMOVED)	MT	SR	006-112
B6.40	1B13-H9-T	RPV SHELL, THREADS IN FLANGE AREA	UT	3	006-112
B6.50	1B13-H9-W	RPV CLOSURE HEAD WASHER	VT-1	3	006-112
B6.60		NOT APPLICABLE TO PNPP			
B6.70		NOT APPLICABLE TO PNPP			
B6.80		NOT APPLICABLE TO PNPP			
B6.90		NOT APPLICABLE TO PNPP			
B6.100		NOT APPLICABLE TO PNPP			
B6.110		NOT APPLICABLE TO PNPP			
B6.120		NOT APPLICABLE TO PNPP			
B6.130		NOT APPLICABLE TO PNPP			
B6.140		NOT APPLICABLE TO PNPP			
B6.150		NO BOLTING			
B6.160		NO BOLTING			
B6.170		NO BOLTING			
B6.180	1B33-C001A-1B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-1N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-2B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-2N	NUT	VT-1	NS	602-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.180	1B33-C001A-3B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-3N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-4B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-4N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-5B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-5N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-6B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-6N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-7B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-7N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-8B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-8N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-9B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-9N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-10B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-10N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-11B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-11N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-12B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-12N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-13B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-13N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-14B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-14N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-15B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-15N	NUT	VT-1	NS	602-105
B6.180	1B33-C001A-16B	PUMP BOLTING	UT	NS	602-105
B6.200	1B33-C001A-16N	NUT	VT-1	NS	602-105
B6.190	1B33-C001A-FLG	FLANGE SURFACE WHEN DISASSEMBLED	VT-1	NS	602-105
B6.180	1B33-C001B-1B	PUMP BOLTING	UT	1	602-105
B6.200	1B33-C001B-1N	NUT	VT-1	1	602-105
B6.180	1B33-C001B-2B	PUMP BOLTING	UT	1	602-105
B6.200	1B33-C001B-2N	NUT	VT-1	1	602-105
B6.180	1B33-C001B-3B	PUMP BOLTING	UT	1	602-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.200	1B33-C001B-3N	NUT	VT-1	1	602-105
B6.180	1B33-C001B-4B	PUMP BOLTING	UT	1	602-105
B6.200	1B33-C001B-4N	NUT	VT-1	1	602-105
B6.180	1B33-C001B-5B	PUMP BOLTING	UT	1	602-105
B6.200	1B33-C001B-5N	NUT	VT-1	1	602-105
B6.180	1B33-C001B-6B	PUMP BOLTING	UT	2	602-105
B6.200	1B33-C001B-6N	NUT	VT-1	2	602-105
B6.180	1B33-C001B-7B	PUMP BOLTING	UT	2	602-105
B6.200	1B33-C001B-7N	NUT	VT-1	2	602-105
B6.180	1B33-C001B-8B	PUMP BOLTING	UT	2	602-105
B6.200	1B33-C001B-8N	NUT	VT-1	2	602-105
B6.180	1B33-C001B-9B	PUMP BOLTING	UT	2	602-105
B6.200	1B33-C001B-9N	NUT	VT-1	2	602-105
B6.180	1B33-C001B-10B	PUMP BOLTING	UT	2	602-105
B6.200	1B33-C001B-10N	NUT	VT-1	2	602-105
B6.180	1B33-C001B-11B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-11N	NUT	VT-1	3	602-105
B6.180	1B33-C001B-12B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-12N	NUT	VT-1	3	602-105
B6.180	1B33-C001B-13B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-13N	NUT	VT-1	3	602-105
B6.180	1B33-C001B-14B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-14N	NUT	VT-1	3	602-105
B6.180	1B33-C001B-15B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-15N	NUT	VT-1	3	602-105
B6.180	1B33-C001B-16B	PUMP BOLTING	UT	3	602-105
B6.200	1B33-C001B-16N	NUT	VT-1	3	602-105
B6.190	1B33-C001B-FLG	FLANGE SURFACE WHEN DISASSEMBLED	VT-1	1	602-105
B6.210	1B21-F022A-1B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-2B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-3B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-4B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-5B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-6B	MSIV BOLTING	UT	NS	605-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.210	1B21-F022A-7B	MSIV BOLTING	UT	NS	505-101
B6.210	1B21-F022A-8B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-9B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-10B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-11B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-12B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-13B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-14B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-15B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-16B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-17B	MSIV BOLTING	UT	NS	605-101
B6.210	1B21-F022A-18B	MSIV BOLTING	UT	NS	605-101
B6.230	1B21-F022A-1N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-2N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-3N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-4N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-5N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-6N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-7N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-8N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-9N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-10N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-11N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-12N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-13N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-14N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-15N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-16N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-17N	MSIV NUT	VT-1	NS	605-101
B6.230	1B21-F022A-18N	MSIV NUT	VT-1	NS	605-101
B6.220	1B21-F022A-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-101
B6.210	1B21-F022B-1B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-2B	MSIV BOLTING	UT	NS	605-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.210	1B21-F022B-3B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-4B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-5B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-6B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-7B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-8B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-9B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-10B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-11B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-12B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-13B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-14B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-15B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-16B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-17B	MSIV BOLTING	UT	NS	605-102
B6.210	1B21-F022B-18B	MSIV BOLTING	UT	NS	605-102
B6.230	1B21-F022B-1N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-2N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-3N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-4N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-5N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-6N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-7N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-8N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-9N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-10N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-11N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-12N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-13N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-14N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-15N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-16N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-17N	MSIV NUT	VT-1	NS	605-102
B6.230	1B21-F022B-18N	MSIV NUT	VT-1	NS	605-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: R-G-1					
B6.220	1B21-FO22B-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-103
B6.210	1B21-FO22C-1B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-2B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-3B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-4B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-5B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-6B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-7B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-8B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-9B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-10B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-11B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-12B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-13B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-14B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-15B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-16B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-17B	MSIV BOLTING	UT	NS	605-103
B6.210	1B21-FO22C-18B	MSIV BOLTING	UT	NS	605-103
B6.230	1B21-FO22C-1N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-2N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-3N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-4N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-5N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-6N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-7N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-8N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-9N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-10N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-11N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-12N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-13N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-14N	MSIV NUT	VT-1	NS	605-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.230	1B21-FO22C-15N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-16N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-17N	MSIV NUT	VT-1	NS	605-103
B6.230	1B21-FO22C-18N	MSIV NUT	VT-1	NS	605-103
B6.220	1B21-FO22C-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-103
B6.210	1B21-FO22D-1B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-2B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-3B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-4B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-5B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-6B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-7B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-8B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22L-9B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-10B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-11B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-12B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-13B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-14B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-15B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-16B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-17B	MSIV BOLTING	UT	NS	605-104
B6.210	1B21-FO22D-18B	MSIV BOLTING	UT	NS	605-104
B6.230	1B21-FO22D-1N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-2N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-3N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-4N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-5N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-6N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-7N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-8N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-9N	MSIV NUT	VT-1	NS	605-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.230	1B21-FO22D-10N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-11N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-12N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-13N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-14N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-15N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-16N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-17N	MSIV NUT	VT-1	NS	605-104
B6.230	1B21-FO22D-18N	MSIV NUT	VT-1	NS	605-104
B6.220	1B21-FO22D-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-104
B6.210	1B21-FO28A-1B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-2B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-3B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-4B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-5B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-6B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-7B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-8B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-9B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-10B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-11B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-12B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-13B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-14B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-15B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-16B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-17B	MSIV BOLTING	UT	1	605-111
B6.210	1B21-FO28A-18B	MSIV BOLTING	UT	1	605-111
B6.230	1B21-FO28A-1N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-FO28A-2N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-FO28A-3N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-FO28A-4N	MSIV NUT	VT-1	1	605-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 55-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.230	1B21-PO28A-5N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-6N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-7N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-8N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-9N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-10N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-11N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-12N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-13N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-14N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-15N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-16N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-17N	MSIV NUT	VT-1	1	605-111
B6.230	1B21-PO28A-18N	MSIV NUT	VT-1	1	605-111
B6.220	1B21-PO28A-FLG	MSIV FLANGE SURFACE	VT-1	1	605-111
B6.210	1B21-PO28B-1B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-2B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-3B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-4B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-5B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-6B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-7B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-8B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-9B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-10B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-11B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-12B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-13B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-14B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-15B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-16B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-17B	MSIV BOLTING	UT	NS	605-108
B6.210	1B21-PO28B-18B	MSIV BOLTING	UT	NS	605-108

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>CLAS. NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.230	1B21-F028B-1N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-2N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-3N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-4N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-5N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-6N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-7N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-8N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-9N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-10N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-11N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-12N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-13N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-14N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-15N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-16N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-17N	MSIV NUT	VT-1	NS	605-108
B6.230	1B21-F028B-18N	MSIV NUT	VT-1	NS	605-108
B6.220	1B21-F028B-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-108
B6.210	1B21-F028C-1B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-2B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-3B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-4B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-5B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-6B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-7B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-8B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-9B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-10B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-11B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-12B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-13B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-14B	MSIV BOLTING	UT	NS	605-109

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.210	1B21-F028C-15B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-16B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-17B	MSIV BOLTING	UT	NS	605-109
B6.210	1B21-F028C-18B	MSIV BOLTING	UT	NS	605-109
B6.230	1B21-F028C-1N	MSIV NUT	VT-1	NS	605-109
B6.230	1B21-F028C-2N	MSIV NUT	VT-1	NS	505-109
B6.230	1B21-F028C-3N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-4N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-5N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-6N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-7N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-8N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-9N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-10N	MSIV NUT	V1-1	NS	605-109
B6.230	1B21-F028C-11N	MSIV NUT	V2-1	NS	605-109
B6.230	1B21-F028C-12N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-13N	MSIV NUT		NS	605-109
B6.230	1B21-F028C-14N	MSIV NUT	VT-1	NS	605-109
B6.230	1B21-F028C-15N	MSIV NUT	VT-1	NS	605-109
B6.230	1B21-F028C-16N	MSIV NUT	VT-1	NS	605-109
B6.230	1B21-F028C-17N	MSIV NUT	VT-1	NS	605-109
B6.230	1B21-F028C-18N	MSIV NUT	VT-1	NS	605-109
B6.220	1B21-F028C-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-109
B6.210	1B21-F028D-1B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-2B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-3B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-4B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-5B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-6B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-7B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-8B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-F028D-9B	MSIV BOLTING	UT	NS	605-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-1					
B6.210	1B21-PO28D-10B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-11B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-12B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-13B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-14B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-15B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-16B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-17B	MSIV BOLTING	UT	NS	605-110
B6.210	1B21-PO28D-18B	MSIV BOLTING	UT	NS	605-110

B6.230	1B21-PO28D-1N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-2N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-3N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-4N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-5N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-6N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-7N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-8N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-9N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-10N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-11N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-12N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-13N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-14N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-15N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-16N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-17N	MSIV NUT	VT-1	NS	605-110
B6.230	1B21-PO28D-18N	MSIV NUT	VT-1	NS	605-110
B6.220	1B21-PO28D-FLG	MSIV FLANGE SURFACE	VT-1	NS	605-110

EXAMINATION CATEGORY: B-G-2

B7.10	1B13-N7-B	N7 RPV HEAD SPARE NOZ. BOLTING	VT-1	2	006-103
B7.10	1B13-N8-B	N8 RPV HEAD SPRAY NOZ. BOLTING	VT-1	1,2,3	006-103

Inservice Examination Interval Listing (Cont.)

<u>ITFH</u> <u>NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM</u> <u>METHOD</u>	<u>PERIOD</u> <u>SCHED.</u>	<u>ISI ISO</u> <u>SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.10	1B13-N16-B	N16 VIBRATION NOZ. BOLTING	VT-1	1	006-105
B7.20		NO BOLTING			
B7.30		NO BOLTING			
B7.40		NO BOLTING			
B7.50	1B21-P041A-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-101
B7.50	1B21-P041B-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P041C-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-103
B7.50	1B21-P041D-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-104
B7.50	1B21-P041E-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-101
B7.50	1B21-P041F-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P041G-B	SRV BOLTING, 12 EACH	Vi-1	1,2,3	605-103
B7.50	1B21-P041K-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P047B-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P047C-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-103
B7.50	1B21-P047D-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-104
B7.50	1B21-P047F-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P047G-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-103
B7.50	1B21-P047H-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-104
B7.50	1B21-P051A-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-101
B7.50	1B21-P051B-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-102
B7.50	1B21-P051C-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-103
B7.50	1B21-P051D-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-104
B7.50	1B21-P051G-B	SRV BOLTING, 12 EACH	VT-1	1,2,3	605-103
B7.50	1B21-0168-B	HEAD VENT/POOL FLOOR FLANGE CONNECTION BOLTING	VT-1	1,2,3	605-106
B7.50	1B21-0186-B	FLANGE BOLTING AT RPV HEAD VENT CONN TO HEAD SPRAY TEE	VT-1	1,2,3	605-105
B7.50	1B33-0010-B	BLANK FLG DECON CONN.	VT-1	2	602-102
B7.50	1B33-0017-B	BLANK FLG DECON CONN.	VT-1	3	602-102
B7.50	1B33-0072-B	BLANK FLG DECON CONN.	VT-1	3	602-104
B7.50	1B33-0079-B	BLANK FLG DECON CONN.	VT-1	3	602-104
B7.50	1E51-0001-B	FLANGE BOLTING	VT-1	1,2,3	631-108
B7.50	1E51-0009-B	FLANGE BOLTING	VT-1	1,2,3	631-108
B7.70	1B33-F023A-B	22" VALVE BOLTING	VT-1	1	502-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.70	1B33-F023B-B	22" VALVE BOLTING	VT-1	3	602-104
B7.70	1B33-F060A-B	24" VALVE BOLTING	VT-1	1	602-102
B7.70	1B33-F060B-B	24" VALVE BOLTING	VT-1	2	602-104
B7.70	1B33-F067A-B	24" VALVE BOLTING	VT-1	2	602-102
B7.70	1B33-F067B-B	24" VALVE BOLTING	VT-1	3	602-104
B7.70	1E22-F0004-B	12" VALVE BOLTING	VT-1	3	701-108
B7.80	1B13-02/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-02/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-02/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-02/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-02/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-06/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-10/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.80	1B13-14/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-11C
B7.80	1B13-14/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-14/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.90	1B13-18/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-18/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/03-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.80	1B13-22/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-22/59-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/03-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-26/59-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/03-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-30/59-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/03-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.80	1B13-34/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.30	1B13-34/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-34/59-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/03-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-38/59-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.80	1B13-42/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
E7.80	1B13-42/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-42/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/07-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-46/55-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/11-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-50/51-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/15-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
E7.80	1B13-54/19-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B7.80	1B13-54/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SP	006-110
B7.80	1B13-54/43-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-54/47-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-58/23-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SK	006-110
B7.80	1B13-58/27-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-58/31-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-58/35-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
B7.80	1B13-58/39-B	CRD FLANGE BOLTING WHEN DISASSEMBLED	VT-1	SR	006-110
EXAMINATION CATEGORY: B-H					
B8.10	1B13-CG	BOTTOM HEAD TO SKIRT	MT	1,2,3	006-104
B8.20		NOT APPLICABLE AT PNPP			
B8.30		NOT APPLICABLE AT PNPP			
B8.40		NOT APPLICABLE AT PNPP			
EXAMINATION CATEGORY: B-J					
B9.11	1B13-0001	RPV Vent & Head Spray Tee, Flange to Tee	UT, PT	NS	631-108
B9.11	1B13-0002	RPV Vent & Head Spray Tee, Tee to Eccentric Reducer	UT, PT	NS	631-108
B9.11	1B13-0003	RPV Vent & Head Spray Tee, Eccentric Reducer to Flange	UT, PT	3	631-108
B9.11	1B13-0004	RPV Vent & Head Spray Tee, Tee to Flange at N8 Connection	UT, PT	NS	631-108
B9.11	1B13-N9A-KC	Jet Pump Instrumentation Nozzle N9A Safe-End to Penetration Seal	UT, PT	1	006-106
B9.11	1B13-N9B-KC	Jet Pump Instrumentation Nozzle N9B Safe-End to Penetration Seal	UT, PT	1	006-106
B9.21	1B13-N10-KC	CRD Return Noz. Safe-end to Cap	PT	1	006-106
B9.11	1B21-0001	Safe-end to 26" Pipe	UT, PT	2	605-103
B9.12	1B21-0001-D	26" Pipe Seam, Dnstrm.	UT, PT	2	605-103
B9.11	1B21-0002	26" Pipe to Elbow	UT, PT	2	605-103
B9.12	1B21-0002-U	26" Pipe Seam, Upstrm.	UT, PT	2	605-103
B9.12	1B21-0002-D	26" Elbow Seam CW to Flow, Dnstrm.	UT, PT	2	605-103
B9.11	1B21-0003	26" Elbow to Pipe	UT, PT	2	605-103
B9.12	1B21-0003-D	26" Pipe Seam, Downstream	UT, PT	2	605-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-G-2					
B9.12	1B21-0003-U	26" Elbow Seam Clockwise to Flow, Upstream	UT, PT	2	605-103
B9.11	1B21-0004	26" Pipe to 30° Pipe Bend	UT, PT	NS	605-103
B9.12	1B21-0004-U	26" Pipe Seam, Upstream	UT, PT	NS	605-103
B9.12	1B21-0004-D	26" Pipe Seam, Downstream	UT, PT	NS	605-103
B9.11	1B21-0005	26" Pipe to Elbow	UT, PT	NS	605-103
B9.12	1B21-0005-U	26" Pipe Seam, Upstream	UT, PT	NS	605-103
B9.12	1B21-0005-D	26" Elbow Seam, Clockwise to Flow, Downstream	UT, PT	NS	605-103
B9.11	1B21-0006	26" Pipe to Elbow	UT, PT	NS	605-103
B9.12	1B21-0006-U	26" Elbow Seam, Clockwise to Flow, Upstream	UT, PT	NS	605-103
B9.12	1B21-0006-D	26" Pipe Seam, Downstream	UT, PT	NS	605-103
EXAMINATION CATEGORY: B-J					
B9.31	1B21-0007	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	1	605-103
B9.31	1B21-0008	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	2	605-103
B9.31	1B21-0009	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-103
B9.31	1B21-0010	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	2	605-103
B9.31	1B21-0011	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	ES	605-103
B9.31	1B21-0012	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-103
B9.11	1B21-0013	26" Pipe to Elbow	UT, PT	NS	605-103
B9.12	1B21-0013-U	26" Pipe Seam, Upstream	UT, PT	NS	605-103
B9.12	1B21-0013-D1	26" Elbow Short Seam, Downstream	UT, PT	NS	605-103
B9.12	1B21-0013-D2	26" Elbow Long Seam, Downstream	UT, PT	NS	605-103
B9.11	1B21-0013A	26" Pipe to Pipe	UT, PT	NS	605-103
B9.12	1B21-0013A-U	26" Pipe Seam Upstream	UT, PT	NS	605-103
B9.12	1B21-0013A-D	26" Pipe Seam Downstream	UT, PT	NS	605-103
B9.11	1B21-0014	26" Elbow to Valve B21-F022C	UT, PT	NS	605-103
B9.12	1B21-0014-U1	26" Elbow Short Seam, Upstream	UT, PT	NS	605-103
B9.12	1B21-0014-U2	26" Elbow Long Seam, Upstream	UT, PT	NS	605-103
B9.11	1B21-0015	26" Valve B21-F022C to Penetration P122 Process Pipe	UT, PT	3	605-103
B9.11	1B21-0016	26" Penetration P122 Process Pipe to Valve B21-F028C	UT, PT	1	605-109
B9.11	1B21-0020	10" Contour Nozzle to Flange	UT, PT	NS	605-103
B9.11	1B21-0021	10" Contour Nozzle to Flange	UT, PT	NS	605-103
B9.11	1B21-0022	10" Contour Nozzle to Flange	UT, PT	NS	605-103
B9.11	1B21-0023	10" Contour Nozzle to Flange	UT, PT	NS	605-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B21-0024	10" Contour Nozzle to Flange	UT, PT	NS	605-103
B9.11	1B21-0025	10" Contour Nozzle to Flange	UT, PT	2	605-103
B9.11	1B21-0038	Safe-end to 26" Pipe	UT, PT	3	605-104
B9.12	1B21-0C38-D	26" Pipe Seam, Dnstrm.	UT, PT	3	605-104
B9.11	1B21-0039	26" Pipe to Elbow	UT, PT	3	605-104
B9.12	1B21-0039-U	26" Pipe Seam, Upstrm.	UT, PT	3	605-104
B9.12	1B21-0039-D	26" Elbow Seam CW to Flow, Dnstrm.	UT, PT	3	605-104
B9.11	1B21-0040	26" Pipe to Elbow	UT, PT	3	605-104
B9.11	1B21-0040-U	26" Elbow Seam CW to Flow, Upstrm.	UT, PT	3	605-104
B9.12	1B21-0040-D	26" Pipe Seam, Dnstrm.	UT, PT	3	605-104
B9.11	1B21-0041	26" Pipe to Pipe	UT, PT	NS	605-104
B9.12	1B21-0041-U	26" Pipe Seam, Upstream	UT, PT	NS	605-104
B9.12	1B21-0041-D	26" Pipe Seam, Downstream	UT, PT	NS	605-104
B9.11	1B21-0042	26" Pipe to Elbow	UT, PT	NS	605-104
B9.12	1B21-0042-U	26" Pipe Seam, Upstream	UT, PT	NS	605-104
B9.12	1B21-0042-D	26" Elbow Seam, Clockwise to Flow, Downstream	UT, PT	NS	605-104
B9.11	1B21-0043	26" Elbow to Pipe	UT, PT	2	605-104
B9.12	1B21-0043-U	26" Elbow Seam, CW to Flow, Upstrm.	UT, PT	2	605-104
B9.12	1B21-0043-D	26" Pipe Seam, Dnstrm.	UT, PT	2	605-104
B9.31	1B21-0044	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	2	605-104
B9.31	1B21-0045	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-104
B9.31	1B21-0046	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-104
B9.31	1B21-0047	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-104
B9.11	1B21-0048	26" Pipe to Elbow	UT, PT	NS	605-104
B9.12	1B21-0048-U	26" Pipe Seam, Upstream	UT, PT	NS	605-104
B9.12	1B21-0048-D1	26" Elbow Short Seam, Downstream	UT, PT	NS	605-104
B9.12	1B21-0048-D2	26" Elbow Long Seam, Downstream	UT, PT	NS	605-104
B9.11	1B21-0049	26" Elbow to Valve B21-F022D	UT, PT	NS	605-104
B9.12	1B21-0049-U1	26" Elbow Short Seam, Upstream	UT, PT	NS	605-104
B9.12	1B21-0049-U2	26" Elbow Short Seam, Upstream	UT, PT	NS	605-104
B9.11	1B21-0050	26" Vlv B21-F022D to P415 Proc. Pipe	UT, PT	3	605-104
B9.11	1B21-0051	26" P415 Proc. Pipe to Vlv B21-F028D	UT, PT	1	605-110
B9.11	1B21-0055	10" Contour Nozzle to Flange	UT, PT	NS	605-104
B9.11	1B21-0056	10" Contour Nozzle to Flange	UT, PT	NS	605-104
B9.11	1B21-0057	10" Contour Nozzle to Flange	UT, PT	NS	605-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B21-0058	10" Contour Nozzle to Flange	UT, PT	NS	605-104
B9.11	1B21-0078	Safe-end to 26" Pipe	UT, PT	1	605-102
B9.12	1B21-0078-D	26" Pipe Seam, Dnstrm.	UT, PT	1	605-102
B9.11	1B21-0079	26" Pipe to Elbow	UT, PT	1	605-102
B9.12	1B21-0079-U	26" Pipe Seam, Upstrm.	UT, PT	1	605-102
B9.12	1B21-0079-D	26" Elbow Seam CW to Flow, Dnstrm.	UT, PT	1	605-102
B9.11	1B21-0080	26" Pipe to Elbow	UT, PT	1	605-102
B9.12	1B21-0080-U	26" Elbow Seam CW to Flow, Upstrm.	UT, PT	1	605-102
B9.12	1B21-0080-D	26" Pipe Seam, Dnstrm.	UT, PT	NS	605-102
B9.11	1B21-0081	26" Pipe to Pipe	UT, PT	NS	605-102
B9.12	1B21-0081-D	26" Pipe Seam, Downstream	UT, PT	NS	605-102
B9.12	1B21-0081-U	26" Pipe Seam, Upstream	UT, PT	NS	605-102
B9.11	1B21-0082	26" Pipe to Elbow	UT, PT	NS	605-102
B9.12	1B21-0082-U	26" Pipe Seam, Upstream	UT, PT	NS	605-102
B9.12	1B21-0082-D	26" Elbow Seam, Clockwise to Flow, Downstream	UT, PT	NS	605-102
B9.11	1B21-0083	26" Elbow to Pipe	UT, PT	NS	605-102
B9.12	1B21-0083-U	26" Elbow Seam, Clockwise to Flow, Upstream	UT, PT	NS	605-102
B9.12	1B21-0083-D	26" Pipe Seam, Downstream	UT, PT	1	605-102
B9.31	1B21-0084	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	1	605-102
B9.31	1B21-0085	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-102
B9.31	1B21-0086	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	2	605-102
B9.31	1B21-0087	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-102
B9.31	1B21-0088	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-102
B9.31	1B21-0089	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-102
B9.31	1B21-0089A	26" Pipe to Pipe	UT, PT	NS	605-102
B9.12	1B21-0089A-U	26" Pipe Seam, Upstream	UT, PT	NS	605-102
B9.12	1B21-0089A-D	26" Pipe Seam, Downstream	UT, PT	NS	605-102
B9.11	1B21-0090	26" Pipe to Elbow	UT, PT	NS	605-102
B9.12	1B21-0090-U	26" Pipe Seam, Upstream	UT, PT	NS	605-102
B9.12	1B21-0090-L1	26" Elbow Short Seam, Downstream	UT, PT	NS	605-102
B9.12	1B21-0090-D2	26" Elbow Long Seam, Downstream	UT, PT	NS	605-102
B9.11	1B21-0091	26" Elbow to Valve B21-F022B	UT, PT	NS	605-102
B9.12	1B21-0091-U1	26" Elbow Short Seam, Upstream	UT, PT	NS	605-102
B9.12	1B21-0091-U2	26" Elbow Long Seam, Upstream	UT, PT	NS	605-102
B9.11	1B21-0092	26" Vlv B21-F022B to P416 Proc. Pip	UT, PT	3	605-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B21-0093	26" P416 Proc. Pipe to Vlv	UT, PT	2	605-108
B9.11	1B21-0097	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0098	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0099	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0100	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0101	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0102	10" Contour Nozzle to Flange	UT, PT	NS	605-102
B9.11	1B21-0117	Safe-end to 26" Pipe	UT, PT	1	605-101
B9.12	1B21-0117-D	26" Pipe Seam, Dnstrm.	UT, PT	1	605-101
B9.11	1B21-0118	26" Pipe to Flow	UT, PT	1	605-101
B9.12	1B21-0118-U	26" Pipe Seam, Upstrm.	UT, PT	1	605-101
B9.12	1B21-0118-D	26" Elbow Seam CW to Flow, Dnstrm.	UT, PT	1	605-101
B9.11	1B21-0119	26" Pipe to Elbow	UT, PT	1	605-101
B9.12	1B21-0119-U	26" Elbow Seam CW to Flow, Upstrm.	UT, PT	1	605-101
B9.12	1B21-0119-D	26" Pipe Seam, Dnstrm.	UT, PT	1	605-101
B9.11	1B21-0120	26" Pipe to Pipe	UT, PT	NS	605-101
B9.12	1B21-0120-U	26" Pipe Seam, Upstream	UT, PT	NS	605-101
B9.12	1B21-0120-D	26" Pipe Seam, Downstream	UT, PT	NS	605-101
B9.31	1B21-0120A	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	3	605-101
B9.11	1B21-0121	26" Pipe to Elbow	UT, PT	NS	605-101
B9.12	1B21-0121-U	26" Pipe Seam, Upstream	UT, PT	NS	605-101
B9.12	1B21-0121-D	26" Elbow Seam, Clockwise to Flow, Downstream	UT, PT	NS	605-101
B9.11	1B21-0122	26" Elbow to Pipe	UT, PT	2	605-101
B9.12	1B21-0122-U	26" Elbow Seam, CW to Flow, Upstrm.	UT, PT	2	605-101
B9.12	1B21-0122-D	26" Pipe Seam, Dnstrm.	UT, PT	2	605-101
B9.31	1B21-0123	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	2	605-101
B9.31	1B21-0124	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-101
B9.31	1B21-0125	26" Pipe to 26" x 10" Contour Nozzle	UT, PT	NS	605-101
B9.11	1B21-0126	26" Pipe to Elbow	UT, PT	NS	605-101
B9.12	1B21-0126-U	26" Pipe Seam, Upstream	UT, PT	NS	605-101
B9.12	1B21-0126-D1	26" Elbow Short Seam, Downstream	UT, PT	NS	605-101
B9.12	1B21-0126-D2	26" Elbow Long Seam, Downstream	UT, PT	NS	605-101
B9.11	1B21-0127	26" Elbow to Valve B21-F022A	UT, PT	NS	605-101
B9.12	1B21-0127-U1	26" Elbow Short Seam, Upstream	UT, PT	NS	605-101
B9.12	1B21-0127-U2	26" Elbow Long Seam, Upstream	UT, PT	NS	605-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B21-0128	26" Vlv B21-F022A to P124 Proc. Pipe	UT, PT	3	605-101
B9.11	1B21-0129	26" P124 Proc. Pipe to Vlv B21-F028A	UT, PT	3	605-107
B9.11	1B21-0133	10" Contour Noz. to Flange	UT, PT	2	605-101
B9.11	1B21-0134	10" Contour Nozzle to Flange	UT, PT	NS	605-101
B9.11	1B21-0135	10" Contour Nozzle to Flange	UT, PT	NS	605-101
B9.32	1B21-0148	3" Branch Connection to 26" Steamline	PT	2	605-106
B9.21	1B21-0149	3" Pipe to B.W. Connection	PT	3	605-106
B9.21	1B21-0150	2" x 3" Reducing Elbow to 3" Pipe	PT	2	605-106
B9.21	1B21-0151	2" Pipe to 2" x 3" Reducing Elbow	PT	2	605-106
B9.21	1B21-0152	2" Elbow to Pipe	PT	1	605-106
B9.21	1B21-0153	2" Pipe to Elbow	PT	3	605-106
B9.40	1B21-0154	2" Valve F005 to Pipe	PT	2	605-106
B9.40	1B21-0155	2" Pipe to Valve F005	PT	2	605-106
B9.21	1B21-0156	2" Elbow to Pipe	PT	1	605-106
B9.21	1B21-0157	2" Pipe to Elbow	PT	3	605-106
B9.21	1B21-0158	2" Tee to Pipe	PT	2	605-106
B9.21	1B21-0159	2" Pipe to Tee	PT	NS	605-106
B9.21	1B21-0160	2" Elbow to Pipe	PT	NS	605-106
B9.21	1B21-0161	2" Pipe to Elbow	PT	NS	605-106
B9.21	1B21-0162	2" Elbow to Pipe	PT	NS	605-106
B9.21	1B21-0163	2" Pipe to Elbow	PT	NS	605-106
B9.21	1B21-0164	2" Elbow to Pipe	PT	NS	605-106
B9.21	1B21-0165	2" Pipe to Elbow	PT	NS	605-106
B9.21	1B21-0166	2" Elbow to Pipe	PT	2	605-106
B9.21	1B21-0167	2" Pipe to Elbow	PT	1	605-106
B9.21	1B21-0168	2" Flange to Pipe	PT	NS	605-106
B9.21	1B21-0169	2" Pipe to Flange	PT	NS	605-105
B9.21	1B21-0170	2" Elbow to Pipe	PT	NS	605-105
B9.21	1B21-0171	2" Pipe to Elbow	PT	NS	605-105
B9.21	1B21-0172	2" Elbow to Pipe	PT	2	605-105
B9.21	1B21-0173	2" Pipe to Elbow	PT	1	605-105
B9.21	1B21-0174	2" Elbow to Pipe	PT	NS	605-105
B9.21	1B21-0175	2" Pipe to Elbow	PT	NS	605-105
B9.21	1B21-0176	2" Elbow to Pipe	PT	NS	605-105
B9.21	1B21-0177	2" Pipe to Elbow	PT	NS	605-105

Service Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.21	1B21-0178	2" Elbow to Pipe	PT	NS	605-105
B9.21	1B21-0179	2" Pipe to Elbow	PT	NS	605-105
B9.21	1B21-0180	2" Elbow to Pipe	PT	NS	605-105
B9.21	1B21-0181	2" x 2" x 1" Tee to 2" Elbow	PT	NS	605-105
B9.21	1B21-0183	2" Pipe to 2" x 2" x 1" Tee	PT	NS	605-105
B9.21	1B21-0184	4" x 2" Reducing Elbow to 2" Pipe	PT	NS	605-105
B9.11	1B21-0185	4" Pipe to 4" x 2" Reducing Elbow	UT/PT	NS	605-105
B9.11	1B21-0186	4" Flange at B13-DO20 to Pipe	UT/PT	3	605-105
B9.21	1B21-0192	2" Tee to Pipe	PT	2	605-106
B9.40	1B21-0193	2" Pipe to Valve F002	PT	NS	605-106
B9.40	1B21-0194	2" Valve F002 to Pipe	PT	3	605-106
B9.40	1B21-0195	2" Pipe to Valve F0G1	PT	2	605-106
B9.11	1B33-0002	22" Nozzle N1A Safe-end to Pipe (CRC)	UT, PT	1	602-102
B9.12	1B33-0002-D	Pipe Seam Dnstrm.	UT, PT	1	602-102
B9.11	1B33-0003	22" Pipe to Elbow	UT, PT	2	602-102
B9.12	1B33-0003-U	Pipe Seam Upstrm.	PT	2	602-102
B9.12	1B33-0003-D1	Elbow Short Seam Dnstrm.	UT, PT	2	602-102
B9.12	1B33-0003-D2	Elbow Long Seam Dnstrm.	UT, PT	2	602-102
B9.11	1B33-0003A	22" Elbow to Pipe	UT, PT	2	602-102
B9.12	1B33-0003A-U1	Elbow Short Seam Upstrm.	UT, PT	2	602-102
B9.12	1B33-0003A-U2	Elbow Long Seam Upstrm.	UT, PT	2	602-102
B9.12	1B33-0003A-D	Pipe Seam Dnstrm.	UT, PT	2	602-102
B9.11	1B33-0004	22" Pipe to Pipe (CRC)	UT, PT	NS	602-102
B9.12	1B33-0004-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0004-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0005	22" Pipe to Elbow	UT, PT	NS	602-102
B9.12	1B33-0005-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0005-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-102
B9.12	1B33-0005-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0006	22" Elbow to Valve B33-F023A (CRC)	UT, PT	NS	602-102
B9.12	1B33-0006-U1	Elbow Short Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0006-U2	Elbow Long Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0007	22" Valve B33-F023A to pipe (CRC)	UT, PT	NS	602-102
B9.12	1B33-0007-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.31	1B33-0008	22" Pipe to 22" x 4" Contour Noz.	UT, PT	1	602-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ASME ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.31	1B33-0008A	22" Pipe to 22" x 4" Sweepolet	UT, PT	NS	602-102
B9.11	1B33-0009	22" x 4" Contour Noz. to 4" Pipe	UT, PT	3	602-102
B9.12	1B33-0009-D	Pipe Seam Dnstrm.	UT, PT	3	602-102
B9.11	1B33-0010	4" Pipe to Flange	UT, PT	NS	602-102
B9.12	1B33-0010-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.11	1B33-0011	22" Pipe to Elbow	UT, PT	NS	602-102
B9.12	1B33-0011-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0011-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-102
B9.12	1B33-0011-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0012	22" Elbow to Pump C001A Casing (CRC)	UT, PT	1	602-102
B9.12	1B33-0012-U1	Elbow Short Seam Upstrm.	UT, PT	1	602-102
B9.12	1B33-0012-U2	Elbow Long Seam Upstrm.	UT, PT	1	602-102
B9.11	1B33-0014	Pump C001A Casing to 24" Pipe (CRC)	UT, PT	2	602-102
B9.12	1B33-0014-D	Pipe Seam Dnstrm.	UT, PT	2	602-102
B9.31	1B33-0015	24" Pipe to 24" x 4" Contour Noz.	UT, PT	3	602-102
B9.11	1B33-0016	24" x 4" Contour Nozzle to 4" Pipe	UT, PT	NS	602-102
B9.12	1B33-0016-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0017	4" Pipe to Flange	UT, PT	NS	602-102
B9.12	1B33-0017-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.11	1B33-0018	24" Pipe to Valve B33-F060A (CRC)	UT, PT	NS	602-102
B9.12	1B33-0018-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.11	1B33-0019	24" Valve B33-F060A to Pipe (CRC)	UT, PT	NS	602-102
B9.12	1B33-0019-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0020	24" Pipe to Elbow	UT, PT	2	602-102
B9.12	1B33-0020-U	Pipe Seam Upstrm.	UT, PT	2	602-102
B9.12	1B33-0020-D1	Elbow Short Seam	UT, PT	2	602-102
B9.12	1B33-0020-D2	Elbow Long Seam	UT, PT	2	602-102
B9.11	1B33-0021	24" Elbow to Pipe	UT, PT	NS	602-102
B9.12	1B33-0021-U1	Elbow Short Seam	UT, PT	NS	602-102
B9.12	1B33-0021-U2	Elbow Long Seam	UT, PT	NS	602-102
B9.12	1B33-0021-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0022	24" Pipe to Valve B33-F067A (CRC)	UT, PT	NS	602-102
B9.12	1B33-0022-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.11	1B33-0023	24" Valve B33-F067A to Pipe (CRC)	UT, PT	NS	602-102
B9.12	1B33-0023-D	Pipe Seam, Downstream	UT, PT	NS	602-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B33-0024	24" Pipe to Elbow	UT, PT	NS	602-102
B9.12	1B33-0024-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0024-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-102
B9.12	1B33-0024-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0025	24" Elbow to Pipe	UT, PT	NS	602-102
B9.12	1B33-0025-U1	Elbow Short Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0025-U2	Elbow Long Seam, Upstream	UT, PT	NS	602-102
B9.12	1B33-0025-D	Pipe Seam, Downstream	UT, PT	NS	602-102
B9.11	1B33-0026	24" Pipe to 24" x 16" Cross (CRC)	UT, PT	NS	602-102
B9.12	1B33-0026-U	Pipe Seam, Upstream	UT, PT	NS	602-102
B9.11	1B33-0027	16" Pipe Cap to Pipe (CRC)	UT, PT	1	602-101
B9.12	1B33-0027-U	Pipe Seam Upstrm.	UT, PT	1	602-101
B9.31	1B33-0028	16" Pipe to 16" x 12" Sweepolet	UT, PT	1	602-101
B9.31	1B33-0029	16" Pipe to 16" x 12" Sweepolet	UT, PT	3	602-101
B9.11	1B33-0030	16" Pipe to 24" x 16" Cross	UT, PT	NS	602-101
B9.12	1B33-0030-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0031	24" x 16" Cross to 16" Pipe (CRC)	UT, PT	NS	602-101
B9.12	1B33-0031-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.31	1B33-0032	16" Pipe to 16" x 12" Sweepolet	UT, PT	3	602-101
B9.31	1B33-0033	16" Pipe to 16" x 12" Sweepolet	UT, PT	2	602-101
B9.11	1B33-0034	16" Pipe to Cap (CRC)	UT, PT	NS	602-101
B9.12	1B33-0034-U	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.11	1B33-0035	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	2	602-101
B9.12	1B33-0035-D	Pipe Seam Dwnstrm.	UT, PT	2	602-101
B9.11	1B33-0036	12" Pipe to Elbow	UT, PT	NS	602-101
B9.12	1B33-0036-U	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.12	1B33-0036-D	Elbow Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0037	12" Elbow to Pipe	UT, PT	3	602-101
B9.12	1B33-0037-U	Elbow Seam Upstrm.	UT, PT	3	602-101
B9.12	1B33-0037-D	Pipe Seam Upstrm.	UT, PT	3	602-101
B9.11	1B33-0038	12" Pipe to Nozzle N2A Safe-end (CRC)	UT, PT	3	602-101
B9.12	1B33-0038-U	Pipe Seam Upstrm.	UT, PT	3	602-101
B9.11	1B33-0040	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	NS	602-101
B9.12	1B33-0040-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0041	12" Pipe to Elbow	UT, PT	NS	602-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.12	1B33-0041-U	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.12	1B33-0041-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0047	12" Elbow to Pipe	UT, PT	3	602-101
B9.12	1B33-0042-U	Elbow Seam Upstrm.	UT, PT	3	602-101
B9.12	1B33-0042-D	Pipe Seam Dnstrm.	UT, PT	3	602-101
B9.11	1B33-0043	12" Pipe to Nozzle N2B Safe-end (CRC)	UT, PT	3	602-101
B9.12	1B33-0043-U	Pipe Seam Upstrm.	UT, PT	3	602-101
B9.11	1B33-0045	24" x 16" Cross to 24" x 12" Red.	UT, PT	2	602-101
B9.11	1B33-0046	24" x 12" Reducer to 12" Pipe (CRC)	UT, PT	NS	602-101
B9.12	1B33-0046-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0047	12" Pipe to Elbow	UT, PT	NS	602-101
B9.12	1B33-0047-U	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.12	1B33-0047-D	Elbow Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0048	12" Elbow to Pipe	UT, PT	NS	602-101
B9.12	1B33-0048-U	Elbow Seam, Upstream	UT, PT	NS	602-101
B9.12	1B33-0048-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0049	12" Pipe to Nozzle N2C Safe-end (CRC)	UT, PT	3	602-101
B9.12	1B33-0049-U	Pipe Seam Upstrm.	UT, PT	3	602-101
B9.11	1B33-0051	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	NS	602-101
B9.12	1B33-0051-D	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.12	1B33-0052-U	12" Pipe to Elbow	UT, PT	NS	602-101
B9.12	1B33-0052-D	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.11	1B33-0053	Elbow Seam, Downstream	UT, PT	NS	602-101
B9.12	1B33-0053-U	12" Elbow to Pipe	UT, PT	NS	602-101
B9.12	1B33-0053-D	Elbow Seam, Upstream	UT, PT	NS	602-101
B9.11	1B33-0054	Pipe Seam, Downstream	UT, PT	NS	602-101
B9.12	1B33-0054-U	12" Pipe to Nozzle N2D Safe-end (CRC)	UT, PT	3	602-101
B9.12	1B33-0054-D	Pipe Seam Upstrm.	UT, PT	3	602-101
B9.11	1B33-0056	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	1	602-101
B9.12	1B33-0056-D	Pipe Seam Dnstrm.	UT, PT	1	602-101
B9.11	1B33-0057	12" Pipe to Elbow	UT, PT	NS	602-101
B9.12	1B33-0057-U	Pipe Seam, Upstream	UT, PT	NS	602-101
B9.12	1B33-0057-D	Elbow Seam, Downstream	UT, PT	NS	602-101
B9.11	1B33-0058	12" Elbow to Pipe	UT, PT	1	602-101
B9.12	1B33-0058-U	Elbow Seam Upstrm.	UT, PT	1	602-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.12	1B33-0058-D	Pipe Seam Instrm.	UT, PT	1	602-101
B9.11	1B33-0059	12" Pipe to Nozzle N2E Safe-end (Circ)	UT, PT	1	602-101
B9.12	1B33-0059-U	Pipe Seam Upstrm.	UT, PT	1	602-101
B9.11	1B33-0062	22" Nozzle N1B Safe-end to Pipe (CRC)	UT, PT	2	602-104
B9.12	1B33-0062-D	Pipe Seam Instrm.	UT, PT	2	602-104
B9.11	1B33-0063	22" Pipe to Elbow	UT, PT	1	602-104
B9.12	1B33-0063-U	Pipe Seam Upstrm.	UT, PT	1	602-104
B9.12	1B33-0063-D1	Elbow Short Seam Instrm.	UT, PT	1	602-104
B9.12	1B33-0063-D2	Elbow Long Seam Instrm.	UT, PT	1	602-104
B9.11	1B33-0063A	22" Elbow to Pipe	UT, PT	1	602-104
B9.12	1B33-0063A-U1	Elbow Short Seam Upstrm.	UT, PT	1	602-104
B9.12	1B33-0063A-U2	Elbow Long Seam Upstrm.	UT, PT	1	602-104
B9.12	1B33-0063A-D	Pipe Seam Instrm.	UT, PT	1	602-104
B9.11	1B33-0064	22" Pipe to Pipe (CRC)	UT, PT	NS	602-104
B9.12	1B33-0064-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0064-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0065	22" Pipe to 22" x 22" x 20" TEE	UT, PT	NS	602-104
B9.12	1B33-0065-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.11	1B33-0066	22" x 22" x 20" TEE to 22" Pipe	UT, PT	NS	602-104
B9.12	1B33-0066-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0067	22" Pipe to Elbow	UT, PT	NS	602-104
B9.12	1B33-0067-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0067-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-104
B9.12	1B33-0067-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0068	22" Elbow to Valve B33-P023B (CRC)	UT, PT	NS	602-104
B9.12	1B33-0068-U1	Elbow Short Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0068-U2	Elbow Long Seam, Upstream	UT, PT	NS	602-104
B9.11	1B33-0069	Valve B33-P023B to 22" Pipe (CRC)	UT, PT	NS	602-104
B9.12	1B33-0069-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.31	1B33-0070	22" Pipe to 22" x 4" Contour Nozzle	UT, PT	NS	602-104
B9.31	1B33-0070A	22" Pipe to 22" x 4" Sweepolet	UT, PT	NS	602-104
B9.11	1B33-0071	22" x 4" Contour Noz. to 4" Pipe	UT, PT	1	602-104
B9.12	1B33-0071-D	Pipe Seam Instrm.	UT, PT	1	602-104
B9.11	1B33-0072	4" Pipe to Flange	UT, PT	NS	602-104
B9.12	1B33-0072-U	Pipe Seam, Upstream	UT, PT	NS	602-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B33-0073	22" Pipe to Elbow	UT, PT	NS	602-104
B9.12	1B33-0073-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0073-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-104
B9.12	1B33-0073-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0074	22" Elbow to Pump C001B Casing (CRC)	UT, PT	2	602-104
B9.12	1B33-0074-U1	Elbow Short Seam Upstream	UT, PT	2	602-104
B9.12	1B33-0074-U2	Elbow Long Seam Upstream	UT, PT	2	602-104
B9.11	1B33-0076	Pump C001B Casing to 24" Pipe (CRC)	UT, PT	1	602-104
B9.12	1B33-0076-D	Pipe Seam Downstream	UT, PT	1	602-104
B9.31	1B33-0077	24" Pipe to 24" x 4" Contour Nozzle	UT, PT	NS	602-104
B9.11	1B33-0078	24" x 4" Contour Nozzle to 4" Pipe	UT, PT	NS	602-104
B9.12	1B33-0078-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0079	4" Pipe to Flange	UT, PT	NS	602-104
B9.12	1B33-0079-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.11	1B33-0080	24" Pipe to Valve B33-F060B (CRC)	UT, PT	NS	602-104
B9.12	1B33-0080-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.11	1B33-0081	Vlv 333-F060B to 24" Pipe (CRC)	UT, PT	3	602-104
B9.12	1B33-0081-D	Pipe Seam Downstream	UT, PT	3	602-104
B9.11	1B33-0082	24" Pipe to Elbow	UT, PT	NS	602-104
B9.12	1B33-0082-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0082-D1	Elbow Short Seam, Downstream	UT, PT	NS	602-104
B9.12	1B33-0082-D2	Elbow Long Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0083	24" Elbow to Pipe	UT, PT	NS	602-104
B9.12	1B33-0083-U1	Elbow Short Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0083-U2	Elbow Long Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0083-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0084	24" Pipe to Valve B33-F067B (CRC)	UT, PT	NS	602-104
B9.12	1B33-0084-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.11	1B33-0085	24" Valve F067B to Pipe (CRC)	UT, PT	NS	602-104
B9.12	1B33-0085-D	Pipe Seam, Downstream	UT, PT	NS	602-104
B9.11	1B33-0086	24" Pipe to Elbow	UT, PT	NS	602-104
B9.12	1B33-0086-U	Pipe Seam, Upstream	UT, PT	NS	602-104
B9.12	1B33-0086-D1	Elbow Long Seam Downstream	UT, PT	NS	602-104
B9.12	1B33-0086-D2	Elbow Long Seam Downstream	UT, PT	NS	602-104
B9.11	1B33-0087	24" Elbow to Pipe	UT, PT	NS	602-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.12	1B33-0087-U1	Elbow Short Seam Upstream	UT, PT	NS	602-104
B9.12	1B33-0087-U2	Elbow Long Seam Upstream	UT, PT	NS	602-104
B9.12	1B33-0087-D	Pipe Seam Downstream	UT, PT	NS	602-104
B9.11	1B33-0088	24" Pipe to 24" x 16" Cross (CRC)	UT, PT	1	602-104
B9.12	1B33-0088-U	Pipe Seam Upstrm.	UT, PT	1	602-104
B9.11	1B33-0089	16" Pipe Cap to Pipe (CRC)	UT, PT	NS	602-103
B9.12	1B33-0089-U	Pipe Seam Upstream	UT, PT	NS	602-103
B9.31	1B33-0090	16" Pipe to 16" x 12" Sweepolet	UT, PT	3	602-103
B9.31	1B33-0091	16" Pipe to 16" x 12" Sweepolet	UT, PT	1	602-103
B9.11	1B33-0092	16" Pipe to 24" x 16" Cross	UT, PT	NS	602-103
B9.12	1B33-0092-D	Pipe Seam Downstream	UT, PT	NS	602-103
B9.11	1B33-0093	24" x 16" Cross to 16" Pipe (CRC)	UT, PT	NS	602-103
B9.12	1B33-0093-D	Pipe Seam Downstream	UT, PT	NS	602-103
B9.31	1B33-0094	16" Pipe to 16" x 12" Sweepolet	UT, PT	2	602-103
B9.31	1B33-0095	16" Pipe to 16" x 12" Sweepolet	UT, PT	2	602-103
B9.11	1B33-0096	16" Pipe to Cap (CRC)	UT, PT	NS	602-103
B9.12	1B33-0096-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0097	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	2	602-103
B9.12	1B33-0097-D	Pipe Seam Dnstrm.	UT, PT	2	602-103
B9.11	1B33-0098	12" Pipe to Elbow	UT, PT	NS	602-103
B9.12	1B33-0098-D	Elbow Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0098-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0099	12" Elbow to Pipe	UT, PT	2	602-103
B9.12	1B33-0099-D	Pipe Seam Dnstrm.	UT, PT	2	602-103
B9.12	1B33-0099-U	Elbow Seam Upstrm.	UT, PT	2	602-103
B9.11	1B33-0100	12" Pipe to Nozzle N2F Safe-end (CRC)	UT, PT	2	602-103
B9.12	1B33-0100-U	Pipe Seam Upstrm	UT, PT	2	602-103
B9.11	1B33-0102	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	NS	602-103
B9.12	1B33-0102-D	Pipe Seam, Downstream	UT, PT	NS	602-103
B9.11	1B33-0103	12" Pipe to Elbow	UT, PT	NS	602-103
B9.12	1B33-0103-D	Elbow Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0103-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0104	12" Elbow to Pipe	UT, PT	3	602-103
B9.12	1B33-0104-D	Pipe Seam Dnstrm.	UT, PT	3	602-103
B9.12	1B33-0104-U	Elbow Seam Upstrm.	UT, PT	3	602-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1B33-0105	12" Pipe to Nozzle N2G Safe-end (CRC)	UT, PT	3	602-103
B9.12	1B33-0105-U	Pipe Seam Upstrm.	UT, PT	3	602-103
B9.11	1B33-0107	24" x 16" Cross to 24" x 12" Red.	UT, PT	1	602-103
B9.11	1B33-0108	24" x 12" Reducer to 12" Pipe (CRC)	UT, PT	NS	602-103
B9.12	1B33-0108-D	Pipe Seam, Downstream	UT, PT	NS	602-103
B9.11	1B33-0109	12" Pipe to Elbow	UT, PT	NS	602-103
B9.12	1B33-0109-D	Elbow Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0109-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0110	12" Elbow to Pipe	UT, PT	NS	602-103
B9.12	1B33-0110-D	Pipe Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0110-U	Elbow Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0111	12" Pipe to Nozzle N2H Safe-end (CRC)	UT, PT	1	602-103
B9.12	1B33-0111-U	Pipe Seam Upstrm.	UT, PT	1	602-103
B9.11	1LJ3-0113	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	NS	602-103
B9.12	1B33-0113-D	Pipe Seam, Downstream	UT, PT	NS	602-103
B9.11	1B33-0114	12" Pipe to Elbow	UT, PT	NS	602-103
B9.12	1B33-0114-D	Elbow Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0114-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0115	12" Elbow to Pipe	UT, PT	NS	602-103
B9.12	1B33-0115-D	Pipe Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0115-U	Elbow Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0116	12" Pipe to Nozzle N2J Safe-end (CRC)	UT, PT	3	602-103
B9.12	1B33-0116-U	Pipe Seam Upstrm.	UT, PT	3	602-103
B9.11	1B33-0118	16" x 12" Sweepolet to 12" Pipe (CRC)	UT, PT	3	602-103
B9.12	1B33-0118-D	Pipe Seam Dnstrm.	UT, PT	3	602-103
B9.11	1B33-0119	12" Pipe to Elbow	UT, PT	NS	602-103
B9.12	1B33-0119-D	Elbow Seam, Downstream	UT, PT	NS	602-103
B9.12	1B33-0119-U	Pipe Seam, Upstream	UT, PT	NS	602-103
B9.11	1B33-0120	12" Elbow to Pipe	UT, PT	2	602-103
B9.12	1B33-0120-D	Pipe Seam Dnstrm.	UT, PT	2	602-103
B9.12	1B33-0120-U	Pipe Seam Upstrm.	UT, PT	2	602-103
B9.11	1B33-0121	12" Pipe to Nozzle N2K Safe-end (CRC)	UT, PT	2	602-103
B9.12	1B33-0121-U	Pipe Seam Upstrm.	UT, PT	2	602-103
B9.32	C41-0001	Sweepolet to 12" Pipe	PT	1	691-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.21	1C41-0002	3" Pipe to Sweeplet	PT	NS	691-101
B9.21	1C41-0003	3" x 1 1/2" Reducing Elbow to 3" Pipe	PT	NS	691-101
B9.21	1C41-0004	1-1/2" Pipe to 3" x 1-1/2" Red. Elbow	PT	1	691-101
B9.40	1C41-0005	1-1/2" Elbow to Pipe	PT	1	691-101
B9.40	1C41-0006	1-1/2" Pipe to Elbow	PT	1	691-101
B9.40	1C41-0007	1-1/2" Vlv F036 to Pipe	PT	1	691-101
B9.40	1C41-0008	1-1/2" Pipe to Vlv F036	PT	1	691-101
B9.40	1C41-0008A	1-1/2" Elbow to Pipe	PT	NS	691-101
B9.40	1C41-0008B	1-1/2" Pipe to Elbow	PT	NS	691-101
B9.40	1C41-0008C	1-1/2" Elbow to Pipe	PT	NS	691-101
B9.40	1C41-0008D	1-1/2" Pipe to Elbow	PT	NS	691-101
B9.40	1C41-0009	1-1/2" Tee to Pipe	PT	1	691-101
B9.40	1C41-0010	1-1/2" Tee to 1-1/2" x 3/4" Red.	PT	1	691-101
B9.40	1C41-0011	1-1/2" Pipe to Tee	PT	2	691-101
B9.40	1C41-0012	1-1/2" Vlv F007 to Pipe	PT	2	691-101
B9.40	1C41-0013	1-1/2" Pipe to Vlv F007	PT	2	691-101
B9.40	1C41-0014	1-1/2" Elbow to Pipe	PT	2	691-101
B9.40	1C41-0015	1-1/2" Pipe to Elbow	PT	2	691-101
B9.40	1C41-0016	1-1/2" Elbow to Pipe	PT	2	691-101
B9.40	1C41-0017	1-1/2" Pipe to Elbow	PT	2	691-101
B9.40	1C41-0018	1-1/2" Elbow to Pipe	PT	3	691-101
B9.40	1C41-0019	1-1/2" Pipe to Elbow	PT	3	691-101
B9.40	1C41-0020	1-1/2" Elbow Pipe	PT	3	691-101
B9.40	1C41-0021	1-1/2" Pipe to Elbow	PT	3	691-101
B9.40	1C41-0021A	1-1/2" Coupling to Pipe	PT	NS	691-101
B9.40	1C41-0021B	1-1/2" Pipe to Coupling	PT	NS	691-101
B9.40	1C41-0022	1-1/2" Elbow to Pipe	PT	3	691-102
B9.40	1C41-0023	1-1/2" Pipe to Elbow	PT	3	691-102
B9.40	1C41-0024	1-1/2" Tee to Pipe	PT	3	691-102
B9.40	1C41-0025	1-1/2" x 3/4" Reducer to 1-1/2" Tee	PT	3	691-102
B9.40	1C41-0026	1-1/2" Pipe to Tee	PT	3	691-102
B9.40	1C41-0027	1-1/2" Vlv F006 to Pipe	PT	3	691-102
B9.11	1E12-0001	22" x 22" x 20" Tee to 20" Pipe	UT, PT	1	542-118
B9.11	1E12-0001A	20" C.S. Pipe to 20" S.S. Pipe Bimetallic Recirc. Intertie	UT, PT	NS	642-118

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E12-0002	20" Elbow to Pipe	UT, PT	NS	642-118
B9.11	1E12-0003	20" Pipe to Elbow	UT, PT	NS	642-118
B9.11	1E12-0004	20" Valve F010 to Pipe	UT, PT	NS	642-117
B9.11	1E12-0005	20" Pipe to Valve F010	UT, PT	NS	642-117
B9.11	1E12-0006	20" Valve F009 to Pipe	UT, PT	NS	642-117
B9.11	1E12-0007	20" Pipe to Valve F009	UT, PT	NS	642-117
B9.11	1E12-0008	20" Elbow to Pipe	UT, PT	NS	642-117
B9.11	1E12-0009	20" Pipe to Elbow	UT, PT	NS	642-117
B9.11	1E12-0010	20" P421 Proc. Pipe to Pipe	UT, PT	3	642-117
B9.11	1E12-0011	20" Pipe to P421 Proc. Pipe	UT, PT	2	642-101
B9.11	1E12-0012	20" Vlv F008 to Pipe	UT, PT	1	642-101
B9.11	1E12-0398	12" Valve F042A to Pipe	UT, PT	NS	642-126
B9.11	1E12-0399	12" Pipe to Elbow	UT, PT	NS	642-126
B9.11	1E12-0400	12" Elbow to Pipe	UT, PT	NS	642-126
B9.11	1E12-0401	12" Pipe to Elbow	UT, PT	1	642-126
B9.11	1E12-0402	12" Elbow to PRB2044 Proc. Pipe	UT, PT	3	642-126
B9.11	1E12-0403	12" PRB2044 Proc. Pipe to Pipe	UT, PT	1	642-125
B9.11	1E12-0403A	12" Pipe to Pipe	UT, PT	NS	642-125
B9.11	1E12-0404	12" Pipe to Vlv F0041A	UT, PT	1	642-125
B9.11	1E12-0405	12" Vlv F041A to Pipe	UT, PT	2	642-125
B9.11	1E12-0406	12" Pipe to Vlv F039A	UT, PT	2	642-125
B9.11	1E12-0407	12" Vlv F039A to Pipe	UT, PT	2	642-125
B9.11	1E12-0408	12" Pipe to Elbow	UT, PT	3	642-125
B9.11	1E12-0409	12" Elbow to Pipe	UT, PT	1	642-125
B9.11	1E12-0410	12" Pipe to Elbow	UT, PT	3	642-124
B9.11	1E12-0411	12" Elbow to Pipe	UT, PT	3	642-124
B9.11	1E12-0412	12" Pipe to safe-end Ext	UT, PT	3	642-124
B9.11	1E12-0437	6" Valve F0 to Pipe	UT, PT	NS	642-122
B9.11	1E12-0438	6" Pipe to Elbow	UT, PT	NS	642-122
B9.11	1E12-0439	6" Elbow to Pipe	UT, PT	2	642-122
B9.32	1E12-0439A	1-1/2" Coupling to 6" Pipe Branch	PT	2	642-122
B9.40	1E12-0439B	1-1/2" Coupling to Reducing Insert Socket Weld	PT	NS	642-122
B9.11	1E12-0440	6" Pipe to Valve F019	UT, PT	NS	642-122
B9.11	1E12-0441	6" Valve F019 to Pipe	UT, PT	NS	642-122
B9.11	1E12-0442	6" Pipe to 6" x 6" Tee RCIC Intert	UT, PT	2	642-122

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E12-0694	12" Valve F042B to Pipe	UT, PT	NS	642-137
B9.11	1E12-0695	12" Pipe to Elbow	UT, PT	3	642-137
B9.11	1E12-0696	12" Elbow to Pipe	UT, PT	3	642-137
B9.11	1E12-0697	12" Pipe to Elbow	UT, PT	NS	642-139
B9.11	1E12-0698	12" Elbow to Pipe	UT, PT	NS	642-139
B9.11	1E12-0698A	12" Pipe to Pipe	UT, PT	NS	642-139
B9.11	1E12-0699	12" Pipe to Elbow	UT, PT	NS	642-139
B9.11	1E12-0700	12" Elbow to Pipe	UT, PT	NS	642-139
B9.11	1E12-0701	12" Pipe to Elbow	UT, PT	NS	642-139
B9.11	1E12-0702	12" Elbow to Pipe	UT, PT	NS	642-139
B9.11	1E12-0703	12" Pipe to Pipe Bend	UT, PT	NS	642-139
B9.11	1E12-0704	12" Pipe Bend to Elbow	UT, PT	NS	642-139
B9.11	1E12-0705	12" Elbow to PRB2036 Proc. Pipe	UT, PT	2	642-139
B9.11	1E12-0706	12" PRB2036 Proc. Pipe to Elbow	UT, PT	2	642-140
B9.11	1E12-0707	12" Elbow to Pipe	UT, PT	2	642-140
B9.11	1E12-0708	12" Pipe to Elbow	UT, PT	1	642-141
B9.11	1E12-0709	12" Elbow to Pipe	UT, PT	1	642-141
B9.11	1E12-0710	12" Pipe to Elbow	UT, PT	2	642-141
B9.11	1E12-0711	12" Elbow to Pipe	UT, PT	1	642-141
B9.11	1E12-0713	12" Vlv F041B to Pipe	UT, PT	1	642-141
B9.11	1E12-0714	12" Pipe to Elbow	UT, PT	2	642-141
B9.11	1E12-0715	12" Elbow to Pipe	UT, PT	1	642-141
B9.11	1E12-0716	12" Pipe to Vlv F039B	UT, PT	2	642-141
B9.11	1E12-0717	12" Vlv F039B to Pipe	UT, PT	2	642-141
B9.11	1E12-0718	12" Pipe to Elbow	UT, PT	3	642-141
B9.11	1E12-0719	12" Elbow to Pipe	UT, PT	3	642-141
B9.11	1E12-0720	12" Pipe to Safe-end Ext	UT, PT	3	642-141
B9.11	1E12-0851	12" Valve F042C to Pipe	UT, PT	NS	642-134
B9.11	1E12-0851A	12" Pipe to Elbow	UT, PT	NS	642-134
B9.11	1E12-0851AA	12" Pipe to Pipe	UT, PT	NS	642-134
B9.11	1E12-0852	12" Elbow to Pipe	UT, PT	2	642-134
B9.11	1E12-0853	12" Pipe to Elbow	UT, PT	2	642-134
B9.11	1E12-0854	12" Elbow to Elbow	UT, PT	NS	642-134
B9.11	1E12-0855	12" Elbow to Pipe	UT, PT	2	642-134
B9.11	1E12-0855A	12" Pipe to Pipe	UT, PT	NS	642-134

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E12-0856	12" Pipe to P411 Proc. Pipe	UT, PT	2	642-134
B9.11	1E12-0857	12" P411 Proc. Pipe to Pipe	UT, PT	2	642-135
B9.11	1E12-0858	12" Pipe to Elbow	UT, PT	NS	642-135
B9.11	1E12-0859	12" Elbow to Pipe	UT, PT	NS	642-135
B9.11	1E12-0860	12" Pipe to Elbow	UT, PT	1	642-135
B9.11	1E12-0861	12" Elbow to Pipe	UT, PT	1	642-142
B9.11	1E12-0862	12" Pipe to Elbow	UT, PT	3	642-142
B9.11	1E12-0863	12" Elbow to Pipe	UT, PT	3	642-142
B9.11	1E12-0864	12" Pipe to Elbow	UT, PT	3	642-142
B9.11	1E12-0865	12" Elbow to Pipe	UT, PT	3	642-142
B9.11	1E12-0866	12" Pipe to Pipe	UT, PT	NS	642-142
B9.11	1E12-0867	12" Pipe to Elbow	UT, PT	3	642-142
B9.11	1E12-0868	12" Elbow to Pipe	UT, PT	3	642-142
B9.11	1E12-0869	12" Pipe to Elbow	UT, PT	NS	642-142
B9.11	1E12-0870	12" Elbow to Pipe	UT, PT	NS	642-142
B9.11	1E12-0871	12" Pipe to Elbow	UT, PT	NS	642-143
B9.11	1E12-0872	12" Elbow to Pipe	UT, PT	NS	642-143
B9.11	1E12-0873	12" Pipe to Elbow	UT, PT	2	642-143
B9.11	1E12-0874	12" Elbow to Pipe	UT, PT	?	642-143
B9.11	1E12-0875	12" Pipe to Elbow	UT, PT	1	642-143
B9.11	1E12-0876	12" Elbow to Pipe	UT, PT	1	642-143
B9.11	1E12-0877	12" Pipe to Elbow	UT, PT	2	642-143
B9.11	1E12-0878	12" Elbow to Pipe Bend	UT, PT	2	642-143
B9.11	1E12-0879	12" Pipe Bend to Elbow	UT, PT	NS	642-143
B9.11	1E12-0880	12" Elbow to PRB2035 Proc. Pipe	UT, PT	2	642-143
B9.11	1E12-0881	12" PRB2035 Proc. Pipe to Elbow	UT, PT	1	642-144
B9.11	1E12-0882	12" Elbow to Pipe	UT, PT	1	642-144
B9.11	1E12-0883	12" Pipe to Elbow	UT, PT	1	642-145
B9.11	1E12-0884	12" Elbow to Pipe	UT, PT	1	642-145
B9.11	1E12-0885	12" Pipe to Elbow	UT, PT	3	642-145
B9.11	1E12-0886	12" Elbow to Pipe	UT, PT	3	642-145
B9.11	1E12-0886A	12" Pipe to Pipe	UT, PT	NS	642-145
B9.11	1E12-0887	12" Pipe to Valve F041C	UT, PT	NS	642-145
B9.11	1E12-0889	12" Valve to F041C to Pipe	UT, PT	NS	642-145
B9.11	1E12-0889	12" Pipe to Elbow	UT, PT	3	642-145

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E12-0890	12" Elbow to Pipe	UT, PT	1	642-145
B9.11	1E12-0891	12" Pipe to Vlv F039C	UT, PT	3	642-145
B9.11	1E12-0892	12" Vlv F039C to Pipe	UT, PT	1	642-145
B9.11	1E12-0893	12" Pipe to Elbow	UT, PT	3	642-145
B9.11	1E12-0894	12" Elbow to Pipe	UT, PT	3	642-145
B9.11	1E12-0895	12" Pipe to Safe-end Ext.	UT, PT	3	642-145
B9.11	1E21-0001	12" Pipe to Safe-end Ext.	UT, PT	3	705-111
B9.11	1E21-0002	12" Elbow to Pipe	UT, PT	3	705-111
B9.11	1E21-0003	12" Pipe to Elbow	UT, PT	3	705-111
B9.11	1E21-0004	12" Vlv F007 to Pipe	UT, PT	2	705-111
B9.11	1E21-0005	12" Pipe to Vlv F007	UT, PT	2	705-111
B9.11	1E21-0006	12" Elbow to Pipe	UT, PT	2	705-111
B9.11	1E21-0007	12" Pipe to Elbow	UT, PT	1	705-111
B9.11	1E21-0008	12" Vlv F006 to Pipe	UT, PT	1	705-111
B9.11	1E21-0009	12" Pipe to Valve F006	UT, PT	NS	705-111
B9.11	1E21-0009A	12" Pipe to Pipe	UT, PT	NS	705-111
B9.11	1E21-0010	12" Elbow to Pipe	UT, PT	1	705-111
B9.11	1E21-0011	12" PRB3046 Proc. Pipe to Elbow	UT, PT	2	705-111
B9.11	1E21-0012	12" Elbow to Pipe	UT, PT	2	705-110
B9.11	1E21-0012A	12" Pipe to PRB3046 Proc. Pipe	UT, PT	2	705-110
B9.11	1E21-0013	12" Pipe to Elbow	UT, PT	NS	705-110
B9.11	1E21-0014	12" Elbow to Pipe	UT, PT	NS	705-109
B9.11	1E21-0015	12" Pipe to Elbow	UT, PT	NS	705-109
B9.11	1E21-0015A	12" Pipe to Pipe	UT, PT	NS	705-109
B9.11	1E21-0016	12" Elbow to Pipe	UT, PT	NS	705-109
B9.11	1E21-0017	12" Pipe to Elbow	UT, PT	NS	705-109
B9.11	1E21-0018	12" Elbow to Pipe	UT, PT	NS	705-109
B9.11	1E21-0019	12" Pipe to Elbow	UT, PT	NS	705-109
B9.11	1E21-0020	12" Elbow to Pipe	UT, PT	3	705-109
B9.11	1E21-0021	12" Pipe to Elbow	UT, PT	NS	705-109
B9.11	1E21-0022	12" Elbow to Pipe	UT, PT	3	705-109
B9.11	1E21-0023	12" P112 Proc. Pipe to Elbow	UT, PT	3	705-109
B9.11	1E21-0024	12" Pipe to P112 Proc. Pipe	UT, PT	1	705-108
B9.11	1E21-0025	12" Elbow to Pipe	UT, PT	NS	705-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E21-0026	12" Elbow to Elbow	UT, PT	NS	705-109
B9.11	1E21-0027	12" Pipe to Elbow	UT, PT	NS	705-108
B9.11	1E21-0028	12" Elbow to Pipe	UT, PT	1	705-108
B9.11	1E21-0029	12" Pipe to Elbow	UT, PT	NS	705-108
B9.11	1E21-0030	12" Valve F005 to Pipe	UT, PT	NS	705-108
B9.11	1E22-0001	Noz. to 12" Pipe	UT, PT	3	701-111
B9.11	1E22-0002	12" Pipe to Elbow	UT, PT	3	701-111
B9.11	1E22-0003	12" Elbow to Pipe	UT, PT	3	701-111
B9.11	1E22-0004	12" Pipe to Vlv F036	UT, PT	1	701-111
B9.11	1E22-0005	12" Vlv F036 to Pipe	UT, PT	3	701-111
B9.11	1E22-0006	12" Pipe to Elbow	UT, PT	1	701-111
B9.11	1E22-0007	12" Elbow to Pipe	UT, PT	2	701-111
B9.11	1E22-0008	12" Pipe to Vlv F005	UT, PT	2	701-111
B9.11	1E22-0009	12" Vlv F005 to Pipe	UT, PT	2	701-111
B9.11	1E22-0009A	12" Pipe to Pipe	UT, PT	NS	701-111
B9.11	1E22-0010	12" Elbow to Pipe (Bend)	UT, PT	3	701-111
B9.11	1E22-0011	12" Elbow to Pipe	UT, PT	2	701-111
B9.11	1E22-0012	12" Pipe to Elbow	UT, PT	2	701-110
B9.11	1E22-0013	12" Elbow to Pipe	UT, PT	2	701-110
B9.11	1E22-0014	12" Elbow to Pipe	UT, PT	NS	701-109
B9.11	1E22-0015	12" Pipe to Elbow	UT, PT	NS	701-109
B9.11	1E22-0016	12" Pipe to Elbow	UT, PT	3	701-109
B9.11	1E22-0017	12" Elbow to Pipe	UT, PT	3	701-109
B9.11	1E22-0017A	12" Pipe to Pipe	UT, PT	NS	701-109
B9.11	1E22-0018	12" Pipe to Elbow	UT, PT	NS	701-109
B9.11	1E22-0019	12" Elbow to Pipe	UT, PT	1	701-109
B9.11	1E22-0020	12" Pipe to Elbow	UT, PT	1	701-109
B9.11	1E22-0021	12" Elbow to P410 Proc. Pipe	UT, PT	1	701-109
B9.11	1E22-0022	12" P410 Proc. Pipe to Pipe	UT, PT	3	701-108
B9.11	1E22-0023	12" Pipe to Elbow	UT, PT	NS	701-108
B9.11	1E22-0024	12" Elbow to Pipe	UT, PT	NS	701-108
B9.11	1E22-0025	12" Pipe to Elbow	UT, PT	NS	701-108
B9.11	1E22-0026	12" Elbow to Pipe	UT, PT	NS	701-108
B9.11	1E22-0027	12" Pipe to Valve F004	UT, PT	NS	701-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E22-0135	12" Pipe to Pipe	UT, PT	NS	701-109
B9.40	1E32-0196	2" Coupling on Vlv F028B to Pipe	PT	3	341-102
B9.21	1E32-0197	2" Pipe to Tee	PT	NS	341-102
B9.21	1E32-0198	2" Tee to 2" x 1" Reducer	PT	NS	341-102
B9.21	1E32-0199	2" Tee to Pipe	PT	3	341-102
B9.21	1E32-0200	2" Pipe to 2" x 2 1/2" Reducer	PT	NS	341-102
B9.21	1E32-0201	2" x 2 1/2" Reducer to 2 1/2" Pipe	PT	NS	341-102
B9.32	1E32-0202	2 1/2" Pipe to 1 1/2" Branch Connection (Coupling)	PT	NS	341-102
B9.40	1E32-0203	1-1/2" Coupling to Pipe	PT	1	341-102
B9.40	1E32-0204	1 1/2" Pipe to Elbow	PT	NS	341-102
B9.40	1E32-0205	1 1/2" Elbow to Pipe	PT	NS	341-102
B9.40	1E32-0206	1-1/2" Pipe to Vlv F025E	PT	1	341-102
B9.40	1E32-0207	1 1/2" Valve F025E to Pipe	PT	NS	341-102
B9.40	1E32-0208	1 1/2" Pipe to Valve F026E	PT	NS	341-102
B9.21	1E32-0209	2 1/2" Pipe to Elbow	PT	NS	341-102
B9.21	1E32-0210	2 1/2" Elbow to Pipe	PT	NS	341-102
B9.21	1E32-0211	2 1/2" Pipe to Vlv F001E	PT	1	341-102
B9.40	1E32-0215	2" Coupling on Vlv F028A to Pipe	PT	1	341-104
B9.21	1E32-0216	2" Pipe to Tee	PT	NS	341-101
B9.21	1E32-0217	2" Tee to 2" x 1" Red.	PT	2	341-101
B9.21	1E32-0218	2" Tee to Pipe	PT	NS	341-101
B9.21	1E32-0219	2" Pipe to 2" x 2 1/2" Reducer	PT	NS	341-101
B9.21	1E32-0220	2" x 2 1/2" Reducer to Pipe	PT	NS	341-101
B9.21	1E32-0221	2-1/2" Pipe to Elbow	PT	1	341-101
B9.21	1E32-0222	2 1/2" Elbow to Pipe	PT	NS	341-101
B9.40	1E32-0223	2-1/2" Pipe to 1-1/2" Branch Conn.	PT	3	341-101
B9.21	1E32-0224	1 1/2" Coupling to Pipe	PT	NS	341-101
B9.21	1E32-0225	1 1/2" Pipe to Elbow	PT	NS	341-101
B9.21	1E32-0226	1 1/2" Elbow to Pipe	PT	NS	341-101
B9.40	1E32-0227	1-1/2" Pipe to Vlv F025A	PT	2	341-101
B9.40	1E32-0228	1 1/2" Valve F025A to Pipe	PT	NS	341-101
B9.40	1E32-0229	1 1/2" Pipe to Valve F026A	PT	NS	341-101
B9.21	1E32-0230	2 1/2" Pipe to Valve F001A	PT	NS	341-101
B9.21	1E32-0234	2" Coupling on Valve F028D to Pipe	PT	NS	341-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: P-J					
B9.21	1E32-0235	2" Pipe to Tee	PT	NS	341-104
B9.21	1E32-0236	2" Tee to 2" x 1" Reducer	PT	NS	341-104
B9.21	1E32-0237	2" Tee to Pipe	PT	NS	341-104
B9.21	1E32-0238	2" Pipe to 2" x 2-1/2" Red.	PT	2	341-104
B9.21	1E32-0239	2" x 2 1/2" Reducer to 2 1/2" Pipe	PT	NS	341-104
B9.21	1E32-0240	2 1/2" Pipe to Elbow	PT	NS	341-104
B9.21	1E32-0241	2-1/2" Elbow to Pipe	PT	3	341-104
B9.32	1E32-0242	2-1/2" Pipe to 1-1/2" Branch Conn.	PT	3	341-104
B9.40	1E32-0243	1 1/2" Coupling to Pipe	PT	NS	341-104
B9.40	1E32-0244	1 1/2" Pipe to Elbow	PT	NS	341-104
B9.40	1E32-0245	1 1/2" Elbow to Pipe	PT	NS	341-104
B9.40	1E32-0246	1 1/2" Pipe to Valve F025N	PT	NS	341-104
B9.40	1E32-0247	1 1/2" Valve F025N to Pipe	PT	NS	341-104
B9.40	1E32-0248	1-1/2" Pipe to Vlv F026N	PT	2	341-104
B9.21	1E32-0249	2 1/2" Pipe to Valve F001N	PT	NS	341-104
B9.21	1E32-0252	2" Coupling on Valve F028C to Pipe	PT	NS	341-103
B9.21	1E32-0253	2" Pipe to Tee	PT	NS	341-103
B9.21	1E32-0254	2" Tee to 2" x 1" Reducer	PT	NS	341-103
B9.21	1E32-0255	2" Tee to Pipe	PT	NS	341-103
B9.21	1E32-0256	2" Pipe to 2" x 2-1/2" Reduc.	PT	2	341-103
B9.21	1E32-0257	2" x 2 1/2" Reducer to 2 1/2" Pipe	PT	NS	341-103
B9.32	1E32-0258	2-1/2" Pipe to 1-1/2" Branch Conn.	PT	1	341-103
B9.40	1E32-0259	1 1/2" Coupling to Pipe	PT	NS	341-103
B9.40	1E32-0260	1-1/2" Pipe to Elbow	PT	2	341-103
B9.40	1E32-0261	1 1/2" Elbow to Pipe	PT	NS	341-103
B9.40	1E32-0262	1 1/2" Pipe to Valve F025J	PT	NS	341-103
B9.40	1E32-0263	1 1/2" Valve F025J to Pipe	PT	NS	341-103
B9.40	1E32-0264	1 1/2" Pipe to Valve F026J	PT	NS	341-103
B9.21	1E32-0265	2 1/2" Pipe to Elbow	PT	NS	341-103
B9.21	1E32-0266	2-1/2" Elbow to Pipe	PT	2	341-103
B9.21	1E32-0267	2 1/2" Pipe to Valve F001J	PT	NS	341-103
B9.11	1E51-0001	6" Flange to Pipe	UT, PT	1	631-108
B9.11	1E51-0002	6" Pipe to Vlv F066	UT, PT	1	631-108
B9.11	1E51-0003	6" Vlv F066 to Pipe	UT, PT	1	631-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E51-0004	6" Pipe to Elbow	UT, PT	1	631-108
B9.11	1E51-0005	6" Elbow to Pipe	UT, PT	1	631-108
B9.11	1E51-0006	6" Pipe to Elbow	UT, PT	2	631-108
B9.11	1E51-0007	6" Elbow to Pipe	UT, PT	2	631-108
B9.11	1E51-0008	6" Pipe to Flange	UT, PT	NS	631-108
B9.11	1E51-0009	6" Flange to Pipe	UT, PT	NS	631-108
B9.11	1E51-0010	6" Pipe to Flange	UT, PT	3	631-108
B9.11	1E51-0011	6" Elbow to Pipe	UT, PT	3	631-108
B9.11	1E51-0012	6" Pipe to Elbow	UT, PT	NS	631-107
B9.11	1E51-0013	6" Elbow to Pipe	UT, PT	NS	631-107
B9.11	1E51-0014	6" Pipe to Elbow	UT, PT	NS	631-107
B9.11	1E51-0015	6" Elbow to Pipe	UT, PT	NS	631-107
B9.11	1E51-0016	6" Pipe to Elbow	UT, PT	NS	631-107
B9.11	1E51-0017	6" Elbow to Pipe	UT, PT	2	631-107
B9.11	1E51-0018	6" Pipe to Elbow	UT, PT	2	631-107
B9.11	1E51-0019	6" Elbow to Pipe	UT, PT	2	631-107
B9.11	1E51-0019A	6" Pipe to Pipe	UT, PT	NS	631-107
B9.11	1E51-0020	6" Pipe to P123 Proc. Pipe	UT, PT	3	631-107
B9.11	1E51-0021	6" P123 Proc. Pipe to Vlv F065	UT, PT	3	631-106
B9.11	1E51-0023	6" Vlv F065 to Pipe	UT, PT	3	631-106
B9.11	1E51-0024	6" Pipe to Elbow	UT, PT	3	631-106
B9.11	1E51-0025	6" Elbow to Pipe	UT, PT	NS	631-106
B9.11	1E51-0026	6" Pipe to Elbow	UT, PT	NS	631-106
B9.11	1E51-0027	6" Elbow to Pipe	UT, PT	NS	631-106
B9.11	1E51-0028	6" Pipe to Elbow	UT, PT	NS	631-105
B9.11	1E51-0029	6" Elbow to Pipe	UT, PT	NS	631-105
B9.11	1E51-0029A	6" Pipe to Tee	UT, PT	NS	631-105
B9.11	1E51-0029B	6" Pipe to Tee	UT, PT	NS	631-105
B9.11	1E51-0030	6" Pipe to Valve F013	UT, PT	NS	631-105
B9.11	1E51-0120	10" Pipe to Vlv F06,	UT, PT	3	632-102
B9.11	1E51-0121	10" P422 Proc. Pipe to Pipe	UT, PT	2	632-102
B9.11	1E51-0122	10" Pipe to Penetration P422 Process Pipe	UT, PT	1	632-101
B9.11	1E51-0123	10" Valve F063 to Pipe	UT, PT	NS	632-101
B9.11	1E51-0124	10" Pipe to Valve F063	UT, PT	NS	632-101
B9.11	1E51-0125	10" Elbow to Pipe	UT, PT	NS	632-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1E51-0126	10" Pipe to Elbow	UT, PT	NS	632-101
B9.11	1E51-0127	10" Elbow to Pipe	UT, PT	NS	632-101
B9.11	1E51-0128	10" Pipe to Elbow	UT, PT	NS	632-101
B9.11	1E51-0128A	10" Pipe to Pipe	UT, PT	NS	632-101
B9.11	1E51-0129	26" x 10" Contour Nozzle to Pipe	UT, PT	NS	632-101
B9.21	1G33-0001	RPV Nozzle N15 to 2" Pipe	PT	NS	671-101
B9.21	1G33-0002	2" Pipe to Elbow	PT	NS	671-101
B9.21	1G33-0003	2" Elbow to Pipe	PT	NS	671-101
B9.21	1G33-0004	2" Pipe to Elbow	PT	NS	671-101
B9.40	1G33-0006	2" Pipe to Elbow	PT	NS	671-101
B9.40	1G33-0007	2" Elbow to Pipe	PT	NS	671-101
B9.40	1G33-0007A	2" Pipe to Tee	PT	NS	671-101
B9.40	1G33-0007B	2" Tee to 2" x 3/4" Reducer	PT	NS	671-101
B9.40	1G33-0007C	2" Tee to Pipe	PT	NS	671-101
B9.40	1G33-0008	2" Pipe to Elbow	PT	NS	671-101
B9.40	1G33-0009	2" Elbow to Pipe	PT	NS	671-101
B9.40	1G33-0010	2" Pipe to Elbow	PT	NS	671-101
B9.40	1G33-0011	2" Elbow to Pipe	PT	1	671-101
B9.40	1G33-0012	2" Pipe to Tee	PT	NS	671-101
B9.40	1G33-0013	2" Tee to 2" x 1 1/4" Reducing Insert	PT	NS	671-101
B9.40	1G33-0013A	2" x 1 1/4" Reducing Insert to Thermal Element (Dissimilar Metal)	PT	NS	671-101
B9.40	1G33-0014	2" Tee to Pipe	PT	NS	671-101
B9.40	1G33-0015	2" Pipe to Elbow	PT	NS	671-101
B9.40	1G33-0016	2" Elbow to Pipe	PT	NS	671-101
B9.40	1G33-0017	2" Pipe to Elbow	PT	2	671-102
B9.40	1G33-0018	2" Elbow to Pipe	PT	NS	671-102
B9.40	1G33-0019	2" Pipe to Tee	PT	1	671-101
B9.40	1G33-0020	2" Tee to 2" x 1 1/4" Reducing Insert	PT	NS	671-101
B9.40	1G33-0020A	2" x 1 1/4" Reducing Insert to Thermal Element	PT	NS	671-101
B9.40	1G33-0021	2" Tee to Pipe	PT	NS	671-101
B9.40	1G33-0022	2" Pipe to Elbow	PT	NS	671-102
B9.40	1G33-0023	2" Elbow to Pipe	PT	2	671-102
B9.40	1G33-0024	2" Pipe to Tee	PT	NS	671-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.40	1G33-0024A	2" Tee to Pipe	PT	NS	671-102
B9.40	1G33-0024B	2" Pipe to Valve P029	PT	NS	671-102
B9.40	1G33-0024C	2" Valve P029 to Pipe	PT	NS	671-102
B9.40	1G33-0024D	2" Pipe to Valve P030	PT	NS	671-102
B9.40	1G33-0024E	2" Tee to Pipe	PT	NS	671-102
B9.40	1G33-0024F	2" Pipe to Elbow	PT	NS	671-102
B9.40	1G33-0025	2" Elbow to Pipe	PT	2	671-102
B9.40	1G33-0025A	2" Pipe to Tee	PT	NS	671-102
B9.40	1G33-0025B	2" Tee to Reducer	PT	NS	671-102
B9.40	1G33-0025C	2" Tee to Pipe	PT	NS	671-102
B9.21	1G33-0026	2" Pipe to 3" x 2" Red.	PT	2	671-102
B9.21	1G33-0027	3" Pipe to 3" x 2" Reducer	PT	NS	671-102
B9.21	1G33-0028	3" x 3" x 1-1/2" Tee to Pipe	PT	NS	671-102
B9.21	1G33-0029	3" Pipe to Tee	PT	NS	671-102
B9.21	1G33-0030	3" Elbow to Pipe	PT	NS	671-102
B9.21	1G33-0031	3" Pipe to Elbow	PT	NS	671-102
B9.21	1G33-0032	3" Valve F101 to Pipe	PT	NS	671-102
B9.21	1G33-0033	3" Pipe to Vlv F101	PT	3	671-102
B9.21	1G33-0034	3" x 3" x 1-1/2" Tee to Pipe	PT	NS	671-102
B9.40	1G33-0035	1-1/2" Pipe to 3" x 1-1/2" Tee	PT	3	671-102
B9.40	1G33-0036	1-1/2" Elbow to Pipe	PT	3	671-102
B9.40	1G33-0037	1-1/2" Pipe to Elbow	PT	3	671-102
B9.40	1G33-0038	1-1/2" Vlv F103 to Pipe	PT	3	671-102
B9.40	1G33-0039	1-1/2" Pipe to Vlv F103	PT	3	671-102
B9.40	1G33-0040	3" x 1-1/2" Tee to Pipe	PT	3	671-102
B9.21	1G33-0041	3" Pipe to Tee	PT	NS	671-102
B9.21	1G33-0042	3" Pipe to Elbow	PT	2	671-102
B9.21	1G33-0043	3" Pipe to Elbow	PT	1	671-102
B9.21	1G33-0044	3" Elbow to Pipe	PT	NS	671-102
B9.21	1G33-0045	3" Pipe to Elbow	PT	NS	671-102
B9.21	1G33-0046	3" Elbow to Pipe	PT	NS	671-102
B9.21	1G33-0047	3" Pipe to Elbow	PT	NS	671-102
B9.21	1G33-0048	3" Pipe to 6" x 3" Red.	PT	2	671-103
B9.11	1G33-0049	6" x 3" Reducer to 6" Pipe	UT, PT	2	671-103
B9.11	1G33-0050	6" x 6" Tee to Pipe	UT, PT	NS	671-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1G33-0051	6" x 6" Tee to Pipe	UT, PT	NS	671-103
B9.11	1G33-0052	6" Pipe to Flow Element FE N035	UT, PT	NS	671-103
B9.11	1G33-0053	6" Flow Element FE N035 to Pipe	UT, PT	NS	671-103
B9.11	1G33-0054	6" Pipe to Elbow	UT, PT	2	671-103
B9.11	1G33-0055	6" Elbow to Pipe	UT, PT	2	671-103
B9.11	1G33-0056	6" Pipe to Elbow	UT, PT	2	671-103
B9.11	1G33-0057	6" Elbow to Pipe	UT, PT	2	671-103
B9.11	1G33-0058	6" Pipe to Elbow	UT, PT	2	671-103
B9.11	1G33-0059	6" Elbow to Pipe	UT, PT	2	671-103
B9.11	1G33-0060	6" Pipe to Vlv F001	UT, PT	2	671-103
B9.11	1G33-0061	6" Vlv F001 to Pipe	UT, PT	1	671-103
B9.11	1G33-0062	6" Pipe to P131 Proc. Pipe	UT, PT	1	671-103
B9.11	1G33-0063	6" P131 Proc. Pipe to Pipe	UT, PT	3	671-104
B9.11	1G33-0064	6" Pipe to Vlv F004	UT, PT	3	671-104
B9.11	1G33-0065	6" Pipe to Tee	UT, PT	NS	671-103
B9.11	1G33-0066	4" x 6" Reducer to Pipe	UT, PT	NS	671-103
B9.11	1G33-0067	4" Pipe to Reducer	UT, PT	NS	671-103
B9.11	1G33-0067A	4" Pipe to Pipe	UT, PT	NS	671-103
B9.11	1G33-0068	4" Valve F102 to Pipe	UT, PT	NS	671-103
B9.11	1G33-0069	4" Elbow to Valve F102	UT, PT	NS	671-103
B9.11	1G33-0070	4" Pipe to Elbow	UT, PT	NS	671-103
B9.11	1G33-0071	4" Elbow to Pipe	UT, PT	NS	671-103
B9.11	1G33-0072	4" Pipe to Elbow	UT, PT	1	671-103
B9.11	1G33-0073	4" Elbow to Pipe	UT, PT	3	671-105
B9.11	1G33-0074	4" Pipe to Elbow	UT, PT	3	671-105
B9.11	1G33-0075	4" x 4" Tee to Pipe	UT, PT	NS	671-105
B9.11	1G33-0076	4" x 4" Tee to Pipe	UT, PT	NS	671-105
B9.11	1G33-0077	4" Pipe to Elbow	UT, PT	NS	671-105
B9.11	1G33-0078	4" Elbow to Pipe	UT, PT	NS	671-105
B9.11	1G33-0079	4" Pipe to Elbow	UT, PT	NS	671-105
B9.11	1G33-0080	4" Elbow to Pipe	UT, PT	1	671-105
B9.11	1G33-0081	4" Pipe to Vlv F106	UT, PT	1	671-105
B9.11	1G33-0082	4" Vlv F106 to Pipe	UT, PT	1	671-105
B9.11	1G33-0083	4" Pipe to Elbow	UT, PT	3	671-105
B9.11	1G33-0084	4" Elbow to Pipe	UT, PT	3	671-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.11	1G33-0085	4" Elbow to Pipe	UT, PT	2	671-105
B9.11	1G33-0086	4" Pipe to Elbow	UT, PT	2	671-105
B9.11	1G33-0088	4" Pipe to Tee	UT, PT	NS	671-105
B9.11	1G33-0089	4" Elbow to Pipe	UT, PT	3	671-106
B9.11	1G33-0090	4" Pipe to Elbow	UT, PT	3	671-106
B9.11	1G33-0091	4" Pipe to Pipe	UT, PT	NS	671-106
B9.11	1G33-0092	4" Elbow to Pipe	UT, PT	NS	671-106
B9.11	1G33-0093	4" Pipe to Elbow	UT, PT	NS	671-106
B9.11	1G33-0094	4" Elbow to Pipe	UT, PT	NS	671-106
B9.11	1G33-0095	4" Pipe to Elbow	UT, PT	NS	671-106
B9.11	1G33-0096	4" Elbow to Pipe	UT, PT	NS	671-106
B9.11	1G33-0097	4" Pipe to Elbow	UT, PT	NS	671-106
B9.11	1G33-0098	4" Elbow to Pipe	UT, PT	NS	671-106
B9.11	1G33-0099	4" Pipe to Elbow	UT, PT	NS	671-106
B9.11	1G33-0100	4" Elbow to Pipe	UT, PT	NS	671-107
B9.11	1G33-0101	4" Pipe to Elbow	UT, PT	NS	671-107
B9.11	1G33-0102	4" Elbow to Pipe	UT, PT	NS	671-107
B9.11	1G33-0103	4" Pipe to Elbow	UT, PT	NS	671-107
B9.11	1G33-0104	4" Elbow to Pipe	UT, PT	2	671-107
B9.11	1G33-0105	4" Pipe to Elbow	UT, PT	2	671-107
B9.11	1G33-0106	4" Pipe to Pipe	UT, PT	NS	671-107
B9.11	1G33-0107	4" Vlv F100 to Pipe	UT, PT	2	671-107
B9.11	1G33-0108	4" Pipe to Vlv F100	UT, PT	2	671-107
B9.11	1G33-0109	4" Elbow to Pipe	UT, PT	3	671-107
B9.11	1G33-0110	4" Pipe to Elbow	UT, PT	3	671-107
B9.11	1G33-0111	4" Elbow to Pipe	UT, PT	2	671-107
B9.11	1G33-0112	4" Pipe to Elbow	UT, PT	1	671-107
B9.32	1G33-0144	4" Pipe to Half Coupling Branch Conn.	PT	1	671-107
B9.40	1G33-0145	2" Half Coupling to Pipe	PT	NS	671-107
B9.40	1G33-0146	2" Pipe to Elbow	PT	2	671-107
B9.40	1G33-0147	2" Elbow to Pipe	PT	NS	671-107
B9.40	1G33-0148	2" Pipe to Valve F505B	PT	NS	671-107
B9.40	1G33-0149	2" Valve F505A to Pipe	PT	NS	671-107
B9.40	1G33-0150	2" Pipe to Valve F506A	PT	NS	671-107
B9.32	1G33-0151	2" Half Coupling Branch Conn.	PT	3	671-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.40	1G33-0152	2" Half Coupling to Pipe	PT	3	671-105
B9.40	1G33-0153	2" Pipe to Elbow	PT	NS	671-105
B9.40	1G33-0154	2" Elbow to Pipe	PT	NS	671-105
B9.40	1G33-0155	2" Pipe to Valve F505B	PT	NS	671-105
B9.40	1G33-0156	2" Vlv F505 to Pipe	PT	2	671-105
B9.40	1G33-0157	2" Pipe to Valve F506B	PT	NS	671-105
B9.40	1N22-0026	2" Coupling on Vlv F022C to Pipe	PT	1	121-102
B9.40	1N22-0027	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0028	2" Elbow to Pipe	PT	NS	121-102
B9.40	1N22-0029	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0030	2" Elbow to Pipe	PT	1	121-102
B9.40	1N22-0030A	2" Pipe to Coupling	PT	NS	121-102
B9.40	1N22-0030B	2" Coupling to Pipe	PT	NS	121-102
B9.40	1N22-0031	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0031A	2" Tee to Pipe	PT	NS	121-102
B9.40	1N22-0031B	2" Pipe to Tee	PT	NS	121-102
B9.40	1N22-0031C	2" Pipe to Coupling	PT	NS	121-102
B9.40	1N22-0032	2" Elbow to Pipe	PT	NS	121-102
B9.40	1N22-0033	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0034	2" Elbow to Pipe	PT	NS	121-102
B9.40	1N22-0035	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0036	2" Elbow to Pipe	PT	NS	121-102
B9.21	1N22-0037	2" Pipe to 3" x 3" x 2" Tee	PT	NS	121-102
B9.40	1N22-0059	2" Coupling on Vlv F022D to Pipe	PT	1	121-101
B9.40	1N22-0060	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0061	2" Elbow to Pipe	PT	3	121-101
B9.40	1N22-0062	2" Pipe to Elbow	PT	2	121-101
B9.40	1N22-0063	2" Elbow to Pipe	PT	NS	121-101
B9.40	1N22-0064	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0065	2" Elbow to Pipe	PT	NS	121-101
B9.21	1N22-0066	2" Pipe to 2" x 3" Reducer	PT	NS	121-101
B9.21	1N22-0067	2" x 3" Red. to 3" Pipe	PT	2	121-101
B9.21	1N22-0066	3" Pipe to 3" x 3" x 2" Tee	PT	NS	121-101
B9.21	1N22-0069	3" x 3" x 2" Tee to 3" Pipe	PT	NS	121-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
P9.21	1N22-0070	3" Pipe to 3" x 3" x 2" Tee	PT	NS	121-103
B9.21	1N22-0071	3" x 3" x 2" Tee to 3" Pipe	PT	NS	121-103
B9.21	1N22-0072	3" Pipe to 3" x 3" x 2" Tee	PT	NS	121-103
B9.21	1N22-0073	3" x 3" x 2" Tee to 3" Pipe	PT	NS	121-103
B9.21	1N22-0074	3" Pipe to Valve F016	PT	NS	121-103
B9.21	1N22-0075	3" Vlv F016 to P423	PT	3	121-103
B9.21	1N22-0076	P423 to 3" Pipe	PT	2	121-103
B9.21	1N22-0077	3" Pipe to Valve F019	PT	NS	121-103
B9.40	1N22-0103	2" Coupling on Vlv F022B to Pipe	PT	3	121-101
B9.40	1N22-0104	2" Pipe to Elbow	PT	3	121-101
B9.40	1N22-0105	2" Elbow to Pipe		NS	121-101
B9.40	1K.2-0106	2" Pipe to Elbow	PT	1	121-101
B9.40	1N22-0107	2" Elbow to Pipe	PT	3	121-101
B9.40	1N22-0108	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0108A	2" Elbow to Pipe	PT	NS	121-101
B9.40	1N22-0108B	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0109	2" Elbow to Pipe	PT	NS	121-101
B9.40	1N22-0109A	2" Pipe to Coupling	PT	NS	121-101
B9.40	1N22-0109B	2" Coupling to Pipe	PT	NS	121-101
B9.40	1N22-0110	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0111	2" Elbow to Pipe	PT	NS	121-101
B9.40	1N22-0112	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0113	2" Elbow to Pipe	PT	NS	121-101
B9.40	1N22-0114	2" Pipe to Elbow	PT	NS	121-101
B9.40	1N22-0115	2" Elbow to Pipe	PT	NS	121-101
B9.21	1N22-0116	2" Pipe to 3" x 3" x 2" Tee	PT	NS	121-101
B9.40	1N22-0136	2" Coupling on Vlv F022A to Pipe	PT	3	121-102
B9.40	1N22-0137	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0138	2" Elbow to Pipe	PT	NS	121-102
B9.40	1N22-0139	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0140	2" Elbow to Pipe	PT	NS	121-102
B9.40	1N22-0141	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0142	2" Elbow to Pipe	PT	2	121-102
B9.40	1N22-0143	2" Pipe to Elbow	PT	NS	121-102
B9.40	1N22-0144	2" Elbow to Pipe	PT	NS	121-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.40	1N22-0145	2" Pipe to Elbow	PT	3	121-102
B9.40	1N22-0146	2" Elbow to Pipe	PT	NS	121-102
B9.21	1N22-0147	2" Pipe to 3" x 3" x 2" Tee	PT	1	121-102
B9.11	1N27-0001	20" Pipe to Cap	UT, PT	NS	082-102
B9.11	1N27-0002	20" Pipe to Pipe	UT, PT	NS	082-102
B9.11	1N27-0003	20" Elbow to Pipe	UT, PT	NS	082-102
B9.11	1N27-0004	20" Pipe to Elbow	UT, PT	NS	082-102
B9.11	1N27-0005	20" Valve F560A to Pipe	UT, PT	NS	082-102
B9.11	1N27-0006	20" Pipe to Valve F560A	UT, PT	NS	082-102
B9.11	1N27-0007	20" Valve F559A to Pipe	UT, PT	NS	082-102
B9.11	1N27-0008	20" Penetration P121 Process Pipe to Valve F559A	UT, PT	1	082-102
B9.11	1N27-0009	20" Valve F032A to Penetration P121 Process Pipe	UT, PT	1	082-101
B9.11	1N27-0015	20" Pipe to Cap	UT, PT	NS	082-105
B9.11	1N27-0016	12" Pipe to Pipe	UT, PT	NS	082-105
B9.11	1N27-0017	20" Elbow to Pipe	UT, PT	NS	082-105
B9.11	1N27-0018	20" Pipe to Elbow	UT, PT	NS	082-105
B9.11	1N27-0019	20" Valve F560B to Pipe	UT, PT	NS	082-105
B9.11	1N27-0020	20" Pipe to Valve F560B	UT, PT	NS	082-105
B9.11	1N27-0021	20" Valve F559B to Pipe	UT, PT	NS	082-105
B9.11	1N27-0022	20" Penetration P414 Process Pipe to Valve F559B	UT, PT	1	082-105
B9.11	1N27-0023	20" Valve F032B to Penetration P414 Process Pipe	UT, PT	2	082-104
B9.31	1N27-0029	20" Pipe to 14" Sweepolet	UT, PT	2	082-102
B9.11	1N27-0030	14" Sweepolet to 14" x 12" Red.	UT, PT	2	082-102
B9.11	1N27-0031	14" x 12" Red. to Pipe Red.	UT, PT	2	082-102
B9.11	1N27-0031A	12" Pipe to Pipe	UT, PT	NS	082-102
B9.11	1N27-0032	12" Pipe to Elbow	UT, PT	3	082-103
B9.11	1N27-0033	12" Elbow to Pipe	UT, PT	3	082-103
B9.11	1N27-0034	12" Pipe to Safe-end	UT, PT	3	082-103
B9.31	1N27-0035	20" Pipe to 14" Sweepolet	UT, PT	1	082-102
B9.11	1N27-0036	14" Sweepolet to 14" x 12" Red.	UT, PT	1	082-102
B9.11	1N27-0037	14" x 12" Red. to Pipe	UT, PT	1	082-102
B9.11	1N27-0038	12" Pipe to Elbow	UT, PT	3	082-103
B9.11	1N27-0039	12" Elbow to Pipe	UT, PT	3	082-103
B9.11	1N27-0040	12" Pipe to Safe-end	UT, PT	3	082-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-J					
B9.31	1N27-0041	20" Pipe to 14" Sweepolet	UT, PT	2	082-102
B9.11	1N27-0042	14" Sweepolet to 14" Pipe	UT, PT	NS	082-102
B9.11	1N27-0043	12" Pipe to Elbow	UT, PT	2	082-102
B9.11	1N27-0044	14" Elbow to Pipe	UT, PT	2	082-102
B9.11	1N27-0045	14" Pipe to 14" x 12" Elbow	UT, PT	NS	082-102
B9.11	1N27-0046	14" x 12" Elbow to 12" Pipe	UT, PT	NS	082-103
B9.11	1N27-0046A	12" Pipe to Pipe	UT, PT	NS	082-103
B9.11	1N27-0047	12" Pipe to Elbow	UT, PT	1	082-103
B9.11	1N27-0048	12" Elbow to Pipe	UT, PT	1	082-103
B9.11	1N27-0049	12" Pipe to Safe-end	UT, PT	3	082-103
B9.31	1N27-0050	20" Pipe to 14" Sweepolet	UT, PT	2	082-105
B9.11	1N27-0051	14" Sweepolet to 14" x 12" Red.	UT, PT	2	082-105
B9.11	1N27-0052	14" x 12" Red. to Pipe	UT, PT	2	082-105
B9.11	1N27-0053	12" Pipe to Elbow	UT, PT	3	082-106
B9.11	1N27-0054	12" Elbow to Pipe	UT, PT	3	082-106
B9.11	1N27-0055	12" Pipe to Safe-end	UT, PT	3	082-106
B9.31	1N27-0056	20" Pipe to 14" Sweepolet	UT, PT	1	082-105
B9.11	1N27-0057	14" Sweepolet to 14" x 12" Red.	UT, PT	1	082-105
B9.11	1N27-0058	14" x 12" Red. to Pipe	UT, PT	1	082-105
B9.11	1N27-0058A	12" Pipe to Pipe	UT, PT	NS	082-105
B9.11	1N27-0059	12" Pipe to Elbow	UT, PT	3	082-106
B9.11	1N27-0060	12" Elbow to Pipe	UT, PT	3	082-106
B9.11	1N27-0061	12" Pipe to Safe-end	UT, PT	3	082-106
B9.31	1N27-0062	20" Pipe to 14" Sweepolet	UT, PT	2	082-105
B9.11	1N27-0063	14" Sweepolet to Pipe	UT, PT	NS	082-105
B9.11	1N27-0064	12" Pipe to Elbow	UT, PT	2	082-105
B9.11	1N27-0065	12" Elbow to Pipe	UT, PT	2	082-105
B9.11	1N27-0066	14" Pipe to 14" x 12" Elbow	UT, PT	NS	082-105
B9.11	1N27-0067	14" x 12" Reducing Elbow to Pipe	UT, PT	NS	082-106
B9.11	1N27-0067A	12" Pipe to Pipe	UT, PT	NS	082-106
B9.11	1N27-0068	12" Pipe to Elbow	UT, PT	1	082-106
B9.11	1N27-0069	12" Elbow to Pipe	UT, PT	1	082-106
B9.11	1N27-0070	12" Pipe to Safe-end	UT, PT	3	082-106
B9.22		Does Not Exist			

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-K-1					
B10.10	1B21-G101A-WA	Integral Welded Attachment for Rigid Guide	VT-1*	2	605-101
B10.10	1B21-G101B-WA	Integral Welded Attachment for Rigid Guide	VT-1*	1	605-102
B10.10	1B21-G101C-WA	Integral Welded Attachment for Rigid Guide	VT-1*	3	605-103
B10.10	1B21-G101D-WA	Integral Welded Attachment for Rigid Guide	VT-1*	3	605-104
B10.10	1B21-P122-WA	P122 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	605-109
B10.10	1B21-P124-WA	P124 Flued Head Fitting to Process Pipe Attachment Weld	MT	3	605-107
B10.10	1B21-P415-WA	P415 Flued Head Fitting to Process Pipe Attachment Weld	MT	1	605-110
B10.10	1B21-P416-WA	P416 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	605-108
B10.10	1B33-H305A-WA	Integral Welded Attachment for Variable Spring	PT	1	602-102
B10.10	1B33-H305B-WA	Integral Welded Attachment for Variable Spring	PT	2	602-104
B10.10	1B33-H306A-WA	Integral Welded Attachment for Variable Spring	PT	1	602-102
B10.10	1B33-H306B-WA	Integral Welded Attachment for Variable Spring	PT	2	602-104
B10.10	1B33-S351A-WA	Integral Welded Attachment for Variable Spring	PT	3	602-101
B10.10	1B33-S351B-WA	Integral Welded Attachment for Hydraulic Snubber	PT	2	602-103
B10.10	1B33-S352A-WA	Integral Welded Attachment for Hydraulic Snubber	PT	3	602-101
B10.10	1B33-S352B-WA	Integral Welded Attachment for Hydraulic Snubber	PT	2	602-103
B10.10	1B33-S353A-WA	Integral Welded Attachment for Hydraulic Snubber	PT	3	602-101
B10.10	1B33-S353B-WA	Integral Welded Attachment for Hydraulic Snubber	PT	2	602-103
B10.10	1B33-S354A-WA	Integral Welded Attachment for Hydraulic Snubber	PT	3	602-101
B10.10	1B33-S354B-WA	Integral Welded Attachment for Hydraulic Snubber	PT	2	602-103
B10.20	1B33-S372A-WA	Pump Welded Attachment	PT	1	602-102
B10.20	1B33-S372B-WA	Pump Welded Attachment	PT	2	602-104
B10.20	1B33-S373A-WA	Pump Welded Attachment	PT	1	602-102
B10.20	1B33-S373B-WA	Pump Welded Attachment	PT	2	602-104
B10.20	1B33-S374A-WA	Pump Welded Attachment	PT	2	602-102
B10.20	1B33-S374B-WA	Pump Welded Attachment	PT	3	602-104
B10.20	1B33-S375A-WA	Pump Welded Attachment	PT	2	602-102
B10.20	1B33-S375B-WA	Pump Welded Attachment	PT	3	602-104
B10.10	1C41-PRB4031-WA	PRB4031 Anchor Attachment to Process Pipe	PT	3	691-102
B10.10	1E12-H0100-WA	Integral Welded Attachment for Spring Hanger	MT	1	642-117
B10.10	1E12-P411-WA	P411 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	642-135
B10.10	1E12-P421-WA	P421 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	642-101

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI SS-305-</u>
EXAMINATION CATEGORY: B-K-1					
B10.10	1E12-7B2035-WA	PRB2035 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	642-143
B10.10	1E12-PRB2036-WA	PRB2036 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	642-139
B10.10	1E12-PRB2044-WA	PRB2044 Flued Head Fitting to Process Pipe Attachment Weld	MT	1	642-126
B10.10	1E21-P112-WA	P112 Flued Head Fitting to Process Pipe Attachment Weld	MT	3	705-109
B10.10	1E21-PRB3046-WA	PRB3046 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	705-110
B10.10	1E22-P410-WA	P410 Flued Head Fitting to Process Pipe Attachment Weld	MT	1	701-109
B10.10	1E22-PRB3052-WA	PRB3052 Flued Head Fitting to Process Pipe Attachment Weld	MT	2	701-110
B10.10	1E51-H0102-WA	Integral Welded Attachment for Rigid Support	MT	1	632-101
B10.10	1E51-H0150-WA	Integral Welded Attachment for Variable Spring	MT	2	631-108
B10.10	1E51-P123-WA	P123 Flued Head Fitting to Process Pipe Attachment Weld	MT	3	631-106
B10.10	1E51-P422-WA	P422 Flued Head Fitting to Process Pipe Attachment	MT	2	632-102
B10.10	1G33-P131-WA	P131 Flued Head Fitting to Process Pipe Attachment	MT	3	671-104
B10.10	1N22-P423-WA	P423 Flued Head Fitting to Process Pipe Attachment Weld	MT	3	121-103
B10.10	1N27-H0010-WA	Integral Welded Attachment for Variable Spring	MT	3	082-103
B10.10	1N27-H0022-WA	Integral Welded Attachment for Variable Spring	MT	2	082-106
B10.10	1N27-H0029-WA	Integral Welded Attachment for Rigid Guide	MT	1	082-102
B10.10	1N27-H0030-WA	Integral Welded Attachment for Rigid Guide	MT	2	082-105
B10.10	1N27-P121-WA	P121 Flued Head Fitting to Process Pipe Attachment Weld	MT	:	082-101
B10.10	1N27-P414-WA	P414 Flued Head Fitting to Process Pipe Attachment Weld	MT	3	082-104
B10.30		Does Not Exist			

\*VT-1 scheduled in lieu of MT (see relief IR-025)

EXAMINATION CATEGORY: B-L-1

B12.10 Not Applicable to PNFP

EXAMINATION CATEGORY: B-L-2

B12.20	1B33-C001A-IS	Pump C001A Internal Surface	VT-3	NS	602-102
B12.20	1B33-C001B-IS	Pump C001B Internal Surface	VT-3	1	602-104

EXAMINATION CATEGORY: B-M-1

B12.30	1G33-F0101-SEAM	3" Gate Valve, Body Weld (Grouping Number X)	PT	3	671-102
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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MAINT. NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-M-1					
B12.40	1F12-P0019-SEAM	6" Check Valve, Body Weld (Grouping Number XIV)	UT	3	642-122
B12.40	1E12-P0039A-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	NS	642-125
B12.40	1E12-P0039B-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	NS	642-141
B12.40	1E12-P0039C-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	NS	642-145
B12.40	1E12-P0042A-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	3	642-126
B12.40	1E12-P0042B-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	NS	642-137
B12.40	1E12-P0042C-SEAM	12" Gate Valve, Body Weld (Grouping Number XII)	UT	NS	642-134
B12.40	1E21-P0005-SEAM	12" Gate Valve, Body Weld (Grouping Number XVI)	UT	3	705-108
B12.40	1E21-P0007-SEAM	12" Gate Valve, Body Weld (Grouping Number XVI)	UT	NS	705-111
B12.40	1E22-P0036-SEAM	12" Gate Valve, Body Weld (Grouping Number XVIII)	UT	3	701-111
B12.40	1E22-P0013-SEAM	6" Gate Valve, Body Weld (Grouping Number XXI)	UT	3	631-105
B12.40	1E51-P0063-SEAM	10" Gate Valve, Body Weld (Grouping Number XXII)	UT	NS	632-101
B12.40	1E51-P0064-SEAM	10" Gate Valve, Body Weld (Grouping Number XXII)	UT	3	632-102
B12.40	1G33-P0001-SEAM	6" Gate Valve, Body Weld (Grouping Number VIII)	UT	NS	671-103
B12.40	1G33-P0004-SEAM	6" Gate Valve, Body Weld (Grouping Number VIII)	UT	3	671-104
B12.40	1G33-P0100-SEAM	4" Gate Valve, Body Weld (Grouping Number IX)	UT	3	671-107
B12.40	1G33-P0106-SEAM	4" Gate Valve, Body Weld (Grouping Number IX)	UT	NS	671-105

EXAMINATION CATEGORY: B-M-2

B12.50	1B21-P0022A-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-101
B12.50	1B21-P0022B-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-102
B12.50	1B21-P0022C-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-103
B12.50	1B21-P0022D-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-104
B12.50	1B21-P0028A-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	1	605-107
B12.50	1B21-P0028B-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-108
B12.50	1B21-P0028C-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-109
B12.50	1B21-P0028D-IS	26" Globe, MSIV, Internal Surface (Grouping Number II)	VT-3	NS	605-110
B12.50	1B21-P0032A-IS	20" Check Valve, Internal Surface (Grouping Number III)	VT-3	3	082-101
B12.50	1B21-P0032B-IS	20" Check Valve, Internal Surface (Grouping Number III)	VT-3	NS	082-104
B12.50	1B21-P0041A-IS	SRV, Internal Surface (Grouping Number I)	VT-3	1,2,3	605-101
B12.50	1B21-P0041B-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-P0041C-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B21-P0041D-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-104
B12.50	1B21-P0041E-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-M-2					
B12.50	1B21-F0041F-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-F0041G-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B21-F0041K-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-F0047B-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-F0047C-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B21-F0047D-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-104
B12.50	1B21-F0047F-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-F0047G-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B21-F0047H-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-104
B12.50	1B21-F0051A-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-101
B12.50	1B21-F0051B-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-102
B12.50	1B21-F0051C-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B21-F0051D-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-104
B12.50	1B21-F0051G-IS	SRV, Internal Surface (Grouping Number I)	VT-3	NS	605-103
B12.50	1B33-F0023A-IS	22" Gate Valve, Internal Surface (Grouping Number V)	VT-3	NS	602-102
B12.50	1B33-F0023B-IS	22" Gate Valve, Internal Surface (Grouping Number V)	VT-3	3	602-104
B12.50	1B33-F0060A-IS	24" Ball Valve, Internal Surface (Grouping Number VI)	VT-3	NS	602-102
B12.50	1B33-F0060B-IS	24" Ball Valve, Internal Surface (Grouping Number VI)	VT-3	1	602-104
B12.50	1B33-F0067A-IS	24" Gate Valve, Internal Surface (Grouping Number VII)	VT-3	NS	602-102
B12.50	1B33-F0067B-IS	24" Gate Valve, Internal Surface (Grouping Number VII)	VT-3	3	602-104
B12.50	1E12-F0008-IS	20" Gate Valve, Internal Surface (Grouping Number XI)	VT-3	3	642-101
B12.50	1E12-F0009-IS	20" Gate Valve, Internal Surface (Grouping Number XI)	VT-3	NS	642-117
B12.50	1E12-F0010-IS	20" Gate Valve, Internal Surface (Grouping Number XI)	VT-3	NS	642-117
B12.50	1E12-F0019-IS	6" Check Valve, Internal Surface (Grouping Number XIV)	VT-3	3	642-122
B12.50	1E12-F0023-IS	6" Globe Valve, Internal Surface (Grouping Number XV)	VT-3	3	642-122
B12.50	1E12-F0039A-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	NS	642-125
B12.50	1E12-F0039B-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	NS	642-141
B12.50	1E12-F0039C-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	NS	642-145
B12.50	1E12-F0041A-IS	12" Check Valve, Internal Surface (Grouping Number XIII)	VT-3	3	642-125
B12.50	1E12-F0041B-IS	12" Check Valve, Internal Surface (Grouping Number XIII)	VT-3	NS	642-141
B12.50	1E12-F0041C-IS	12" Check Valve, Internal Surface (Grouping Number XIII)	VT-3	NS	642-145
B12.50	1E12-F0042A-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	3	642-126
B12.50	1E12-F0042B-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	NS	642-137
B12.50	1E12-F0042C-IS	12" Gate Valve, Internal Surface (Grouping Number XII)	VT-3	NS	642-134
B12.50	1E21-F0005-IS	12" Gate Valve, Internal Surface (Grouping Number XVI)	VT-3	3	705-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-M-2					
B12.50	1E21-F0006-IS	12" Check Valve, Internal Surface (Grouping Number XVII)	VT-3	3	705-111
B12.50	1E21-F0007-IS	12" Gate Valve, Internal Surface (Grouping Number XVI)	VT-3	NS	705-111
B12.50	1E22-F0004-IS	12" Gate Valve, Internal Surface (Grouping Number XIX)	VT-3	3	701-108
B12.50	1E22-F0005-IS	12" Check Valve, Internal Surface (Grouping Number XX)	VT-3	3	701-111
B12.50	1E22-F0036-IS	12" Gate Valve, Internal Surface (Grouping Number XVIII)	VT-3	3	701-111
B12.50	1E51-F0013-IS	6" Gate Valve, Internal Surface (Grouping Number XXI)	VT-3	3	631-105
B12.50	1E51-F0063-IS	10" Gate Valve, Internal Surface (Grouping Number XXII)	VT-3	NS	632-102
B12.50	1E51-F0064-IS	10" Gate Valve, Internal Surface (Grouping Number XXII)	VT-3	3	632-102
B12.50	1E51-F0065-IS	6" Check Valve, Internal Surface (Grouping Number XXIII)	VT-3	3	631-106
B12.50	1E51-F0066-IS	6" Check Valve, Internal Surface (Grouping Number XXIII)	VT-3	NS	631-108
B12.50	1G33-F0001-IS	6" Gate Valve, Internal Surface (Grouping Number VIII)	VT-3	NS	671-103
B12.50	1G33-F0004-IS	6" Gate Valve, Internal Surface (Grouping Number VIII)	VT-3	3	671-104
B12.50	1G33-F0100-IS	4" Gate Valve, Internal Surface (Grouping Number IX)	VT-3	NS	671-107
B12.50	1G33-F0106-IS	4" Gate Valve, Internal Surface (Grouping Number IX)	VT-3	NS	671-105
B12.50	1N27-F0559A-IS	20" Check Valve, Internal Surface (Grouping Number III)	VT-3	NS	082-102
B12.50	1N27-F0559B-IS	20" Check Valve, Internal Surface (Grouping Number III)	VT-3	NS	082-105
B12.50	1N27-F0560A-IS	20" Gate Valve, Internal Surface (Grouping Number IV)	VT-3	3	082-102
B12.50	1N27-F0560B-IS	20" Gate Valve, Internal Surface (Grouping Number IV)	VT-3	NS	082-105

EXAMINATION CATEGORY: B-N-1

B13.10	1B13-Interior	Reactor Vessel Interior Region	VT-3	1,2,3	006-101
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EXAMINATION CATEGORY: B-N-2

B13.20	1B13-RBAVW-P01	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P02	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P03	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P04	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P05	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P06	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P07	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P08	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P09	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-N-2					
B13.20	1B13-RBAVW-P10	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P11	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P12	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P13	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P14	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P15	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P16	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P17	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P18	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P19	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-RBAVW-P20	Jet Pump Riser Brace Arm/Vessel Attachment Welds	VT-1	3	006-101
B13.20	1B13-SSH-WA-1	RPV Sample Holder, Welded Attachment	VT-1	3	006-101
B13.20	1B13-SSH-WA-2	RPV Sample Holder, Welded Attachment	VT-1	3	006-101
B13.20	1B13-SSH-WA-3	RPV Sample Holder, Welded Attachment	VT-1	3	006-101
B13.30	1B13-CSS-WA	RPV Core Spray Sparger Bracket/Vessel Welded Att.	VT-3	3	006-101
B13.30	1B13-FS-WA	RPV Feedwater Sparger Bracket/Vessel Welded Att.	VT-3	3	006-101
B13.30	1B13-GRSB-WA	RPV Guide Rod Support Bracket/Vessel Welded Att.	VT-3	3	006-101
B13.30	1B13-SDSB-WA	RPV Steam Dryer Support Bracket/Vessel Welded Att.	VT-3	1	006-101
B13.40	1B13-CRDH-XX/YY	RPV Control Rod Guide Housing, X/Y Locations	VT-3	3	006-101
B13.40	1B13-CRGT-XX/YY	RPV Control Rod Guide Tube, X/Y Locations	VT-3	3	006-101
B13.40	1B13-CSS-G	RPV Core Support Structure, Top Guide Grid	VT-3	3	006-101
B13.40	1B13-CSS-SI	RPV Core Support Structure, Shroud-Inside	VT-3	3	006-101
B13.40	1B13-CSS-SL-01	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-02	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-03	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-04	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-05	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-06	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-07	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-08	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-09	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-010	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-011	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-SL-012	RPV Core Support Structure, Shroud Leg	VT-3	3	006-101
B13.40	1B13-CSS-S0	RPV Core Support Structure, Shroud Outside	VT-3	3	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-N-2					
B13.40	1B13-CSS-SSP	RPV Core Support Structure, Shroud Support Plate	VT-3	1	006-101
B13.40	1B13-CSS-TG	RPV Core Support Structure, Top Guide Assembly	VT-3	3	006-101
B13.40	1B13-CSS0-XX/YY	RPV Core Support Structure, Orificed Fuel Support	VT-3	1	006-101
B13.50		Not Applicable at PNPP			
B13.60		Not Applicable at PNPP			
EXAMINATION CATEGORY: B-N-3					
B13.70		Not Applicable at PNPP			
EXAMINATION CATEGORY: B-0					
B14.10	1B13-02/23-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-02/23-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-02/27-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-02/27-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-02/31-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-02/31-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-02/35-FW	CRD Housing to Flange Weld	PT	1	006-110
B14.10	1B13-02/35-HW	CRD Housing to Housing Weld	PT	1	006-110
B14.10	1B13-02/39-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-02/39-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-06/15-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-06/15-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-06/47-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-06/47-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-10/11-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-10/11-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-10/51-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-10/51-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-14/07-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-14/07-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-14/55-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-14/55-HW	CRD Housing to Housing Weld	PT	NS	006-110

Inter-service Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-0					
B14.10	1B13-22/03-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-22/03-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-22/59-FW	CRD Housing to Flange Weld	PT	3	006-110
B14.10	1B13-22/59-HW	CRD Housing to Housing Weld	PT	-	006-110
B14.10	1B13-26/03-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-26/03-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-26/59-FW	CRD Housing to Flange Weld	PT	2	006-110
B14.10	1B13-26/59-HW	CRD Housing to Housing Weld	PT	2	006-110
B14.10	1B13-30/03-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-30/03-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-30/59-FW	CRD Housing to Flange Weld	PT	2	006-110
B14.10	1B13-30/59-HW	CRD Housing to Housing Weld	PT	2	006-110
B14.10	1B13-34/03-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-34/03-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-34/59-FW	CRD Housing to Flange Weld	PT	1	006-110
B14.10	1B13-34/59-HW	CRD Housing to Housing Weld	PT	1	006-110
B14.10	1B13-38/03-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-38/03-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-38/59-FW	CRD Housing to Flange Weld	PT	3	006-110
B14.10	1B13-38/59-HW	CRD Housing to Housing Weld	PT	3	006-110
B14.10	1B13-46/07-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-46/07-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-46/55-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-46/55-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-50/11-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-50/11-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-50/51-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-50/51-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-54/15-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-54/15-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-54/47-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-54/47-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-58/23-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-58/23-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-58/27-FW	CRD Housing to Flange Weld	PT	NS	006-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: B-0					
B14.10	1B13-58/27-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-58/31-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-58/31-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-58/35-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-58/35-HW	CRD Housing to Housing Weld	PT	NS	006-110
B14.10	1B13-58/39-FW	CRD Housing to Flange Weld	PT	NS	006-110
B14.10	1B13-58/39-HW	CRD Housing to Housing Weld	PT	NS	006-110

EXAMINATION CATEGORY: B-P

B15.10	PR Components	Reactor Vessel-System Leakage Test	VT-2	1,2,3	
B15.11	PR Components	Reactor Vessel-System Hydrostatic Test	VT-2	3	
B15.20	Pressurizer	Not Applicable at PNPP			
B15.21	Pressurizer	Not Applicable at PNPP			
B15.30	Pressurizer	Not Applicable at PNPP			
B15.31	Pressurizer	Not Applicable at PNPP			
B15.40	Pressurizer	Not Applicable at PNPP			
B15.41	Pressurizer	Not Applicable at PNPP			
B15.50	Piping	Piping-System Leakage Test	VT-2	1,2,3	
B15.51	Piping	Piping-System Hydrostatic Test	VT-2	3	
B15.60	Pumps	Pumps-System Leakage Test	VT-2	1,2,3	
B15.61	Pumps	Pumps-System Hydrostatic Test	VT-2	3	
B15.70	Valves	Valves-System Leakage Test	VT-2	1,2,3	
B15.71	Valves	Valves-System Hydrostatic Test	VT-2	3	

EXAMINATION CATEGORY: B-Q

B16.10	Steam Gen	Not Applicable at PNPP			
B16.20	Steam Gen	Not Applicable at PNPP			

### 3.0 IWC (CLASS 2) EXAMINATIONS

Class 2 examination categories are identifiable by a 'C' as the first assigned letter and are as follows:

Examination Category	Examination Area (Examination Method)
C-A	Pressure Retaining Welds in Pressure Vessels (VOL.)
C-B	Pressure Retaining Nozzle Welds in Vessel (VOL., SUR., VT-2)
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves (SUR.)
C-D	Pressure Retaining Bolting Greater Than 2 inches in Diameter (VOL.)
C-F-1 (N-408-2)	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (VOL., SUR.) (None at Perry)
C-F-2 (N-408-2)	Pressure Retaining Welds in Carbon and Low Alloy Steel Piping (VOL., SUR.)
C-G	Pressure Retaining Welds in Pumps and Valves (SUR.)
C-H	All Pressure Retaining Components (VT-2)

### 3.1 Exemptions

The following components within RHR, ECC, and CHR systems are exempted from volumetric and surface examination requirements per ASME Code Case N-408-2.

1. Vessels, piping, pumps, valves, and other components 4 inch NPS and smaller.
2. Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operations.

The following components in systems other than RHR, ECC, and CHR are exempted from volumetric and surface examination requirements.

1. Vessels, piping, pumps, valves, and other components 4 inch NPS and smaller.
2. Vessels, piping, pumps, valves, other components, and component connections of any size in systems or portions of systems that operate when the system function is required at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200°.

Piping support members and piping support components that are encased in concrete are exempt from examination.

### 3.2 Examination Selection Process

For Examination Categories C-A, C-B, C-C, C-D, C-F-2 and C-G ASME Section XI delineates criteria which are applied in selecting the components or areas to be examined.

#### 3.2.1 C-A, Pressure Retaining Welds in Pressure Vessels, and C-B, Pressure Retaining Nozzle Welds in Vessels.

The criteria for selecting the welds to be examined are:

1. for shell welds, only those at gross structural discontinuities such as shell (or head)-to-flange welds, and head to shell welds;
2. for all shell and nozzle welds, in the case of multiple vessels of similar design, size, and service (such as the RHR heat exchangers), the required examinations may be limited to one vessel.

#### 3.2.2 C-C, Integral Attachments for Vessels, Piping, Pumps, and Valves

The criteria for selecting the welds to be examined are:

1. the attachment is on the outside of the pressure retaining component, and provides support as defined in NF-1110;
2. the attachment base material design thickness is 3/4 in. or greater;
3. in case of multiple vessels of similar design and service. the required examinations may be conducted on only one vessel,
4. limited to attachments of those components required to be examined under Examination Categories C-F and C-G.

#### 3.2.3 C-D, Pressure Retaining Bolting Greater than 2 in. In Diameter

The criteria for selecting the bolting are:

1. the examination of bolting for vessels, pumps, and valves may be conducted on one vessel, one pump, one valve among a group of vessels, pumps, and valves in each system required to be examined and which are similar in design, size, function, and service (for Perry only the LPCS pump has bolting greater than 2 in. in diameter);
2. the examination of flange bolting in piping systems required to be examined may be limited to the flange connections in pipe runs selected for examination under Examination Category C-F-1 and C-F-2 (for Perry there is none greater than 2 in. in diameter).

3.2.4 C-F-2, Pressure Retaining Welds in Carbon or Low Alloy Steel Piping (CC N-408-2)

The criteria for selecting the welds to be examined are:

1. the welds selected for examination shall include 7.5% of all carbon or low alloy welds not exempted by N-408-2 (some welds not exempted by N-408-2, such as welds greater than 4 inch NPS, but less than .375 inch NWT, are not required to be nondestructively examined per C-F-2. These welds, however, shall be included in the total weld count to which the 7.5% sampling rate is applied);
2. the examinations shall be distributed among the Class 2 systems prorated, to the degree practicable, on the number of non-exempt welds in each system;
3. within each system, the examinations shall be distributed among terminal ends and structural discontinuities (and line sizes) prorated, to the degree practicable, on the number of nonexempt terminal ends and structural discontinuities in that system.

The selection criteria is applied individually to the Code item numbers as referenced below:

Class 2 Piping Welds (Carbon or Low Alloy Steel)

1. Code Item Number: C5.50  
Circumferential welds  $\geq 3/8$  inch nominal wall thickness for piping NPS  $> 4$  inches.
2. Code Item Number: C5.51  
Longitudinal welds  $\geq 3/8$  inch nominal wall thickness for piping NPS  $> 4$  inches.
3. Code Item Number: C5.70  
Socket welds.
4. Code Item Number: C5.81  
Circumferential welds in piping branch connections of branch piping NPS  $\geq 2$  inches.
5. Code Item Number: C5.82  
Longitudinal welds in piping branch connections of branch piping NPS  $\geq 2$  inches.

3.2.5 C-G, Pressure Retaining Welds in Pumps and Valves

The criteria for selecting the welds to be examined are:

1. limited to welds in components in piping runs examined under Examination Category C-F-2;

2. in case of multiple pumps and valves of similar design, size, function, and service in a system, the examination of only one pump and one valve among each group of multiple pumps and valves is required (see Tables 3.3.4-1 and 3.3.4-2 below)

TABLE 3.3.4-1 CLASS 2 PUMPS

<u>SYSTEM</u>	<u>PUMP ID</u>	<u>MANUFACTURER</u>
Residual Heat Removal	E12-C002A *	Bryon Jackson
Residual Heat Removal	E12-C002B *	Bryon Jackson
Residual Heat Removal	E12-C002C	Bryon Jackson
Low Pressure Core Spray	E21-C001	Bryon Jackson
High Pressure Core Spray	E22-C001	Bryon Jackson
Reactor Core Isolation Cooling	E51-C001	Bingham Williamette

\* Similar design, size, function, and service

Table 3.3.4-2 Class-2 Valve Grouping

GROUPING NUMBER	MANUFACTURING METHOD	VALVE DESIGN	PIPING SYSTEM	VALVE SIZE (NPS)	WELDED BODY		VALVE ID NUMBER
					YES	NO	
I	Forged	Safety Relief Valve	Residual Heat Removal	6"	Yes Yes		E12-F055A E12-F055B
II	Forged	Check	High Pressure Core Spray	6"	Yes		E22-F003
III	Forged	Gate	High Pressure Core Spray	6"	Yes		E22-F026
IV	Forged	Gate	Reactor Core Isolation Cooling	6"	Yes		E51-F502

### 3.3 Additional Examinations

Examinations performed during an inspection (outage) which reveals indications exceeding acceptance standards will be extended to include additional components within the same examination category, approximately equal to the number of components examined initially during the inspection period.

Additional examinations which reveal a defect require the performance of the remaining interval scheduled examinations for similar components within the examination category. Additional criteria include:

1. Where examinations were limited to one loop or branch run of a similar configuration the additional examinations shall be extended to the second loop or branch run and approximately equal to the number of components initially examined.
2. If the additional examinations of the second loop or branch run reveals a defect the remaining number of loops or branch runs, performing similar function, shall be examined.

### 3.4 Successive Examinations

Components with flaw indications in Class 2 systems qualifying as conditionally acceptable for continued service will be scheduled for re-examination during the next inspection period.

Flaw indications which remain essentially unchanged for the next inspection period will revert to the original schedule of successive inspections.

### 3.5 Relief Requests

When compliance to Code examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for components subject to the examination requirements of ASME Section XI, Article IWC:

IR NO.			
IR-010	R-0	IR-014	R-0
IR-011	R-0	IR-015	R-0
IR-012	R-1	IR-019	R-0
IR-013	R-0	IR-020	R-0
		IR-026	R-0

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-010

I. Identification of Components

Class 2, Category C-A, Item No. C1.20, pressure retaining shell cylinder-to-head weld number 1-E12-B001A-003 in Residual Heat Removal heat exchanger #B0C1A (ISI ISO SS-305-641-121).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% volumetric examination of the weld.

III. Relief Requested

Relief is requested from the required volumetric examination; because of seismic lug interferences only about 43% of weld volume (perpendicular scan) can be examined, at the first and subsequent examinations as scheduled in Section 3.6 if the ISEP.

IV. Basis for Relief

The structural integrity of the subject pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The weld was examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspection.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988, without leakage indication attributable to the subject weld.

Since the construction, operating conditions and environmental conditions of the non-examined portions of the welds are identical to the examined portions, it is reasonable to apply satisfactory results to the non-examined portions.

In summary, because of acceptable initial weld condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine about 40% of weld volume on a continuing basis, and the capability to detect pressure boundary leakage, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-011

I. Identification of Components

Class 2, Category C-B, Item No. C2.21, inle\* nozzle weld number 1-E12-BC01A-004 in residual heat removal heat exchanger shell head (ISI ISO SS-305-641-121).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1, Item No. C2.21 requires a 100% surface and volumetric examination of the weld.

III. Relief Requested

Relief is requested from the required volumetric examination of the subject weld, because instrumentation line obstructions limit examination to 95% of required volume, at the first and subsequent examinations as scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the subject pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The weld was examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspection.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988, without leakage indication attributable to the subject weld.

Since the construction, operating conditions and environmental conditions of the non-examined portions of the weld are identical to the examined portion (95%), it is reasonable to apply satisfactory results to the non-examined portion.

In summary, because of acceptable initial condition, successful code hydrotest and operating experience without related leakage indications, the capability to examine about 95% of weld volume on a continuing basis, and the capability to detect pressure boundary leakage, it is concluded that there is no significant impact on the overall level of plant quality and safety.

Sheet 2 of 2

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-011

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-012, Rev. 1

I. Identification of Components

Class 2, Category C-C, (Item and component numbers in attached table), integrally welded support attachments.

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief is requested from the required 100% surface examinations because of partial inaccessibility of the examination area, at the first and subsequent examinations as scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the subject pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during ASME Section XI preservice inspections.

The pressure boundary passed the required hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990, without leakage indication attributable to the subject welds.

In addition to partial inspection of the subject welds, complete examinations meeting the requirements of the ASME Code Section XI are performed on welds of similar configurations which utilize essentially similar weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portions of the welds are identical to the examined portions, it is reasonable to apply satisfactory results to the non-examined portions.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-012, Rev. 1

In summary, because of acceptable initial condition, successful test and operating experience, the capability to examine at least 50% of the weld surfaces on a continuing basis, the capability to detect pressure boundary leakage, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

No.

NOTE: Revision 0 of this relief request was granted by NRR in a Safety Evaluation dated April 25, 1990.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-012, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
C3.10	1-E12-B001A-SL1	641-121	SEISMIC LUG	GEOMETRY	SURFACE 95%
C3.10	1-E12-B001A-SL2	641-121	SEISMIC LUG	GEOMETRY	SURFACE 95%
C3.10	1-E12-B001A-SL3	641-121	SEISMIC LUG	GEOMETRY	SURFACE 95%
C3.10	1-E12-B001A-SL4	641-121	SEISMIC LUG	GEOMETRY	SURFACE 95%
C3.20	1-E22-H087-WA	701-113	WELDED ATTACHMENT	HANGER/CODE BAND AND DRAIN LINE INTERFERENCES	SURFACE 95%
C3.20	1-E12-H289-WA	641-121	WELDED ATTACHMENT	GEOMETRY	SURFACE 60%
C3.20	1-E12-H290-WA	641-121	WELDED ATTACHMENT	GEOMETRY	SURFACE 60%
C3.20	1-E12-H359-WA	642-116	WELDED ATTACHMENT	GEOMETRY	SURFACE 50%
C3.20	1-E12-H360-WA	642-116	WELDED ATTACHMENT	GEOMETRY	SURFACE 50%
C3.20	1-E12-H368-WA	642-114	WELDED ATTACHMENT	GEOMETRY	SURFACE 60%
C3.20	1-E12-H369-WA	642-114	WELDED ATTACHMENT	GEOMETRY	SURFACE 60%

E12 = Residual Heat Removal  
E22 = High Pressure Core Spray

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-012, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
C3.20	1-E51-C0001-A-WA	631-109	WELDED PUMP CASING SUPPORT BRACKET	PUMP PEDESTAL BLOCKS ACCESS	83%
C3.20	1-E51-C0001-B-WA	631-109	WELDED PUMP CASING SUPPORT BRACKET	PUMP PEDESTAL BLOCKS ACCESS	83%
C3.20	1-E51-C0001-C-WA	631-109	WELDED PUMP CASING SUPPORT BRACKET	PUMP PEDESTAL BLOCKS ACCESS	83%
C3.20	1-E51-C0001-D-WA	631-109	WELDED PUMP CASING SUPPORT BRACKET	PUMP PEDESTAL BLOCKS ACCESS	83%

E51 = Reactor Core Isolation Cooling

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-013

I. Identification of Components

Class 2, Category C-G, Item C6.10, pump casing welds (See attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief from the required surface examinations is requested because the pump barrel is below floor level making the welds inaccessible, at the first and subsequent examinations as scheduled in Section 3.6 of the ISEP. If any of the subject pumps are disassembled for repair or maintenance, with the pump barrel removed, accessible welds will be inspected at that time.

IV. Basis for Relief

The structural integrity of the subject pressure boundaries was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. The subject welds had no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988, without leakage indication attributable to the subject welds.

In summary, because of acceptable initial weld condition, successful code hydrotest and operating experience without related leakage indication, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-013

<u>WELD NO.</u>	<u>ISI ISO SS-305-</u>	<u>DESCRIPTION</u>
1-E22-C001-001	701-114	Pump Head to Barrel Shell Weld
1-E22-C001-002	701-114	Pump Shell to Shell Weld
1-E22-C001-003	701-114	Pump Shell to Shell Weld
1-E22-C001-004	701-114	Pump Shell to Flange Weld
1-E22-C001-013	701-114	Pump Barrel Longseam
1-E22-C001-014	701-114	Pump Barrel Longseam
1-E22-C001-015	701-114	Pump Barrel Longseam
1-E21-C001-001	705-113	Pump Head to Barrel Shell Weld
1-E21-C001-002	705-113	Pump Shell to Shell Weld
1-E21-C001-003	705-113	Pump Shell to Flange Weld
1-E21-C001-012	705-113	Pump Shell to Shell Weld
1-E21-C001-013	705-113	Pump Barrel Longseam
1-E21-C001-014	705-113	Pump Barrel Longseam
1-E21-C001-015	705-113	Pump Barrel Longseam
1-E12-C002A-001	641-120	Pump Head to Barrel Shell Weld
1-E12-C002A-002	641-120	Pump Shell to Shell Weld
1-E12-C002A-003	641-120	Pump Shell to Flange Weld
1-E12-C002A-012	641-120	Pump Shell to Shell Weld
1-E12-C002A-013	641-120	Pump Barrel Longseam
1-E12-C002A-014	641-120	Pump Barrel Longseam
1-E12-C002A-015	641-120	Pump Barrel Longseam

E12 = Residual Heat Removal  
E22 = High Pressure Core Spray  
E21 = Low Pressure Core Spray

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-013

<u>WELD NO.</u>	<u>ISI ISO SS-305-</u>	<u>DESCRIPTION</u>
1-E12-C002C-001	643-122	Pump Head to Barrel Shell Weld
1-E12-C002C-002	643-122	Pump Shell to Shell Weld
1-F12-C002C-003	643-122	Pump Shell to Flange Weld
1-E12-C002C-012	643-122	Pump Shell to Shell Weld
1-E12-C002C-013	643-122	Pump Barrel Longseam
1-E12-C002C-014	643-122	Pump Barrel Longseam
1-E12-C002C-015	643-122	Pump Barrel Longseam

E12 = Residual Heat Removal  
E22 = High Pressure Core Spray  
E21 = Low Pressure Core Spray

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-014

I. Identification of Components

Class 2, Category C-G, Item No. C6.20, 6" high pressure core spray check valve, body weld number 1-E22-FO03-SEAM (Drawing SS-305-701-114).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief from the required surface examination is requested because a code plate partially obstructs about 5% of the examination area, at the first and subsequent examinations scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the valve pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject weld was examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspection.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the weld are identical to the examined portion, it is reasonable to apply satisfactory results to the non-examined portion.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

In summary, because of acceptable initial condition, successful code hydrotest and operating experience, the capability to examine about 95% of the weld surface on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-015

I. Identification of Components

Class 2, Category C-C, Item No. C3.20 integrally welded support attachments for piping (See attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief is requested from the required 100% surface examination of the penetration to process pipe attachment welds due to inaccessibility of the weld face within the ID of the penetration. 50% of the required surface is accessible and will be examined at the first and subsequent inspections scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

Examinations meeting the requirements of the ASME Code Section XI were performed on the accessible face of the attachment weld with acceptable results during preservice inspection.

Penetration attachment welds within the high energy break exclusion region of piping systems were ultrasonically examined from the OD surface of the penetration. Although not performed specifically to supplement the limited surface examinations, these examinations do provide additional assurance of structural integrity.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 250 equivalent full power days between November 1987 and November 1988.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-015

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

In summary, because of acceptable initial condition, successful code hydrotest and operating experience, the capability to examine half of the subject weld surface on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-015

<u>COMPONENT I.D.</u>	<u>ISI ISO SYSTEM/SS-305-</u>
*1G33-P132-WA	RWCU/672-102
1E12-P105-WA	RHR/642-121
1E12-P407-WA	RHR/642-126
1E12-P113-WA	LPCI/642-133
1E12-P412-WA	LPCI/642-137

RWCU = Reactor Water Cleanup  
RHR = Residual Heat Removal  
LPCI = Low Pressure Coolant Injection

\*Received augmented ultrasonic examination as part of high energy break exclusion region.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-019

I. Identification of Components

Class 2, Category C-C (Item and component numbers in attached table), integrally welded support attachments.

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief is requested from the required 100% surface examinations because of partial inaccessibility of the examination area. See attached Table, Category C-C, (Page 2 of 2) for description of obstruction. Table C-C also contains an estimate of the percentage of weld surface accessible and examined during the first refueling outage and which will be examined at subsequent intervals as scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 340 equivalent full power days between November 1987 and February 1989, without leakage indication attributable to the subject welds.

Complete examinations meeting the requirements of the ASME Code Section XI were performed on welds of similar configurations which utilized essentially similar weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-019

I. Identification of Components

Class 2, Category C-C (Item and component numbers in attached table), integrally welded support attachments.

II. ASME B&PV Section XI Requirements

Table IVG-2500-1 requires a 100% surface examination.

III. Relief Requested

Relief is requested from the required 100% surface examinations because of partial inaccessibility of the examination area. See attached Table, Category C-C, (Page 2 of 2) for description of obstruction. Table C-C also contains an estimate of the percentage of weld surface accessible and examined during the first refueling outage and which will be examined at subsequent intervals as scheduled in Section 3.6 of the ISEP.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 340 equivalent full power days between November 1987 and February 1989, without leakage indication attributable to the subject welds.

Complete examinations meeting the requirements of the ASME Code Section XI were performed on welds of similar configurations which utilized essentially similar weld techniques, procedures and materials. The examined welds are subject to the same operating and environmental conditions as the partially examined welds.

Since the construction, operating conditions and environmental conditions of the non-examined portion of the welds are identical to the examined portions, it is reasonable to apply satisfactory results from examined to the non-examined portions.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-019

In summary, because of acceptable initial weld condition, successful code hydrotest and operating experience without related leakage indications, and the capability to examine most or similar weld surfaces on a continuing basis, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-019

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./TSI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPL</u>
C3.20	1C11-H0032-WA	Control Rod Drive SS-305-871-103	Welded Lugs for Pipe Support	Adjacent Structure	86%
C3.20	1C11-H0048-WA	Control Rod Drive SS-305-871-101	Welded Lugs for Pipe Support	Adjacent Structure	86%
C3.20	1C11-H0665-WA	Control Rod Drive SS-305-871-104	Welded Lugs for Pipe Support	Pipe Clamp	87%
C3.20	1C11-H0675-WA	Control Rod Drive SS-305-871-102	Welded Lugs for Pipe Support	Pipe Clamp	87%
C3.20	1E12-H0354-WA	Residual Heat Removal SS-305-642-122	Pipe Anchor	Anchor Configuration	50%
C3.20	1E12-H0670-WA	Residual Heat Removal SS-305-642-137	Welded Lugs for Pipe Support	Pipe Clamp	87%
C3.20	1E22-H0027-WA	High Pressure Core Spray SS-305-701-102	Pipe Anchor	Pipe Clamp	81%

Ferry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-020

I. Identification of Components

Class 2, Category C-F-2, Item C5.51, Piping Welds (See attached table for ID number).

II. ASME B&PV Section XI Requirements

Table 2 of Code Case N408 requires surface and volumetric examination.

III. Relief Requested

Relief is requested from the required volumetric examination due to adjacent socket weld connection which limits access to the required area.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III, and additionally by meeting the requirements of ASME Section XI during preservice inspections. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines. There were no reportable indications during preservice inspections.

The pressure boundary passed the required hydrostatic test, and has operated for a total of about 340 equivalent full power days between November 1987 and February 1989 without leakage indication attributable to the subject welds.

In summary, because of acceptable initial weld condition, successful code hydrotest and operating experience without related leakage indication, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

None

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-020

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SY:</u> <u>0</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPL</u>
C5.51	1E51-0031	RCYC/SS-305- 631-105	Valve P013 to 6" Pipe	Adjacent S. W. Conn.	88%

1-171

Rev. 1

Ferry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-026

I. Identification of Components

Class 2, Category C-C, Item No. C3.20, integrally welded support attachments for piping (see attached table for ID numbers).

II. ASME B&PV Section XI Requirements

Table IWC-2500-1 requires a 100% surface examination (volumetric is not applicable).

III. Relief Requested

Relief is requested from the required 100% surface examination of the support lug to process pipe attachment welds because access limitations from the surrounding guide structure prohibit surface preparation and examination of the attachment welds without disassembly of the guide.

IV. Basis for Relief

The welded attachments identified in the attached table are pipe lugs within large and complicated guide supports for 26" main steam and 20" feedwater piping. Disassembly (and the subsequent reassembly) of the guides to provide access for the required surface exams requires over 220 manhours for each guide in a general radiation area of approximately 5 mr/hr. Without disassembly, access is sufficient for VT-1 examination (utilizing mirrors and a fiberscope) of the welds. Utilization of the VT-1 exams in lieu of surface exams maintains an adequate level of quality and safety without the hardships which would be incurred in disassembly.

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. The subject welds were examined in accordance with the appropriate Code requirements, weld techniques and welders were qualified in accordance with Code requirements, and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and has operated for a total of about 712 equivalent full power days between November 1987 and December 1990.

Design, procurement and operational provisions against nil ductile failure of the subject welds remain as described in the Perry USAR.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-026

In summary, because of acceptable initial condition, successful test and operating experience, the capability to visually examine the subject weld surfaces on a continuing basis, and protection against brittle failure, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

VT-1 examinations will be performed, to the extent and frequency required by Table IWC-2500-1, in lieu of surface examinations.

NOTE: Relief from the subject surface examinations, without performance of an alternative visual examination, was previously requested in Relief Request IR-012, Rev. 0, and granted by NRR in a Safety Evaluation dated April 25, 1990.

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-026

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./DWG. NO.</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPL</u>
C3.20	1N11-H0221-WA	MS/SS-305-605-108	Welded lugs for pipe guide	Guide Assembly	0%*
C3.20	1N11-H0222-WA	MS/SS-305-605-110	Welded lugs for pipe guide	Guide Assembly	0%*
C3.20	1N11-H0223-WA	MS/SS-305-605-107	Welded lugs for pipe guide	Guide Assembly	0%*
C3.20	1N11-H0224-WA	MS/SS-305-605-109	Welded lugs for pipe guide	Guide Assembly	0%*
C3.20	1N27-H0031-WA	FS/SS-305-082-104	Welded lugs for pipe guide	Guide Assembly	0%*
C3.20	1N27-H0032-WA	FW/SS-305-082-101	Welded lugs for pipe guide	Guide Assembly	0%*

\* 0% complete for required surface examination, but essentially 100% complete for alternative VT-1 examination.

MS - Main Steam

FW - Feedwater

### 3.6 Inservice Examination Table

This section contains the listing of all Class 2 components subject to the examination requirements of ASME Section XI Article IWC. The components scheduled for examinations are presented to management for approval 60 days prior to commencing a scheduled refueling outage.

The information presented in the tables are defined below:

1. EXAMINATION CATEGORY - The basis for organizing components subject to examination.
2. ITEM NO. - A division within an examination category which separates the specific examination requirements.
3. MARK No. - A unique identification number assigned to each weld or component.
4. COMPONENT DESCRIPTION - A brief description used to identify the weld or component.
5. EXAM METHOD - This abbreviation identifies the unique non-destructive examination method(s) required for the weld or component. The abbreviations used in this listing are as follows:

MT	-	Magnetic Particle Testing
PT	-	Dye Penetrant Testing
UT	-	Ultrasonic Testing
RT	-	Radiography Testing
VT-1	-	Visual Examination for Surface Conditions
VT-2	-	Visual Examination for Leakage
VT-3	-	Visual Examination for General Conditions

6. PERIOD SCHED. - This column identifies the inspection period which the weld or component is scheduled to receive examination. The period scheduled can be either 1, 2, 3, or any combination of these numbers. For those welds or components not scheduled for examination, the letters "NS" will be inserted in place of an inspection period. For those components only examined when a particular situational requirement is met (ex. when removed), the letters "SR" will be inserted in place of an inspection period. An asterisk(s) in the schedule column denotes a scheduling peculiarity which will be explained at the end of the applicable category.

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-A					
C1.10	1E12-B001A-001	SHELL FLANGE TO SHELL CYLINDER #1	UT	1	641-121
C1.20	1E12-B001A-003	SHELL CYLINDER #3	UT	3	641-121
C1.10	1E12-B001B-001	SHELL FLANGE TO SHELL CYLINDER #1	UT	NS	643-121
C1.20	1E12-B001B-003	SHELL CYLINDER #3	UT	NS	643-121
C1.10	1E12-B001C-001	SHELL FLANGE TO SHELL CYLINDER #1	UT	NS	641-122
C1.20	1E12-B001C-003	SHELL CYLINDER #3	UT	NS	641-122
C1.10	1E12-B001D-001	SHELL FLANGE TO SHELL CYLINDER #1	UT	NS	643-123
C1.20	1E12-B001D-003	SHELL CYLINDER #3	UT	NS	643-123
C1.30		DOES NOT EXIST			
EXAMINATION CATEGORY: C-B					
C2.11		NOT APPLICABLE AT PNPP			
C2.21	1E12-B001A-002	SHELL CYLINDER #1 OUTLET NOZ NR-N3	UT, PT	2	641-121
C2.22	1E12-B001A-002-IR	OUTLET NOZ NR-N3 INNER RADIUS	UT	2	641-121
C2.21	1E12-B001A-004	SHELL HEAD TO INLET NOZ NR-N4	UT, PT	3	641-121
C2.22	1E12-B001A-004-IR	INLET NOZ NR-N4 INNER RADIUS	UT	3	641-121
C2.21	1E12-B001B-002	SHELL CYLINDER #1 OUTLET NOZ NR-N3	UT, PT	NS	643-121
C2.22	1E12-B001B-002-IR	OUTLET NOZ NR-N3 INNER RADIUS	UT	NS	643-121
C2.21	1E12-B001B-004	SHELL HEAD TO INLET NOZ NR-N4	UT, PT	NS	643-121
C2.22	1E12-B001B-004-IR	INLET NOZ NR-N4 INNER RADIUS	UT	NS	643-121
C2.21	1E12-B001C-002	SHELL CYLINDER #1 OUTLET NOZ NR-N3	UT, PT	NS	641-122
C2.22	1E12-B001C-002-IR	OUTLET NOZ NR-N3 IR RADIUS	UT	NS	641-122
C2.21	1E12-B001C-004	SHELL HEAD TO INLET NOZ NR-N4	UT, PT	NS	641-122
C2.22	1E12-B001C-004-IR	INLET NOZ NR-N4 INNER RADIUS	UT	NS	641-122
C2.21	1E12-B001D-002	SHELL CYLINDER #1 OUTLET NOZ NR-N3	UT, PT	NS	643-123
C2.22	1E12-B001D-002-IR	OUTLET NOZ NR-N3 INNER RADIUS	UT	NS	643-123

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAMINATION CATEGORY:</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305</u>
			EXAMINATION CATEGORY: C-B			
C2.21	1E12-B001D-004	SHELL HEAD TO INLET NOZ NK-N4		UT, PT	NS	643-123
C2.22	1E12-B001D-004-IR	INLET NOZ NK-N4 INNER RADIUS		u,	NS	643-123
C2.31		NOT APPLICABLE AT PNP				
C2.32		NOT APPLICABLE AT PNP				
C2.33		NOT APPLICABLE AT PNP				
			EXAMINATION CATEGORY: C-C			
C3.20	1C11-H0031-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-103
C3.20	1C11-H0032-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-103
C3.20	1C11-H0033-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-103
C3.20	1C11-H0038-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-103
C3.20	1C11-H0039-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-103
C3.20	1C11-H0040-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	871-104
C3.20	1C11-H0041-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-104
C3.20	1C11-H0042-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-104
C3.20	1C11-H0043-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-104
C3.20	1C11-H0046-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-101
C3.20	1C11-H0048-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-101
C3.20	1C11-H0049-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-101
C3.20	1C11-H0051-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-101
C3.20	1C11-H0052-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-101
C3.20	1C11-H0053-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-101
C3.20	1C11-H0056-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-102
C3.20	1C11-H0057-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-102
C3.20	1C11-H0060-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-102
C3.20	1C11-H0659-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-102
C3.20	1C11-H0660-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-101
C3.20	1C11-H0661-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	871-101
C3.20	1C11-H0662-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-104
C3.20	1C11-H0665-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	871-104
C3.20	1C11-H0666-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	871-104
C3.20	1C11-H0667-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	871-103
C3.20	1C11-H0668-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	871-103

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-C					
C3.20	1C11-B0674-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	871-101
C3.20	1C11-B0675-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	871-102
C3.10	1E12-B001A-SB1-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	1	641-121
C3.10	1E12-B001A-SB2-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	2	641-121
C3.10	1E12-B001A-SB3-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	3	641-121
C3.10	1E12-B001A-SB4-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	-	641-121
C3.10	1E12-B001A-SL1-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	1	641-121
C3.10	1E12-B001A-SL2-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	2	641-121
C3.10	1E12-B001A-SL3-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	1	641-121
C3.10	1E12-B001A-SL4-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	2	641-121
C3.10	1E12-B001B-SB1-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SB2-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SB3-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SB4-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SL1-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SL2-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SL3-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001B-SL4-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-121
C3.10	1E12-B001C-SB1-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	641-122
C3.10	1E12-B001C-SB2-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	641-122
C3.10	1E12-B001C-SB3-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	641-122
C3.10	1E12-B001C-SB4-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-122
C3.10	1E12-B001C-SL1-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-122
C3.10	1E12-B001C-SL2-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-122
C3.10	1E12-B001C-SL3-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-122
C3.10	1E12-B001C-SL4-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-122
C3.10	1E12-B001D-SB1-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-123
C3.10	1E12-B001D-SB2-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-123
C3.10	1E12-B001D-SB3-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-123
C3.10	1E12-B001D-SB4-WA	HT. EXCH. SUPPORT BRACKET WELDED ATT.	MT	NS	643-123
C3.10	1E12-B001D-SL1-WA	HT. EXCH. GUIDE BRACKET WELDED ATT.	MT	NS	643-123

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAMINATION CATEGORY: C-C	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
C3.10	1E12-B001D-SL2-WA	ET. EXCH. GUIDE BRACKET WELDED ATT.		MT	NS	643-123
C3.10	1E12-B001D-SL3-WA	ET. EXCH. GUIDE BRACKET WELDED ATT.		MT	NS	643-123
C3.10	1E12-B001D-SL4-WA	ET. EXCH. GUIDE BRACKET WELDED ATT.		MT	NS	643-123
C3.30	1E12-C002A-SP2-WA	RIGID PUMP GUIDE		MT	3	641-120
C3.30	1E12-C002A-SP3-WA	RIGID PUMP GUIDE		MT	3	641-120
C3.30	1E12-C002A-SP4-WA	RIGID PUMP GUIDE		MT	3	641-120
C3.30	1E12-C002B-SP2-WA	RIGID PUMP GUIDE		MT	NS	641-123
C3.30	1E12-C002B-SP3-WA	RIGID PUMP GUIDE		MT	NS	641-123
C3.30	1E12-C002B-SP4-WA	RIGID PUMP GUIDE		MT	NS	641-123
C3.30	1E12-C002C-SP2-WA	RIGID PUMP GUIDE		MT	NS	643-122
C3.30	1E12-C002C-SP3-WA	RIGID PUMP GUIDE		MT	NS	643-122
C3.30	1E12-C002C-SP4-WA	RIGID PUMP GUIDE		MT	NS	643-122
C3.20	1E12-H0044-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-137
C3.20	1E12-H0118-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	642-119
C3.20	1E12-H0120-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	643-110
C3.20	1E12-H0169-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-111
C3.20	1E12-H0173-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	642-110
C3.20	1E12-H0187-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	643-101
C3.20	1E12-H0263-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	642-127
C3.20	1E12-H0281-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	643-102
C3.20	1E12-H0289-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	641-101
C3.20	1E12-H0290-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	641-101
C3.20	1E12-H0308-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	642-105
C3.20	1E12-H0320-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	641-101
C3.20	1E12-H0322-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	642-103
C3.20	1E12-H0323-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-103
C3.20	1E12-H0359-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-116
C3.20	1E12-H0360-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	1	642-116
C3.20	1E12-H0368-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-114
C3.20	1E12-H0369-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	3	642-114
C3.20	1E12-H0372-WA	PIPING SUPPORT WELDED ATTACHMENT		MT	2	642-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-C					
C3.20	1E12-H0401-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	642-109
C3.20	1E12-H0412-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	643-117
C3.20	1E12-H0451-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	641-110
C3.20	1E12-H0463-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	641-110
C3.20	1E12-H0464-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	641-109
C3.20	1E12-H0475-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	642-121
C3.20	1E12-H0484-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	642-129
C3.20	1E12-H0488-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	642-129
C3.20	1E12-H0489-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	642-130
C3.20	1E12-H0529-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	641-106
C3.20	1E12-H0670-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	642-137
C3.20	1E12-H0708-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	643-117
C3.20	1E12-H0731-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	642-101
C3.20	1E12-P105-WA	PENETRATION P105 FLUED HEAD TO PROCESS PIPE WELDED ATTACHMENT	MT	3	642-121
C3.20	1E12-P113-WA	PENETRATION P113 FLUED HEAD TO PROCESS PIPE WELDED ATTACHMENT	MT	2	642-126
C3.20	1E12-P407-WA	PENETRATION P407 FLUED HEAD TO PROCESS PIPE WELDED ATTACHMENT	MT	3	642-133
C3.20	1E12-P412-WA	PENETRATION P412 FLUED HEAD TO PROCESS PIPE WELDED ATTACHMENT	MT	2	642-137
C3.30	1E21-C001-SP2-WA	RIGID PUMP GUIDE	MT	3	705-113
C3.30	1E21-C001-SP3-WA	RIGID PUMP GUIDE	MT	3	705-113
C3.30	1E21-C001-SP4-WA	RIGID PUMP GUIDE	MT	3	705-113
C3.20	1E21-H0020-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	705-102
C3.20	1E21-H0023-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	705-103
C3.20	1E21-H0043-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	705-106
C3.30	1E22-C001-SP2-WA	RIGID PUMP GUIDE	MT	3	701-114
C3.30	1E22-C001-SP3-WA	RIGID PUMP GUIDE	MT	3	701-114
C3.20	1E22-H0027-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	701-102

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Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO
EXAMINATION CATEGORY: C-C					
C3.20	1E22-H003C-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	701-101
C3.20	1E22-H0054-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	701-101
C3.20	1E22-H0062-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	701-108
C3.20	1E22-H0065-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	701-112
C3.20	1E22-H0107-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	701-105
C3.30	1E51-C001-A-WA	PUMP SUPPORT WELDED ATTACHMENT	MT	1, 3	631-109
C3.30	1E51-C001-B-WA	PUMP SUPPORT WELDED ATTACHMENT	MT	1, 3	631-109
C3.30	1E51-C001-C-WA	PUMP SUPPORT WELDED ATTACHMENT	MT	1, 3	631-109
C3.30	1E51-C001-D-WA	PUMP SUPPORT WELDED ATTACHMENT	MT	1, 3	631-109
C3.20	1E51-H0026-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	632-105
C3.20	1E51-H0041-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	631-104
C3.20	1E51-H0042-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	3	631-102
C3.20	1E51-H0055-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	2	632-104
C3.20	1G33-P132-WA	PENETRATION P132 FLUID HEAD TO PROCESS PIPE ATTACHMENT WELD	MT	1	672-102
C3.20	1N11-H0221-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	1	605-108
C3.20	1N11-H0222-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	3	605-110
C3.20	1N11-H0223-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	3	605-107
C3.20	1N11-H0224-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	3	605-109
C3.20	1N27-H0031-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	3	082-104
C3.20	1N27-H0032-WA	PIPING SUPPORT WELDED ATTACHMENT	VT-1*	3	082-101
C3.20	1P45-H0611-WA	PIPING SUPPORT WELDED ATTACHMENT	MT	1	792-113
C3.40		NOT APPLICABLE AT PNPP			

\*VT-1 scheduled in lieu of MT (see relief request IR-026)

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-D					
C4.10		NOT APPLICABLE AT PNPP			
C4.20		NOT APPLICABLE AT PNPP			
C4.30	1E21-C001-1B	LPCS PUMP, STUD #1	UT	1	705-113
C4.30	1E21-C001-2B	LPCS PUMP, STUD #2	UT	1	705-113
C4.30	1E21-C001-3B	LPCS PUMP, STUD #3	UT	1	705-113
C4.30	1E21-C001-4B	LPCS PUMP, STUD #4	UT	1	705-113
C4.30	1E21-C001-5B	LPCS PUMP, STUD #5	UT	1	705-113
C4.30	1E21-C001-6B	LPCS PUMP, STUD #6	UT	1	705-113
C4.30	1E21-C001-7B	LPCS PUMP, STUD #7	UT	1	705-113
C4.30	1E21-C001-8B	LPCS PUMP, STUD #8	UT	1	705-113
C4.30	1E21-C001-9B	LPCS PUMP, STUD #9	UT	2	705-113
C4.30	1E21-C001-10B	LPCS PUMP, STUD #10	UT	2	705-113
C4.30	1E21-C001-11B	LPCS PUMP, STUD #11	UT	2	705-113
C4.30	1E21-C001-12B	LPCS PUMP, STUD #12	UT	2	705-113
C4.30	1E21-C001-13B	LPCS PUMP, STUD #13	UT	2	705-113
C4.30	1E21-C001-14B	LPCS PUMP, STUD #14	UT	2	705-113
C4.30	1E21-C001-15B	LPCS PUMP, STUD #15	UT	2	705-113
C4.30	1E21-C001-16B	LPCS PUMP, STUD #16	UT	2	705-113
C4.30	1E21-C001-17B	LPCS PUMP, STUD #17	UT	3	705-113
C4.30	1E21-C001-18B	LPCS PUMP, STUD #18	UT	3	705-113
C4.30	1E21-C001-19B	LPCS PUMP, STUD #19	UT	3	705-113
C4.30	1E21-C001-20B	LPCS PUMP, STUD #20	UT	3	705-113
C4.30	1E21-C001-21B	LPCS PUMP, STUD #21	UT	3	705-113
C4.30	1E21-C001-22B	LPCS PUMP, STUD #22	UT	3	705-113
C4.30	1E21-C001-23B	LPCS PUMP, STUD #23	UT	3	705-113
C4.30	1E21-C001-24B	LPCS PUMP, STUD #24	UT	3	705-113
C4.40		NOT APPLICABLE AT PNPP			

EXAMINATION CATEGORY: C-F-1

C5.11		NOT APPLICABLE AT PNPP			
C5.12		NOT APPLICABLE AT PNPP			
C5.21		NOT APPLICABLE AT PNPP			
C5.22		NOT APPLICABLE AT PNPP			

Inservice Examination Interval Listing ( ont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-F-1					
C5.30		NOT APPLICABLE AT PNPP			
C5.40		NCT APPLICABLE AT PNPP			
C5.41		NOT APPLICABLE AT PNPP			
C5.42		NOT APPLICABLE AT PNPP			
EXAMINATION CATEGORY: C-F-2					
C5.51	1B21-0017	26" VALVE B21-F028C TO PIPE	UT, PT	NS	605-109
C5.51	1B21-0018	26" PIPE TO 28" PIPE	UT, PT	1	605-109
C5.51	1B21-0019	28" PIPE TO VALVE B21-F020C	UT, PT	NS	605-109
C5.51	1B21-0052	26" VALVE B21-F028D TO PIPE	UT, PT	NS	605-110
C5.51	1B21-0053	26" PIPE TO 28" PIPE	UT, PT	NS	605-110
C5.51	1B21-0054	28" PIPE TO VALVE B21-F020D	UT, PT	2	605-110
C5.51	1B21-0094	26" VALVE B21-F028B TO PIPE	UT, PT	NS	605-108
C5.51	1B21-0095	26" PIPE TO 28" PIPE	UT, PT	NS	605-108
C5.51	1B21-0096	28" PIPE TO VALVE B21-F020B	UT, PT	NS	605-108
C5.51	1B21-0130	26" VALVE B21-F028A TO PIPE	UT, PT	NS	605-107
C5.51	1B21-0131	26" PIPE TO 28" PIPE	UT, PT	NS	605-107
C5.51	1B21-0132	28" PIPE TO VALVE B21-F020A	UT, PT	NS	605-107
C5.51	1C11-0001	8" CAP TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0002	8" PIPE TO ELBOW	UT, PT	NS	871-103
C5.51	1C11-0003	8" ELBOW TO TEE	UT, PT	2	871-103
C5.51	1C11-0004	8" TEE TO ELBOW	UT, PT	NS	871-103
C5.51	1C11-0005	8" ELBOW TO 8" X 12" REDUCER	UT, PT	NS	871-103
C5.51	1C11-0006	8" X 12" REDUCER TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0007	12" PIPE TO CAP.	UT, PT	2	871-103
C5.51	1C11-0008	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0009	8" PIPE TO TEE.	UT, PT	NS	871-103
C5.51	1C11-0010	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0010A	8" PIPE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0011	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0012	8" PIPE TO CAP	UT, PT	NS	871-103
C5.51	1C11-0013	8" PIPE TO TEE	UT, PT	NS	871-103
C5.51	1C11-0014	8" TEE TO PIPE	UT, PT	NS	871-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1C11-0015	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0015A	8" PIPE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0016	8" PIPE TO CAP	UT, PT	NS	871-103
C5.51	1C11-0017	8" PIPE BEND TO TEE	UT, PT	NS	871-103
C5.51	1C11-0017A	8" PIPE TO PIPE BEND	UT, PT	NS	871-103
C5.51	1C11-0018	8" TEE TO PIPE BEND	UT, PT	NS	871-103
C5.51	1C11-0019	8" TEE TO PIPE BEND	UT, PT	NS	871-103
C5.51	1C11-0020	8" PIPE BEND TO TEE	UT, PT	NS	871-103
C5.51	1C11-0021	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0022	8" PIPE TO CAP	UT, PT	NS	871-103
C5.51	1C11-0023	8" TEE TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0024	8" PIPE TO ELBOW	UT, PT	NS	871-103
C5.51	1C11-0025	8" ELBOW TO PIPE	UT, PT	NS	871-103
C5.51	1C11-0026	8" PIPE TO CAP	UT, PT	NS	871-103
C5.51	1C11-0027	8" PIPE BEND TO TEE	UT, PT	NS	871-104
C5.51	1C11-0028	8" TEE TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0029	8" TEE TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0030	8" CAP TO PIPE	UT, PT	2	871-104
C5.51	1C11-0031	8" PIPE TO TEE	UT, PT	NS	871-104
C5.51	1C11-0032	8" TEE TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0033	8" TEE TO PIPE	UT, PT	3	871-104
C5.51	1C11-0034	8" PIPE TO CAP	UT, PT	NS	871-104
C5.51	1C11-0035	8" PIPE TO TEE	UT, PT	NS	871-104
C5.51	1C11-0036	8" TEE TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0037	8" TEE TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0038	8" PIPE TO CAP	UT, PT	NS	871-104
C5.51	1C11-0039	8" PIPE TO ELBOW	UT, PT	NS	871-104
C5.51	1C11-0040	8" ELBOW TO PIPE	UT, PT	NS	871-104
C5.51	1C11-0041	8" PIPE TO CAP	UT, PT	NS	871-104
C5.51	1C11-0042	8" CAP TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0043	8" PIPE TO ELBOW	UT, PT	NS	871-101
C5.51	1C11-0044	8" ELBOW TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0045	8" PIPE TO TEE	UT, PT	NS	871-101
C5.51	1C11-0046	8" TEE TO 8" X 12" REDUCING ELBOW	UT, PT	NS	871-101
C5.51	1C11-0047	8" X 12" REDUCING ELBOW TO PIPE	UT, PT	3	871-101

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
		EXAMINATION CATEGORY: C-F-2			
C5.51	1C11-0048	12" PIPE TO CAP	UT, PT	NS	871-101
C5.51	1C11-0049	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0050	6" PIPE TO TEE	UT, PT	NS	871-101
C5.51	1C11-0051	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0052	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0053	8" PIPE TO CAP	UT, PT	NS	871-101
C5.51	1C11-0054	8" PIPE TO TEE	UT, PT	NS	871-101
C5.51	1C11-0055	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0056	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0057	8" PIPE TO CAP	UT, PT	NS	371-101
C5.51	1C11-0058	8" PIPE TO TEE	UT, PT	NS	871-101
C5.51	1C11-0059	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0060	8" TEE TO PIPE BEND	UT, PT	3	871-101
C5.51	1C11-0060A	8" PIPE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0061	8" PIPE TO CAP	UT, PT	NS	871-101
C5.51	1C11-0062	8" PIPE BEND TO TEE	UT, PT	NS	871-101
C5.51	1C11-0063	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0064	8" PIPE TO TEE	UT, PT	NS	871-101
C5.51	1C11-0065	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0066	8" PIPE TO CAP	UT, PT	NS	871-101
C5.51	1C11-0067	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0068	8" PIPE TO ELBOW	UT, PT	NS	871-101
C5.51	1C11-0069	8" ELBOW TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0070	8" PIPE TO CAP	UT, PT	1	871-101
C5.51	1C11-0071	8" TEE TO PIPE	UT, PT	NS	871-101
C5.51	1C11-0072	8" PIPE TO TEE	UT, PT	NS	871-102
C5.51	1C11-0073	8" TEE TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0074	8" TEE TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0075	5" PIPE TO CAP	UT, PT	NS	871-102
C5.51	1C11-0076	5" PIPE TO TEE	UT, PT	NS	871-102
C5.51	1C11-0076A	8" PIPE TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0077	8" TEE TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0078	8" TEE TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0079	8" PIPE TO CAP	UT, PT	1	871-102
C5.51	1C11-0080	8" PIPE TO ELBOW	UT, PT	NS	871-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1C11-0081	8" ELBOW TO PIPE	UT, PT	NS	871-102
C5.51	1C11-0082	8" PIPE TO CAP	UT, PT	NS	871-102
C5.51	1E12-0013	20" PIPE BEND TO VALVE FOOT	UT, PT	NS	642-102
C5.81	1E12-0014	20" PIPE BEND TO 20" X 8" WELDOLET	PT	1	642-101
C5.51	1E12-0015	20" X 8" WELDOLET TO 8" PIPE (<.275 NWT)	N/A	NS	642-101
C5.51	1E12-0016	20" X 20" X 20" TEE TO PIPE BEND	UT, PT	NS	642-101
C5.51	1E12-0017	20" PIPE TO 20" X 20" X 20" TEE	UT, PT	NS	642-101
C5.51	1E12-0017A	20" X 18" REDUCER TO 20" PIPE	UT, PT	NS	642-101
C5.51	1E12-0018	18" PIPE TO 20" X 18" REDUCER	UT, PT	NS	642-101
C5.51	1E12-0019	18" ELBOW TO PIPE	UT, PT	NS	642-101
C5.51	1E12-0020	18" PIPE TO ELBOW	UT, PT	NS	643-103
C5.51	1E12-0021	18" ELBOW TO PIPE	UT, PT	2	643-103
C5.51	1E12-0022	18" PIPE TO ELBOW	UT, PT	NS	642-105
C5.51	1E12-0023	18" VALVE FOOT TO PIPE	UT, PT	NS	642-105
C5.51	1E12-0024	18" PIPE TO VALVE FOOT	UT, PT	NS	642-105
C5.51	1E12-0025	18" ELBOW TO PIPE	UT, PT	NS	642-105
C5.51	1E12-0026	18" PIPE TO ELBOW	UT, PT	NS	642-105
C5.51	1E12-0027	18" ELBOW TO PIPE	UT, PT	NS	642-105
C5.51	1E12-0028	18" PIPE TO ELBOW	UT, PT	NS	642-105
C5.51	1E12-0029	24" X 24" X 18" TEE TO 18" PIPE	UT, PT	3	641-101
C5.51	1E12-0030	24" X 24" X 18" TEE TO 24" PIPE	UT, PT	NC	641-101
C5.51	1E12-0031	24" PIPE TO ELBOW	UT, PT	NS	641-101
C5.51	1E12-0032	24" ELBOW TO PIPE	UT, PT	NS	641-101
C5.51	1E12-0033	24" PIPE TO FLANGE	UT, PT	NS	641-101
C5.51	1E12-0034	24" PIPE TO 24" X 24" X 18" TEE	UT, PT	NS	641-101
C5.51	1E12-0035	24" PIPE TO ELBOW	UT, PT	NS	641-101
C5.51	1E12-0036	24" ELBOW TO PIPE	UT, PT	NS	641-101
C5.51	1E12-0037	24" PIPE TO ELBOW	UT, PT	NS	641-101
C5.51	1E12-0038	24" X 24" X 16" TEE TO 24" PIPE	UT, PT	NS	641-101
C5.51	1E12-0039	24" X 24" X 16" TEE TO 16" PIPE	UT, PT	NS	641-101
C5.51	1E12-0039A	16" PIPE TO FLANGE, LPCS INVERTIBLE	UT, PT	NC	641-101
C5.51	1E12-0040	24" PIPE TO 24" X 24" X 16" TEE	UT, PT	NS	641-101
C5.51	1E12-0041	24" ELBOW TO PIPE	UT, PT	NS	641-101
C5.51	1E12-0042	24" PIPE TO ELBOW	UT, PT	2	641-101
C5.51	1E12-0043	24" ELBOW TO PIPE	UT, PT	NS	642-107

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0044	24" PIPE TO ELBOW	UT, PT	NS	642-107
C5.51	1E12-0045	24" VALVE F004A TO PIPE	UT, PT	NS	642-107
C5.51	1E12-0046	24" PIPE TO VALVE F004A	UT, PT	1	642-107
C5.51	1E12-0047	24" ELBOW TO PIPE	UT, PT	NS	642-107
C5.51	1E12-0048	24" PENETRATION P102 PROCESS PIPE TO ELBOW	UT, PT	NS	642-107
C5.51	1E12-0049	20" TEE TO PIPE	UT, PT	NS	642-101
C5.51	1E12-0050	20" PIPE TO 20" X 20" X 18" TEE	UT, PT	NS	642-102
C5.51	1E12-0051	18" PIPE TO ELBOW	UT, PT	NS	642-109
C5.51	1E12-0052	18" ELBOW TO PIPE	UT, PT	NS	642-109
C5.51	1E12-0053	18" PIPE TO ELBOW	UT, PT	NS	642-110
C5.51	1E12-0054	18" ELBOW TO PIPE	UT, PT	NS	642-110
C5.51	1E12-0055	18" PIPE TO VALVE F067	UT, PT	3	642-110
C5.51	1E12-0056	18" PIPE TO VALVE F068	UT, PT	3	642-110
C5.51	1E12-0057	24" X 18" REDUCING ELBOW TO 18" PIPE	UT, PT	NS	642-111
C5.51	1E12-0058	24" PIPE TO 24" X 18" REDUCING ELBOW	UT, PT	NS	642-111
C5.51	1E12-0059	24" X 24" X 24" TEE TO PIPE	UT, PT	NS	642-111
C5.51	1E12-0060	24" X 24" X 24" TEE TO PIPE	UT, PT	NS	642-111
C5.51	1E12-0061	24" PIPE TO ELBOW	UT, PT	NS	642-111
C5.51	1E12-0062	24" ELBOW TO PIPE	UT, PT	N	642-111
C5.51	1E12-0063	24" PIPE TO ELBOW	UT, PT	NS	642-111
C5.51	1E12-0064	24" ELBOW TO PIPE	UT, PT	NS	642-111
C5.51	1E12-0064A	24" PIPE TO FLANGE	UT, PT	NS	642-111
C5.51	1E12-0064B	24" FLANGE TO PIPE	UT, PT	NS	642-111
C5.51	1E12-0064C	24" PIPE TO FLANGE	UT, PT	2	642-111
C5.51	1E12-0065	24" PIPE TO 24" X 24" X 24" TEE	UT, PT	NS	642-111
C5.51	1E12-0066	24" ELBOW TO PIPE	UT, PT	NS	642-112
C5.51	1E12-0067	24" PIPE TO ELBOW	UT, PT	NS	642-112
C5.51	1E12-0068	24" VALVE F105 TO PIPE	UT, PT	NS	642-112
C5.51	1E12-0069	24" PIPE BEND TO VALVE F105	UT, PT	NS	642-112
C5.51	1E12-0069A	24" PIPE TO PIPE BEND	UT, PT	NS	642-112
C5.51	1E12-0070	24" PEN. P403 TO PIPE BEND	UT, PT	NS	642-112
C5.51	1E12-0071	20" TEE TO PIPE	UT, PT	2	642-102
C5.51	1E12-0072	20" PIPE TO 20" X 18" REDUCING ELBOW	UT, PT	NS	642-102
C5.51	1E12-0073	20" X 18" REDUCING ELBOW TO 18" PIPE	UT, PT	NS	642-102
C5.51	1E12-0074	18" PIPE TO ELBOW	UT, PT	NS	642-113

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO
		EXAMINATION CATEGORY: C-F-2			
C5.51	1E12-0075	18" ELBOW TO PIPE	UT, PT	NS	642-113
C5.51	1E12-0076	18" PIPE TO VALVE F006B	UT, PT	3	642-113
C5.51	1E12-0077	18" PIPE TO VALVE F006B	UT, PT	NS	642-113
C5.51	1E12-0078	18" ELBOW TO PIPE	UT, PT	NS	642-113
C5.51	1E12-0079	18" PIPE TO ELBOW	UT, PT	NS	642-113
C5.51	1E12-0080	18" PIPE TO ELBOW	UT, PT	NS	642-113
C5.51	1E12-0081	18" PIPE TO ELBOW	UT, PT	NS	642-113
C5.51	1E12-0082	24" X 24" X 18" TEE TO 18" PIPE	UT, PT	2	642-114
C5.51	1E12-0083	24" X 24" X 18" TEE TO 24" PIPE	UT, PT	NS	642-114
C5.51	1E12-0084	24" PIPE TO ELBOW	UT, PT	NS	642-114
C5.51	1E12-0085	24" ELBOW TO PIPE	UT, PT	NS	642-114
C5.51	1E12-0086	24" PIPE TO FLANGE	UT, PT	3	642-114
C5.51	1E12-0087	24" PIPE TO 24" X 24" X 18" TEE	UT, PT	NS	642-114
C5.51	1E12-0088	24" ELBOW TO PIPE	UT, PT	NS	642-114
C5.51	1E12-0089	24" ELBOW TO ELBOW	UT, PT	NS	642-114
C5.51	1E12-0090	24" PIPE TO ELBOW	UT, PT	2	642-114
C5.51	1E12-0091	24" ELBOW TO PIPE	UT, PT	NS	642-114
C5.51	1E12-0092	24" PIPE TO ELBOW	UT, PT	NS	642-114
C5.51	1E12-0093	24" ELBOW TO PIPE	UT, PT	NS	642-116
C5.51	1E12-0094	24" PIPE TO ELBOW	UT, PT	NS	642-116
C5.51	1E12-0095	24" VALVE F004B TO PIPE	UT, PT	1	642-116
C5.51	1E12-0096	24" PIPE TO VALVE F004B	UT, PT	NS	642-116
C5.51	1E12-0096A	24" ELBOW TO PIPE	UT, PT	NS	642-116
C5.51	1E12-0096AA	24" PIPE TO PIPE	UT, PT	NS	642-116
C5.51	1E12-0097	24" AUTOMATIC F002 PROCESS PIPE TO ELBOW	UT, PT	NS	642-116
C5.51	1E12-0098	24" X 20" X 18" TEE TO PIPE	UT, PT	NS	642-102
C5.81	1E12-0099	24" PIPE TO 24" X 8" WELDOLET	UT, PT	NS	642-111
C5.51	1E12-0100	24" PIPE TO 24" X 8" WELDOLET	UT, PT	1	642-114
C5.51	1E12-0101	24" X 8" WELDOLET TO 8" PIPE CAP	UT, PT	NS	642-114
C5.51	1E12-0102	24" FLANGE TO PIPE	UT, PT	NS	642-114
C5.51	1E12-0102A	24" PIPE TO FLANGE	UT, PT	NS	642-114
C5.51	1E12-0103	24" FLANGE TO PIPE	UT, PT	NS	642-114
C5.51	1E12-0103	24" PIPE TO FLANGE	UT, PT	NS	642-114
C5.81	1E12-0104	24" PIPE TO 24" X 10" WELDOLET	UT, PT	NS	642-114
C5.81	1E12-0105	24" PIPE TO 24" X 8" WELDOLET	UT, PT	3	642-114

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0106	24" X 8" WELDOLET TO 8" PIPE CAP (<.375 NWT)	N/A	NS	641-101
C5.81	1E12-0107	24" PIPE TO 24" X 8" WELDOLET	PT	NS	641-101
C5.51	1E12-0108	24" PIPE TO FLANGE	UT, PT	NS	641-101
C5.51	1E12-0108A	24" FLANGE TO PIPE	UT, PT	3	641-101
C5.51	1E12-0108B	24" PIPE TO FLANGE	UT, PT	NS	641-101
C5.51	1E12-0109	24" FLANGE TO PIPE	UT, PT	NS	641-101
C5.81	1E12-0110	24" PIPE TO 24" X 8" WELDOLET.	PT	NS	641-101
C5.81	1E12-0111	24" PIPE TO 10" WELDOLET	PT	2	641-101
C5.51	1E12-0112	18" FLANGE TO PIPE.	UT, PT	1	641-102
C5.81	1E12-0113	18" PIPE TO 18" X 6" WELDOLET	PT	NS	641-102
C5.51	1E12-0114	18" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0115	18" PIPE TO FLANGED VALVE F031A	UT, PT	NS	641-102
C5.51	1E12-0116	18" FLANGED VALVE F031A TO PIPE	UT, PT	NS	641-102
C5.51	1E12-0117	18" PIPE TO VALVE F029A	UT, PT	NS	641-102
C5.51	1E12-0118	18" VALVE F029A TO PIPE	UT, PT	NS	641-102
C5.81	1E12-0119	18" PIPE TO 18" X 8" WELDOLET	UT, PT	NS	641-102
C5.51	1E12-0120	18" PIPE TO ELBOW	UT, PT	NS	641-102
C5.51	1E12-0121	18" ELBOW TO PIPE	UT, PT	2	641-102
C5.51	1E12-0122	18" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	641-104
C5.81	1E12-0123	18" PIPE TO 18" X 8" WELDOLET	PT	2	641-104
C5.51	1E12-0124	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	641-109
C5.51	1E12-0125	18" TEE TO PIPE	UT, PT	NS	641-109
C5.51	1E12-0126	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	641-109
C5.51	1E12-0127	18" PIPE TO ELBOW	UT, PT	NS	641-109
C5.51	1E12-0128	18" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0129	18" PIPE TO VALVE F047A	UT, PT	3	641-110
C5.51	1E12-0130	18" VALVE F047A TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0131	18" PIPE TO ELBOW	UT, PT	3	641-110
C5.51	1E12-0132	18" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0133	18" PIPE TO ELBOW	UT, PT	NS	641-110
C5.51	1E12-0134	18" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0138	18" PIPE TO ELBOW	UT, PT	NS	641-110
C5.51	1E12-0139	18" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0140	18" PIPE TO 18" X 18" X 10" TEE	UT, PT	NS	641-110
C5.51	1E12-0141	18" X 18" X 10" TEE TO 10" PIPE (<.375 NWT)	UT, PT	3	641-110
			N/A	NS	641-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0142	18" X 18" X 10" TEE TO 18" PIPE	UT, PT	NS	641-110
C5.51	1E12-0143	18" PIPE TO 20" X 18" REDUCER	UT, PT	NS	641-111
C5.51	1E12-0144	20" X 18" REDUCER TO 20" PIPE	UT, PT	NS	641-111
C5.51	1E12-0145	20" PIPE TO INLET NOZZLE HEAT EXG BOO1A	UT, PT	2	641-111
C5.51	1E12-0146	20" HEAT EX. BOO1A OUTLET NOZZLE TO ELBOW	UT, PT	2	641-113
C5.81	1E12-0147	20" ELBOW TO 20" X 6" ELBOLET	PT	1	641-113
C5.51	1E12-0148	20" X 6" ELBOLET TO 6" PIPE (<.375 NWT)	N/A	NS	641-113
C5.51	1E12-0149	20" ELBOW TO PIPE	UT, PT	NS	641-113
C5.51	1E12-0150	20" PIPE TO 20" X 18" REDUCER	UT, PT	NS	641-113
C5.51	1E12-0151	20" X 18" REDUCER TO 18" PIPE	UT, PT	3	641-118
C5.51	1E12-0152	18" PIPE TO ELBOW	UT, PT	NS	641-118
C5.51	1E12-0153	18" ELBOW TO PIPE	UT, PT	NS	641-118
C5.51	1E12-0154	18" PIPE TO ELBOW	UT, PT	NS	641-118
C5.51	1E12-0155	18" ELBOW TO PIPE	UT, PT	NS	641-118
C5.51	1E12-0156	18" PIPE TO ELBOW	UT, PT	NS	641-118
C5.51	1E12-0157	18" ELBOW TO PIPE	UT, PT	NS	641-118
C5.51	1E12-0158	18" PIPE TO 20" X 18" REDUCING ELBOW	UT, PT	NS	641-118
C5.51	1E12-0159	20" X 18" REDUCING ELBOW TO PIPE	UT, PT	NS	641-118
C5.51	1E12-0160	20" PIPE TO HT EXCHANGER BOO1C INLET NOZ.	UT, PT	3	641-118
C5.51	1E12-0161	18" FLANGE TO PIPE.	UT, PT	1	643-101
C5.81	1E12-0162	18" PIPE TO 18" X 6" WELDOLET	PT	NS	643-101
C5.51	1E12-0163	18" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	643-107
C5.51	1E12-0164	18" PIPE TO FLANGED VALVE F031B	UT, PT	NS	643-101
C5.51	1E12-0165	18" FLANGED VALVE F031B TO PIPE	UT, PT	NS	643-101
C5.51	1E12-0166	18" PIPE TO VALVE F029B	UT, PT	NS	643-101
C5.51	1E12-0167	18" VALVE F029B TO PIPE	UT, PT	NS	643-101
C5.81	1E12-0168	18" PIPE TO 18" X 8" WELDOLET	PT	2	643-101
C5.51	1E12-0169	18" PIPE TO ELBOW	UT, PT	NS	643-101
C5.51	1E12-0170	18" ELBOW TO PIPE	UT, PT	NS	643-101
C5.51	1E12-0171	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	643-104
C5.51	1E12-0172	18" TEE TO PIPE	UT, PT	NS	643-104
C5.51	1E12-0173	18" PIPE TO ELBOW	UT, PT	NS	643-102
C5.51	1E12-0174	18" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0175	18" PIPE TO VALVE F047B	UT, PT	NS	643-102
C5.51	1E12-0176	18" VALVE F047B TO PIPE	UT, PT	NS	643-102

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Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
		EXAMINATION CATEGORY: C-F-2			
C5.51	1E12-0177	18" PIPE TO ELBOW	UT, PT	1	643-102
C5.51	1E12-0178	18" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0179	18" PIPE TO ELBOW	UT, PT	NS	643-102
C5.51	1E12-0180	18" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0184	18" PIPE TO ELBOW	UT, PT	NS	643-102
C5.51	1E12-0185	18" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0186	18" PIPE TO 18" X 18" X 10" TEE	UT, PT	NS	643-102
C5.51	1E12-0187	18" X 18" X 10" TEE TO 10" PIPE (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0188	18" X 18" X 10" TEE TO 18" PIPE	UT, PT	NS	643-102
C5.51	1E12-0189	18" PIPE TO 18" X 20" REDUCER	UT, PT	NS	643-103
C5.51	1E12-0190	18" X 20" REDUCER TO 20" PIPE	UT, PT	NS	643-103
C5.51	1E12-0191	20" PIPE TO HEAT EXCHANGER BU01B INLET NOZ	UT, PT	3	643-103
C5.51	1E12-0192	20" HT. EXC. BU001C OUTLET NOZ TO ELBOW	UT, PT	2	643-106
C5.81	1E12-0193	20" ELBOW TO 20" X 6" ELBOWLET	PT	NS	643-106
C5.51	1E12-0194	20" ELBOW TO PIPE	UT, PT	NS	643-106
C5.51	1E12-0195	20" PIPE TO 20" X 18" REDUCER	UT, PT	NS	643-113
C5.51	1E12-0196	20" X 18" REDUCER TO PIPE	UT, PT	NS	643-113
C5.51	1E12-0197	18" PIPE TO ELBOW	UT, PT	MS	643-113
C5.51	1E12-0198	18" ELBOW TO PIPE	UT, PT	MS	643-113
C5.51	1E12-0199	18" PIPE TO ELBOW	UT, PT	NS	643-113
C5.51	1E12-0200	18" ELBOW TO PIPE	UT, PT	NS	643-113
C5.51	1E12-0201	18" PIPE TO ELBOW	UT, PT	NS	643-113
C5.51	1E12-0202	18" ELBOW TO PIPE	UT, PT	NS	643-113
C5.51	1E12-0203	18" PIPE TO 20" X 18" REDUCING ELBOW	UT, PT	NS	643-113
C5.51	1E12-0204	20" X 18" REDUCING ELBOW TO 20" PIPE	UT, PT	NS	643-113
C5.51	1E12-0205	20" PIPE TO HT. EXC. BU001D INLET NOZZLE	UT, PT	3	643-113
C5.51	1E12-0206	18" FLANGE TO PIPE	UT, PT	2	643-115
C5.81	1E12-0207	18" PIPE TO 18" X 6" WELDOLET	PT	3	643-115
C5.51	1E12-0208	18" PIPE TO FLANGED VALVE F031C	UT, PT	NS	643-115
C5.51	1E12-0209	18" FLANGED VALVE F031C TO PIPE	UT, PT	NS	643-115
C5.51	1E12-0210	18" PIPE TO ELBOW	UT, PT	NS	643-115
C5.51	1E12-0211	16" ELBOW TO PIPE	UT, PT	NS	643-115
C5.81	1E12-0212	18" PIPE TO 18" X 8" WELDOLET	PT	NS	643-115
C5.51	1E12-0213	18" PIPE TO ELBOW	UT, PT	NS	643-115
C5.51	1E12-0214	18" ELBOW TO PIPE	UT, PT	NS	643-115

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0215	18" PIPE TO VALVE F029C	UT, PT	3	643-117
C5.51	1E12-0216	18" VALVE F029C TO PIPE	UT, PT	NS	643-117
C5.51	1E12-0217	18" PIPE TO ELBOW	UT, PT	2	643-117
C5.51	1E12-0218	18" ELBOW TO PIPE	UT, PT	NS	643-117
C5.51	1E12-0218A	18" PIPE TO FLANGE FE N014C	UT, PT	NS	643-117
C5.51	1E12-0218B	18" FLANGE FE N014C TO PIPE	UT, PT	NS	643-117
C5.51	1E12-0219	18" PIPE TO ELBOW	UT, PT	NS	643-117
C5.51	1E12-0220	18" ELBOW TO PIPE	UT, PT	NS	643-117
C5.51	1E12-0221	18" PIPE TO ELBOW	UT, PT	NS	643-117
C5.51	1E12-0222	18" ELBOW TO PIPE	UT, PT	NS	643-118
C5.51	1E12-0223	18" PIPE TO ELBOW	UT, PT	1	643-118
C5.51	1E12-0224	18" ELBOW TO PIPE	UT, PT	NS	643-118
C5.51	1E12-0225	18" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	UT, PT	NS	643-118
C5.51	1E12-0226	18" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0227	18" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0228	18" PIPE TO VALVE F072C (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0229	24" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0230	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-111
C5.51	1E12-0231	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-111
C5.51	1E12-0232	8" PIPE TO VALVE F071C (<.375 NWT)	N/A	NS	642-111
C5.51	1E12-0233	24" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0234	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0235	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0236	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0237	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0238	8" PIPE TO VALVE F071B (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0239	8" PIPE TO VALVE F072 (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0240	8" X 8" X 8" TEE TO PIPE (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0241	8" PIPE TO 8" X 8" X 8" TEE (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0242	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0243	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0244	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0245	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0246	18" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	643-101
C5.51	1E12-0247	8" TEE TO PIPE (<.375 NWT)	N/A	NS	643-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0248	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-108
C5.51	1E12-0249	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-108
C5.51	1E12-0250	8" PIPE TO VALVE E12-F504 (<.375 NWT)	N/A	NS	643-108
C5.51	1E12-0251	8" VALVE E12-F504 TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0252	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0253	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0254	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0255	8" PIPE TO VALVE E12-F040 (<.375 NWT)	N/A	NS	641-115
C5.51	1E12-0256	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-115
C5.51	1E12-0257	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-115
C5.51	1E12-0258	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0259	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0260	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0261	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0262	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0263	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0264	8" TEE TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0265	8" PIPE TO TEE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0266	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0267	8" PIPE TO TEE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0268	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0269	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-114
C5.51	1E12-0270	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0271	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0272	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0273	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0274	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0275	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0276	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0277	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-116
C5.51	1E12-0278	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0279	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0280	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0281	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0282	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-1

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0283	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0284	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0285	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-117
C5.51	1E12-0286	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0287	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0288	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0289	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0290	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0291	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0292	8" VALVE E12-F049 TO PIPE (<.375 NWT)	N/A	NS	641-108
C5.51	1E12-0293	8" PIPE TO VALVE E12-F049 (<.375 NWT)	N/A	NS	641-104
C5.51	1E12-0294	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-104
C5.51	1E12-0295	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-104
C5.51	1E12-0296	18" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0297	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0298	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0298A	8" PIPE TO PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0299	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0300	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0301	8" PIPE TO VALVE F072A (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0302	8" PIPE TO VALVE F071A (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0303	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0304	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0305	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0306	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0307	24" X 8" WELDOLET TO 8" PIPE	N/A	NS	641-101
C5.51	1E12-0308	20" HT. EXCHANGER BOOIC OUTLET NOZ. TO PIPE	UT, PT	2	641-119
C5.81	1E12-0309	20" PIPE TO 20" X 6" WELDOLET	PT	NS	641-119
C5.51	1E12-0310	20" PIPE TO 20" X 18" REDUCING ELBOW	UT, PT	NS	641-119
C5.51	1E12-0311	20" X 18" REDUCING ELBOW TO 18" PIPE	UT, PT	NS	641-119
C5.51	1E12-0312	18" PIPE TO VALVE F003A	UT, PT	NS	641-119
C5.51	1E12-0313	18" VALVE F003A TO PIPE	UT, PT	NS	641-119
C5.51	1E12-0314	18" PIPE TO ELBOW	UT, PT	NS	641-119
C5.51	1E12-0315	18" ELBOW TO PIPE	UT, PT	NS	641-119
C5.51	1E12-0316	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	641-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-363-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0317	18" TEE TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0318	18" PIPE TO ELBOW	UT, PT	NS	641-106
C5.51	1E12-0319	18" ELBOW TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0319A	18" PIPE TO FLANGE FE N014A	UT, PT	NS	641-106
C5.51	1E12-0320	18" TEE TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0320A	18" PIPE TO FLANGE	UT, PT	NS	641-106
C5.51	1E12-0321	18" TEE TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0322	18" PIPE TO 18" X 12" REDUCER	UT, PT	NS	641-106
C5.51	1E12-0323	18" X 12" REDUCER TO 12" PIPE	UT, PT	NS	641-106
C5.51	1E12-0324	12" PIPE TO ELBOW	UT, PT	NS	641-106
C5.51	1E12-0325	12" ELBOW TO PIPE	UT, PT	3	641-106
C5.51	1E12-0326	12" PIPE TO ELBOW	UT, PT	NS	641-106
C5.51	1E12-0327	12" ELBOW TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0328	12" PIPE TO ELBOW	UT, PT	NS	641-106
C5.51	1E12-0329	12" ELBOW TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0330	12" PIPE TO ELBOW	UT, PT	3	642-119
C5.51	1E12-0331	12" ELBOW TO PIPE	UT, PT	NS	642-119
C5.51	1E12-0332	12" PIPE TO VALVE F053A	UT, PT	NS	642-119
C5.51	1E12-0333	12" VALVE F053A TO PIPE	UT, PT	2	642-119
C5.51	1E12-0334	18" PIPE TO ELBOW	UT, PT	NS	642-119
C5.51	1E12-0335	12" ELBOW TO PIPE	UT, PT	NS	642-119
C5.51	1E12-0336	12" PIPE TO VALVE F050A	UT, PT	3	642-120
C5.51	1E12-0337	12" VALVE F050A TO PIPE	UT, PT	1	642-120
C5.51	1E12-0338	12" PIPE TO 12" X 14" REDUCING SLEEVE	UT, PT	1	642-120
C5.81	1E12-0339	12" PIPE TO 12" X 6" SWEEPOLET RWCU INTERTIE	PT	1	642-120
C5.81	1E12-0341	12" PIPE TO 12" X 8" SWEEPOLET	PT	NS	642-119
C5.51	1E12-0342	12" X 8" SWEEPOLET TO 8" PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0343	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0344	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0345	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0346	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0346A	8" PIPE TO PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0347	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0348	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0349	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-119

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0350	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0351	8" PIPE TO FLANGE VALVE F063A (<.375 NWT)	N/A	NS	642-119
C5.51	1E12-0352	18" PIPE TO 18" X 18" TEE	UT, PT	NS	641-106
C5.51	1E12-0353	18" X 18" X 18" TEE TO 18" PIPE	UT, PT	NS	641-106
C5.51	1E12-0354	18" TEE TO PIPE	UT, PT	2	641-106
C5.51	1E12-0355	18" PIPE TO FLANGE RO-D004A	UT, PT	NS	641-106
C5.51	1E12-0356	18" FLANGE RO-D004A TO PIPE	UT, PT	NS	642-130
C5.51	1E12-0357	18" PIPE TO ELBOW	UT, PT	NS	642-130
C5.51	1E12-0358	18" ELBOW TO PIPE	UT, PT	NS	642-130
C5.51	1E12-0359	18" PIPE TO ELBOW	UT, PT	NS	642-130
C5.51	1E12-0360	18" ELBOW TO PIPE	UT, PT	NS	642-130
C5.81	1E12-0361	18" PIPE TO 18" X 6" WELDOLET	PT	3	642-130
C5.51	1E12-0362	18" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0363	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0364	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0365	6" PIPE TO FLANGE FE-N012 (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0366	6" FLANGE FE-N012 TO PIPE (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0367	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0368	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-123
C5.51	1E12-0369	6" PIPE TO 6" X 6" X 6" TEE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0370	6" X 6" X 6" TEE TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0371	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0372	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0373	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0374	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0375	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0376	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0377	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0378	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0379	6" PIPE TO FLANGED VALVE F086	N/A	NS	642-122
C5.51	1E12-0380	18" PIPE TO 18" X 12" REDUCING ELBOW	UT, PT	2	642-129
C5.51	1E12-0381	18" X 12" REDUCING ELBOW TO 12" PIPE	UT, PT	NS	642-129
C5.51	1E12-0382	12" PIPE TO VALVE F027A	UT, PT	NS	642-129
C5.51	1E12-0383	12" VALVE F027A TO PIPE	UT, PT	NS	642-129
C5.51	1E12-0384	12" PIPE TO ELBOW	UT, PT	NS	642-129

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C 7-2					
C5.51	1E12-0385	12" ELBOW TO PIPE	UT, PT	NS	642-129
C5.51	1E12-0386	12" PIPE TO ELBOW	UT, PT	NS	642-129
C5.51	1E12-0387	12" ELBOW TO PIPE	UT, PT	NS	642-129
C5.51	1E12-0388	12" PIPE TO PENETRATION P113 PROCESS PIPE	UT, PT	2	642-129
C5.51	1E12-0389	12" PENETRATION P113 PROCESS PIPE TO PIPE	UT, PT	3	642-126
C5.51	1E12-0389A	12" PIPE TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0390	12" PIPE TO 12" X 12" X 12" TEE.	UT, PT	1	642-126
C5.51	1E12-0391	12" X 12" X 12" TEE TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0393A	12" PIPE TO ELBOW	UT, PT	NS	642-126
C5.51	1E12-0394	12" ELBOW TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0395	12" PIPE TO ELBOW	UT, PT	NS	642-126
C5.51	1E12-0396	12" ELBOW TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0397	12" PIPE TO VALVE F042A	UT, PT	NS	642-126
C5.51	1E12-0413	12" X 12" X 12" TEE TO 12" PIPE	UT, PT	NS	642-126
C5.51	1E12-0413A	12" PIPE TO ELBOW	UT, PT	NS	642-126
C5.51	1E12-0414	12" ELBOW TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0415	12" PIPE TO ELBOW	UT, PT	NS	642-126
C5.51	1E12-0416	12" ELBOW TO PIPE	UT, PT	NS	642-126
C5.51	1E12-0417	12" PIPE TO 12" X 12" X 12" TEE	UT, PT	1	642-127
C5.51	1E12-0418	12" X 12" X 12" TEE TO 12" PIPE	UT, PT	NS	642-127
C5.51	1E12-0419	12" PIPE TO ELBOW	UT, PT	NS	642-128
C5.51	1E12-0420	12" ELBOW TO PIPE	UT, PT	NS	642-128
C5.51	1E12-0421	12" PIPE TO VALVE F037A	UT, PT	NS	642-128
C5.51	1E12-0422	12" TEE TO PIPE	UT, PT	NS	642-127
C5.51	1E12-0423	12" PIPE TO VALVE F028A	UT, PT	NS	642-127
C5.51	1E12-0435	6" TEE TO PIPE (<.375 NWT)	N/A	NS	642-122
C5.51	1E12-0436	6" PIPE TO VALVE F023 (<.375 NWT)	N/A	NS	642-122
C5.81	1E12-0443	18" PIPE TO 18" X 10" WELDOLET	PT	NS	641-106
C5.51	1E12-0444	18" X 10" WELDOLET TO 10" PIPE (<.375 NWT)	N/A	NS	641-106
C5.51	1E12-0445	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-106
C5.51	1E12-0446	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-106
C5.51	1E12-0447	10" PIPE TO PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-0449	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-0450	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-107

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0451	10" PIPE TO VALVE F099A (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-0452	10" TEE TO PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-0453	10" PIPE TO VALVE F552A (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-0454	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	641-106
C5.51	1E12-0454A	18" PIPE TO 18" FLANGE	UT, PT	NS	641-106
C5.51	1E12-0454B	18" FLANGE TO 18" PIPE	UT, PT	NS	641-106
C5.51	1E12-0455	18" ELBOW TO PIPE	UT, PT	3	641-105
C5.51	1E12-0456	18" PIPE TO ELBOW	UT, PT	NS	641-105
C5.51	1E12-0457	18" VALVE F024A TO PIPE	UT, PT	NS	641-105
C5.51	1E12-0458	18" PIPE TO VALVE F024A	UT, PT	2	641-105
C5.51	1E12-0458A	18" PIPE TO PIPE	UT, PT	NS	641-105
C5.51	1E12-0459	18" PIPE TO PENETRATION P105	UT, PT	2	641-105
C5.51	1E12-0459A	18" PIPE TO PIPE	UT, PT	NS	641-105
C5.51	1E12-0460	18" PENETRATION P105 TO PIPE	UT, PT	NS	642-121
C5.51	1E12-0461	18" PIPE TO ELBOW	UT, PT	NS	642-121
C5.51	1E12-0462	18" ELBOW TO FLANGE RO-D003A	UT, PT	NS	642-121
C5.51	1E12-0463	18" FLANGE RO-D003A TO 18" X 10" REDUCER	UT, PT	NS	642-121
C5.52	1E12-0463-D	18" X 12" REDUCER SEAM	UT, PT	NS	642-121
C5.51	1E12-0464	18" X 10" REDUCER TO 10" PIPE (<.375 NWT)	N/A	NS	642-121
C5.51	1E12-0464-D	18" PIPE SEAM (<.375 NWT)	N/A	NS	642-121
C5.51	1E12-0464-U	18" REDUCER SEAM (<.375 NWT)	N/A	NS	642-121
C5.51	1E12-0465	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-121
C5.51	1E12-0466	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-121
C5.81	1E12-0467	18" X 12" WELDOLET TO 18" PIPE	PT	NS	641-105
C5.51	1E12-0468	12" X 12" X 12" TEE TO 18" X 12" WELDOLET	UT, PT	NS	641-105
C5.51	1E12-0469	12" X 12" X 12" TEE TO PIPE	UT, PT	NS	641-105
C5.51	1E12-0470	12" PIPE TO 12" X 12" X 6" TEE	UT, PT	NS	641-105
C5.51	1E12-0471	12" X 12" X 6" TEE TO 12" FLANGE LPCS INTERTIE	UT, PT	NS	641-105
C5.51	1E12-0472	12" X 12" X 6" TEE TO 6" ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0473	6" ELBOW TO 6" X 4" REDUCER (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0494	12" X 6" REDUCER TO 12" X 12" X 12" TEE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0495	6" ELBOW TO 12" X 6" REDUCER (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0496	6" VALVE F018A TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0497	6" PIPE TO VALVE F018A (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0498	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0499	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-0500	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0501	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0502	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0503	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0504	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0505	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0506	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0507	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0508	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0509	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0509A	6" FLANGE TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0510	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0510A	6" PIPE TO FLANGE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0511	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0513	6" FLANGE VALVE F046A TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0514	6" PIPE TO FLANGED VALVE F046A (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0515	6" FLANGE RO-D001A TO PIP2 (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0516	6" PIPE TO FLANGE RO-D001A (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0517	6" VALVE F064A TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0518	6" PIPE TO VALVE F064A (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0519	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0520	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-103
C5.51	1E12-0521	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0522	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-102
C5.51	1E12-0523	20" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0526	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0527	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0528	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0529	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0530	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0531	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0532	6" PIPE TO VALVE F502C (<.375 NWT)	N/A	NS	641-119
C5.51	1E12-0539	6" PIPE TO VALVE F502A (<.375 NWT)	N/A	NS	641-113
C5.51	1E12-0540	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHEP.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0541	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-113
C5.51	1E12-0542	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-113
C5.51	1E12-0543	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-113
C5.51	1E12-0544	18" TEE TO PIPE	UT, PT	NS	641-106
C5.51	1E12-0545	18" PIPE TO ELBOW	UT, PT	NS	641-106
C5.51	1E12-0547	18" ELBOW TO VALVE F048A	UT, PT	NS	641-106
C5.51	1E12-0548	18" PIPE TO VALVE F048A	UT, PT	NS	641-109
C5.51	1E12-0549	18" ELBOW TO PIPE	UT, PT	NS	641-109
C5.51	1E12-0550	18" PIPE TO ELBOW	UT, PT	NS	641-109
C5.51	1E12-0551	20" HT. EXC. BOO1D OUTLET "WZL" TO PIPE	UT, PT	NS	643-114
C5.51	1E12-0552	20" PIPE TO 20" X 18" REDUCING ELBOW	UT, PT	NS	643-114
C5.51	1E12-0553	20" X 18" REDUCING ELBOW TO 18" PIPE	UT, PT	NS	643-114
C5.51	1E12-0554	18" PIPE TO VALVE F063B	UT, PT	NS	643-114
C5.51	1E12-0555	18" VALVE F063B TO PIPE	UT, PT	NS	643-114
C5.51	1E12-0556	18" PIPE TO ELBOW	UT, PT	NS	643-114
C5.51	1E12-0557	18" ELBOW TO PIPE	UT, PT	NS	643-114
C5.51	1E12-0558	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	643-105
C5.51	1E12-0559	18" TEE TO PIPE	UT, PT	3	643-105
C5.51	1E12-0559A	18" PIPE TO ELBOW	UT, PT	NS	643-105
C5.51	1E12-0559B	18" ELBOW TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0559C	18" PIPE TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0559D	18" PIPE TO VALVE P45-F575	UT, PT	1	643-105
C5.51	1E12-0560	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0561	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	643-105
C5.51	1E12-0562	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0563	18" PIPE TO ELBOW	UT, PT	NS	643-105
C5.51	1E12-0564	18" ELBOW TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0565	18" PIPE TO FLANGE FE-N014B	UT, PT	NS	643-105
C5.51	1E12-0566	18" PIPE TO FLANGE FE-N014B	UT, PT	3	643-110
C5.51	1E12-0567	18" TEE TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0568	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0569	18" PIPE TO 18" X 12" REDUCER	UT, PT	NS	643-110
C5.51	1E12-0570	18" X 12" REDUCER TO 12" PIPE	UT, PT	NS	643-110
C5.51	1E12-0570A	12" PIPE TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0571	12" PIPE TO ELBOW	UT, PT	NS	643-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0572	12" ELBOW TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0573	12" PIPE TO ELBOW	UT, PT	NS	643-110
C5.51	1E12-0574	12" ELBOW TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0575	12" PIPE TO ELBOW	UT, PT	NS	643-110
C5.51	1E12-0576	12" ELBOW TO PIPE	UT, PT	NS	643-110
C5.51	1E12-0577	12" PIPE TO ELBOW	UT, PT	NS	642-132
C5.51	1E12-0578	12" ELBOW TO PIPE	UT, PT	NS	642-132
C5.51	1E12-0578A	12" PIPE TO PIPE	UT, PT	NS	642-132
C5.51	1E12-0579	12" PIPE TO VALVE F053B	UT, PT	2	642-132
C5.51	1E12-0580	12" VALVE F053B TO PIPE	UT, PT	NS	642-132
C5.51	1E12-0581	12" PIPE TO ELBOW	UT, PT	NS	642-132
C5.51	1E12-0582	12" ELBOW TO PIPE	UT, PT	NS	642-132
C5.51	1E12-0583	12" PIPE TO VALVE F050B	UT, PT	NS	642-131
C5.51	1E12-0584	12" VALVE F050B TO PIPE	UT, PT	NS	642-131
C5.51	1E12-0585	12" PIPE TO 12" X 6" SWEEPOLET	PT		642-131
C5.51	1E12-0586	12" PIPE TO 12" X 14" REDUCING SLEEVE	UT, PT		642-131
C5.81	1E12-0588	12" PIPE TO 12" X 8" SWEEPOLET	PT	NS	642-132
C5.51	1E12-0589	12" X 8" SWEEPOLET TO 8" PIPE (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0590	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0591	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0592	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0593	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0594	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0595	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0596	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0597	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0598	8" PIPE TO VALVE F063B (<.375 NWT)	N/A	NS	642-132
C5.51	1E12-0601	8" PIPE TO VALVE F063C (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0602	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0603	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0604	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0605	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0606	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0607	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0608	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-134

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0609	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0610	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0611	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0612	12" X 8" WELDOLET TO 8" PIPE (<.375 NWT)	N/A	NS	642-134
C5.51	1E12-0613	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	3	643-110
C5.81	1E12-0614	18" PIPE TO 18" X 10" WELDOLET	PT	NS	643-110
C5.51	1E12-0615	18" X 10" SWEEPolet TO 10" PIPE (<.375 NWT)	N/A	NS	643-110
C5.51	1E12-0616	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-110
C5.51	1E12-0617	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-110
C5.51	1E12-0619	10" PIPE TO 10" X 10" X 10" TEE (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0620	10" X 10" X 10" TEE TO PIPE (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0621	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0622	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0623	10" PIPE TO VALVE F099B (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0624	10" TEE TO PIPE (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0624A	10" PIPE TO PIPE (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0625	10" PIPE TO VALVE F552B (<.375 NWT)	N/A	NS	643-112
C5.51	1E12-0626	18" ELBOW TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0626A	18" PIPE TO ELBOW	UT, PT	1	643-109
C5.51	1E12-0627	18" PIPE TO FLANGE R0-D004B	UT, PT	NS	643-109
C5.51	1E12-0627A	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0628	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0629	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	NS	643-109
C5.51	1E12-0630	18" ELBOW TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0631	18" PIPE TO ELBOW	UT, PT	NS	643-109
C5.51	1E12-0631A	18" PIPE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0631B	18" PIPE TO FLANGE	UT, PT	NS	643-109
C5.51	1E12-0631C	18" FLANGE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0632	18" ELBOW TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0633	18" PIPE TO ELBOW	UT, PT	NS	643-109
C5.51	1E12-0634	18" PIPE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0635	18" VALVE F042B TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0636	18" PIPE TO VALVE F024B	UT, PT	NS	643-109
C5.51	1E12-0636A	18" PIPE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0637	18" ELBOW TO PIPE	UT, PT	NS	643-109

Inservice Examination Interval Listing (Continued)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0638	18" PIPE TO ELBOW	UT, PT	3	643-109
C5.51	1E12-0638A	18" PIPE TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0639	18" PIPE TO PENETRATION P407	UT, PT	2	643-109
C5.51	1E12-0640	18" PENETRATION P406 TO PIPE	UT, PT	NS	642-133
C5.51	1E12-0641	18" PIPE TO ELBOW	UT, PT	NS	642-133
C5.51	1E12-0642	18" ELBOW TO FLANGE RO-DOO3B.	UT, PT	1	642-133
C5.51	1E12-0643	18" FLANGE RO-DOO3B TO 18" X 10" REDUCER	UT, PT	NS	642-133
C5.52	1E12-0643D	18" X 10" REDUCER SEAM, DOWNSTREAM	UT, PT	NS	642-133
C5.51	1E12-0644	18" X 10" REDUCER TO 10" PIPE (<.375 NWT)	N/A	NS	642-133
C5.52	1E12-0644-U	18" X 10" REDUCER SEAM, UPSTREAM (<.375 NWT)	N/A	NS	642-133
C5.52	1E12-0644-D	10" PIPE SEAM (<.375 NWT)	N/A	PT	NS 642-133
C5.51	1E12-0645	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-133
C5.51	1E12-0646	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-133
C5.81	1E12-0648	18" X 6" WELDOLET TO 18" PIPE	PT	3	643-109
C5.51	1E12-0649	6" PIPE TO 18" X 6" WELDOLET (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0650	6" X 6" X 6" TEE TO PIPE (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0651	6" TEE TO 6" PIPE (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0652	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0653	6" ELBOW TO 6" X 4" REDUCER (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0654	6" PIPE TO 6" X 6" X 6" TEE (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0655	6" VALVE F018B TO PIPE (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0656	6" PIPE TO VALVE F018B (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0657	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0658	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-109
C5.51	1E12-0659	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0660	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0661	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0662	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0663	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0664	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0665	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0666	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0667	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0668	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0668A	6" FLANGE TO PIPE (<.375 NWT)	N/A	NS	643-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0669	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0669A	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0669B	6" PIPE TO FLANGE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0670	6" FLANGED VALVE F046B TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0671	6" PIPE TO FLANGED VALVE F046B (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0672	6" FLANGE RO-DOO1B TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0673	6" PIPE TO FLANGE RO-DOO1B (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0674	6" VALVE F064B TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0675	6" PIPE TO VALVE F064B (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0676	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0677	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-111
C5.51	1E12-0678	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-107
C5.51	1E12-0679	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-107
C5.51	1E12-0682	18" FLANGE RO-DOO4B TO PIPE	UT, PT	NS	643-109
C5.51	1E12-0683	18" PIPE TO 18" X 12" REDUCING ELBOW	UT, PT	NS	642-136
C5.51	1E12-0684	18" X 12" REDUCING ELBOW TO PIPE	UT, PT	NS	642-136
C5.51	1E12-0685	12" PIPE TO VALVE F027B	UT, PT	NS	642-136
C5.51	1E12-0686	12" VALVE F027B TO PIPE	UT, PT	NS	642-136
C5.51	1E12-0687	12" PIPE TO ELBOW	UT, PT	NS	642-136
C5.51	1E12-0688	12" ELBOW TO PIPE	UT, PT	NS	642-136
C5.51	1E12-0688A	12" PIPE TO PIPE	UT, PT	NS	642-136
C5.51	1E12-0689	12" PIPE TO PENETRATION P412 PROCESS PIPE	UT, PT	3	642-136
C5.51	1E12-0690	12" PENETRATION P412 PROCESS PIPE TO PIPE	UT, PT	2	642-137
C5.51	1E12-0691	12" PIPE TO 12" X 12" X 12" TEE	UT, PT	NS	642-137
C5.51	1E12-0692	12" X 12" X 12" TEE TO PIPE	UT, PT	NS	642-137
C5.51	1E12-0693	12" PIPE TO VALVE F042B	UT, PT	NS	642-137
C5.51	1E12-0721	12" TEE TO PIPE	UT, PT	NS	642-137
C5.51	1E12-0722	12" PIPE TO ELBOW	UT, PT	NS	642-137
C5.51	1E12-0723	12" ELBOW TO PIPE	UT, PT	NS	642-137
C5.51	1E12-0724	12" PIPE TO ELBOW	UT, PT	NS	642-137
C5.51	1E12-0725	12" ELBOW TO PIPE	UT, PT	NS	642-137
C5.51	1E12-0726	12" PIPE TO ELBOW	UT, PT	NS	642-137
C5.51	1E12-0727	12" ELBOW TO PIPE	UT, PT	NS	642-137
C5.51	1E12-0728	12" PIPE TO 12" X 12" X 12" TEE	UT, PT	NS	642-138
C5.51	1E12-0729	12" X 12" X 12" TEE TO ELBOW	UT, PT	NS	642-138

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0730	12" ELBOW TO PIPE	UT, PT	NS	642-138
C5.51	1E12-0731	12" TEE TO PIPE	UT, PT	NS	642-138
C5.51	1E12-0732	12" PIPE TO VALVE F037B	UT, PT	NS	642-138
C5.51	1E12-0734	12" PIPE TO VALVE F028B	UT, PT	NS	642-138
C5.51	1E12-0750	18" TEE TO PIPE	UT, PT	NS	643-105
C5.51	1E12-0751	18" PIPE TO ELBOW	UT, PT	NS	643-105
C5.51	1E12-0752	18" ELBOW TO VALVE F048B	UT, PT	NS	643-105
C5.51	1E12-0754	18" PIPE TO VALVE F048B	UT, PT	NS	643-104
C5.51	1E12-0755	18" ELBOW TO PIPE	UT, PT	NS	643-104
C5.51	1E12-0756	18" PIPE TO ELBOW	UT, PT	2	643-104
C5.51	1E12-0757	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-104
C5.81	1E12-0758	20" PIPE TO 20" X 6" WELDOLET	PT	2	643-114
C5.51	1E12-0759	20" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0762	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0763	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0764	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0765	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0766	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0767	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0768	6" PIPE TO VALVE F502D (<.375 NWT)	N/A	NS	643-114
C5.51	1E12-0773	6" PIPE TO VALVE F502B (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0774	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0775	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0776	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0777	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0778	20" X 6" ELBOLET TO PIPE (<.375 NWT)	N/A	NS	643-106
C5.51	1E12-0780	8" PIPE TO FLANGED VALVE F020 (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0781	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0782	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0783	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0784	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0785	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0786	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0787	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-108
C5.51	1E12-0788	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0789	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-104
C5.51	1E12-0790	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-104
C5.51	1E12-0791	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0792	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0793	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0794	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0795	8" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0796	8" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-101
C5.51	1E12-0810	6" PIPE TO VALVE F018C (<.375 NWT)	N/A	NS	643-120
C5.51	1E12-0811	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-120
C5.51	1E12-0812	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-120
C5.51	1E12-0813	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-119
C5.51	1E12-0814	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-119
C5.51	1E12-0815	6" PIPE TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0816	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0817	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0818	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0819	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0820	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0821	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0822	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0823	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0823A	6" FLANGE TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0824	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0824A	6" PIPE TO FLANGE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0825	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0826	6" FLANGED VALVE F046C TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0827	6" PIPE TO FLANGED VALVE F046C (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0827A	6" FLANGE RO-0001C TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0827B	6" PIPE TO FLANGE RO-0001C (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0828	6" VALVE F064C TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0829	6" PIPE TO VALVE F064C (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0830	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0831	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-116
C5.51	1E12-0832	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-115

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MATER. NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0833	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0834	18" X 6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	643-115
C5.51	1E12-0837	18" VALVE F021 TO 18" PIPE	UT, PT	NS	643-120
C5.51	1E12-0838	18" PIPE TO TEE	UT, PT	NS	643-120
C5.51	1E12-0839	18" PIPE TO 18" X 18" X 18" TEE	UT, PT	3	643-120
C5.51	1E12-0840	18" X 18" X 18" TEE TO PIPE	UT, PT	NS	643-120
C5.51	1E12-0841	18" PIPE TO ELBOW	UT, PT	NS	643-120
C5.51	1E12-0842	18" ELBOW TO PIPE	UT, PT	NS	643-120
C5.51	1E12-0843	18" PIPE TO FLANGE RO-D004C	UT, PT	NS	643-120
C5.51	1E12-0844	18" FLANGE RO-D004C TO PIPE	UT, PT	NS	643-120
C5.51	1E12-0845	18" PIPE TO ELBOW	UT, PT	NS	643-120
C5.51	1E12-0846	18" ELBOW TO PIPE	UT, PT	2	643-120
C5.51	1E12-0847	18" PIPE TO 18" X 12" REDUCING ELBOW	UT, PT	NS	642-134
C5.51	1E12-0848	18" X 12" REDUCING ELBOW TO 12" PIPE	UT, PT	NS	642-134
C5.51	1E12-0849	12" PIPE TO 12" X 8" SWEEPLET	UT, PT	NS	642-134
C5.51	1E12-0850	12" PIPE TO VALVE F042C	UT, PT	NS	642-134
C5.51	1E12-0896	24" X 10" WELDOLET TO 10" PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0897	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0898	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0899	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0900	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-114
C5.51	1E12-0901	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-115
C5.51	1E12-0902	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-115
C5.51	1E12-0903	10" PIPE TO VALVE F066B (<.375 NWT)	N/A	NS	642-115
C5.51	1E12-0905	24" X 10" WELDOLET TO 10" PIPE (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0906	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0907	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0908	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0909	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-101
C5.51	1E12-0910	10" PIPE TO ELBOW (<.375 NWT)	N/A	NS	642-106
C5.51	1E12-0911	10" ELBOW TO PIPE (<.375 NWT)	N/A	NS	642-106
C5.51	1E12-0912	10" PIPE TO VALVE F066A (<.375 NWT)	N/A	NS	642-106
C5.51	1E12-0914	10" PIPE TO 10" X 10" X 4" TEE RCIC HEAD SPRAY INERTIE	UT, PT	NS	641-112
C5.51	1E12-0915	10" ELBOW TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0916	10" PIPE TO ELBOW	UT, PT	NS	641-112

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0917	10" X 10" X 10" TEE TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0918	10" PIPE TO 10" X 10" X 10" TEE	UT, PT	NS	641-112
C5.51	1E12-0919	10" ELBOW TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0920	10" PIPE TO ELBOW	UT, PT	1	641-112
C5.51	1E12-0921	10" ELBOW TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0922	10" PIPE TO ELBOW	UT, PT	NS	641-112
C5.51	1E12-0923	10" PIPE (SCH 100) TO PIPE (SCH 80)	UT, PT	1	641-110
C5.51	1E12-0924	10" VALVE F052A TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0925	10" PIPE TO VALVE F052A	UT, PT	NS	641-110
C5.51	1E12-0926	10" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0927	10" PIPE TO ELBOW	UT, PT	NS	641-110
C5.51	1E12-0928	10" X 10" X 6" TEE TO 10" PIPE	UT, PT	NS	641-110
C5.51	1E12-0929	10" PIPE TO 10" X 10" X 6" TEE	UT, PT	NS	641-110
C5.51	1E12-0930	10" ELBOW TO PIPE	UT, PT	NS	641-110
C5.51	1E12-0931	10" PIPE TO ELBOW	UT, PT	3	641-110
C5.51	1E12-0932	10" X 6" REDUCER TO 10" PIPE	UT, PT	NS	641-110
C5.51	1E12-0932A	6" VALVE F051A TO 10" X 6" REDUCER	RT, PT	NS	641-110
C5.51	1E12-0933	10" PIPE TO 10" X 6" REDUCER (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0933A	10" X 6" REDUCER TO 6" VALVE F051A (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0934	10" PIPE TO 10" X 10" X 6" TEE (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0935	10" X 10" X 6" TEE TO 10" PIPE (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0935A	10" X 10" X 6" TEE TO 6" PIPE (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0936	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0937	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0938	6" PIPE TO VALVE F087A (<.375 NWT)	N/A	NS	641-110
C5.51	1E12-0939	6" VALVE F087A PIPE	UT, PT	NS	641-110
C5.51	1E12-0940	6" PIPE TO 10" X 10" X 6" TEE	UT, PT	2	641-110
C5.51	1E12-0968	10" PIPE TO 10" X 10" X 10" TEE	UT, PT	3	641-112
C5.51	1E12-0969	10" ELBOW TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0970	10" PIPE TO ELBOW	UT, PT	NS	641-112
C5.51	1E12-0971	10" ELBOW TO PIPE	UT, PT	NS	641-112
C5.51	1E12-0972	10" PIPE TO ELBOW	UT, PT	NS	641-112
C5.51	1E12-0973	10" VALVE F052B TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0973A	10" PIPE (SCH 100) TO PIPE (SCH 80)	UT, PT	NS	643-102
C5.51	1E12-0974	10" PIPE TO VALVE F052B	UT, PT	NS	643-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-0975	10" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0976	10" PIPE TO ELBOW	UT, PT	3	643-102
C5.51	1E12-0977	10" X 10" X 6" TEE TO 10" PIPE	UT, PT	NS	643-102
C5.51	1E12-0978	10" PIPE TO 10" X 10" X 6" TEE	UT, PT	NS	643-102
C5.51	1E12-0979	10" ELBOW TO PIPE	UT, PT	NS	643-102
C5.51	1E12-0980	10" PIPE TO ELBOW	UT, PT	NS	643-102
C5.51	1E12-0980A	10" X 6" REDUCER TO 10" PIPE	UT, PT	NS	643-102
C5.51	1E12-0981	6" VALVE F051B TO 10" X 6" REDUCER	UT, PT	NS	643-102
C5.51	1E12-0982	10" X 6" REDUCER TO 6" VALVE F051B	UT, PT	NS	643-102
C5.51	1E12-0982A	10" PIPE TO 10" X 6" REDUCER (<.375 NWT)	UT, PT	NS	643-102
C5.51	1E12-0983	10" PIPE TO 10" X 10" X 6" TEE (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0983A	10" X 10" X 6" TEE TO 10" PIPE (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0984	10" X 10" X 6" TEE TO 6" PIPE (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0985	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0986	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0987	6" PIPE TO VALVE F087B (<.375 NWT)	N/A	NS	643-102
C5.51	1E12-0988	6" PIPE TO VALVE F087B	N/A	NS	643-102
C5.51	1E12-0989	10" X 10" X 6" TEE TO 6" PIPE	UT, PT	NS	643-102
C5.51	1E12-1014	18" VALVE P45-F575 TO 18" PIPE	UT, PT	2	643-102
C5.51	1E12-1015	18" PIPE TO VALVE P45-F573	UT, PT	NS	643-105
C5.81	1E12-1016	6" WELDOLET TO 18" PIPE (<.375 NWT)	UT, PT	NS	643-105
C5.51	1E12-1017	6" PIPE TO 6" WELDOLET (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1018	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1019	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1020	6" VALVE F609 TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1021	6" PIPE TO VALVE F609 (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1022	6" VALVE F610 TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1023	6" PIPE TO VALVE F610 (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1024	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1025	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1026	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1027	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1028	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1029	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-105
C5.51	1E12-1030	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-107

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E12-1031	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1032	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1033	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1034	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1035	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1036	10" X 6" REDUCER TO 6" PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1037	10" PIPE TO 10" X 6" REDUCER (<.375 NWT)	N/A	NS	641-107
C5.51	1E12-1038	10" VALVE P522A TO PIPE (<.375 NWT)	N/A	NS	641-107
C5.51	1E21-0031	12" PIPE TO VALVE F005	UT, PT	NS	705-108
C5.51	1E21-0032	12" PIPE TO 6" WELDOLET	UT, PT	NS	705-108
C5.51	1E21-0033	14" X 12" REDUCING ELBOW TO 12" PIPE	UT, PT	3	705-108
C5.51	1E21-0034	14" PIPE TO 14" X 12" REDUCING ELBOW	PT, FT	NS	705-108
C5.51	1E21-0035	14" FLANGE TO PIPE	UT, PT	NS	705-107
C5.51	1E21-0036	14" X 14" X 12" TEE TO 14" FLANGE	UT, PT	NS	705-107
C5.51	1E21-0037	14" PIPE TO 14" X 14" X 12" TEE	UT, PT	NS	705-107
C5.51	1E21-0038	14" ELBOW TO PIPE	UT, PT	NS	705-107
C5.51	1E21-0039	14" PIPE TO ELBOW	UT, PT	NS	705-106
C5.51	1E21-0040	14" FLANGE FE-0002 TO PIPE	UT, PT	NS	705-106
C5.51	1E21-0041	14" PIPE TO FLANGE FE-0002	UT, PT	NS	705-105
C5.51	1E21-0042	14" ELBOW TO PIPE	UT, PT	NS	705-105
C5.51	1E21-0043	14" PIPE TO ELBOW	UT, PT	NS	705-105
C5.51	1E21-0044	14" ELBOW TO PIPE	UT, PT	2	705-105
C5.51	1E21-0045	14" PIPE TO ELBOW	UT, PT	NS	705-104
C5.81	1E21-0046	14" PIPE TO 6" WELDOLET	UT, PT	NS	705-104
C5.51	1E21-0047	14" FLANGED VALVE TO PIPE	PT	1	705-104
C5.51	1E21-0048	14" PIPE TO FLANGED VALVE F003	UT, PT	NS	705-104
C5.81	1E21-0049	14" PIPE TO 6" WELDOLET	UT, PT	NS	705-104
C5.51	1E21-0050	14" ELBOW TO PIPE	PT	2	705-104
C5.51	1E21-0051	14" PIPE TO ELBOW	UT, PT	NS	705-102
C5.51	1E21-0052	16" X 14" REDUCER TO 14" PIPE	UT, PT	NS	705-102
C5.51	1E21-0053	16" FLANGE TO 16" X 14" REDUCER	UT, PT	NS	705-102
C5.51	1E21-0055	24" PIPE TO FLANGE	UT, PT	3	705-102
C5.51	1E21-0056	24" ELBOW TO PIPE	UT, PT	1	705-102
C5.51	1E21-0057	24" FLANGE TO ELBOW	UT, PT	NS	705-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E21-0058	24" PIPE SUCTION STRAINER D007 TO FLANGE	UT, PT	NS	705-102
C5.51	1E21-0059	24" FLANGE TO PIPE SUCTION STRAINER D007	UT, PT	NS	705-102
C5.51	1E21-0060	24" PIPE TO FLANGE	UT, PT	NS	705-102
C5.51	1E21-0061	24" X 24" X 16" TEE TO 24" PIPE	UT, PT	NS	705-102
C5.51	1E21-0062	24" PIPE TO 24" X 24" X 16" TEE	UT, PT	NS	705-102
C5.51	1E21-0063	24" ELBOW TO PIPE	UT, PT	NS	705-101
C5.51	1E21-0064	24" PIPE TO ELBOW	UT, PT	NS	705-101
C5.51	1E21-0065	24" ELBOW TO PIPE	UT, PT	NS	705-101
C5.51	1E21-0066	24" PIPE TO ELBOW	UT, PT	NS	705-101
C5.81	1E21-0067	24" PIPE TO 6" WELDOLET	PT	3	705-101
C5.51	1E21-0068	24" ELBOW TO PIPE	UT, PT	NS	705-101
C5.51	1E21-0069	24" PIPE TO ELBOW	UT, PT	3	705-101
C5.51	1E21-0070	24" ELBOW TO PIPE	UT, PT	NS	705-101
C5.51	1E21-0071	24" VALVE F001 TO ELBOW	UT, PT	NS	705-101
C5.51	1E21-0072	24" PIPE TO VALVE F001	UT, PT	NS	705-101
C5.51	1E21-0073	24" PEN. P103 PROCESS PIPE TO PIPE	UT, PT	NS	705-101
C5.51	1E21-0075	6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	705-108
C5.51	1E21-0076	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	705-108
C5.51	1E21-0077	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	705-108
C5.51	1E21-0078	6" PIPE TO VALVE F025E (<.375 NWT)	N/A	NS	705-108
C5.51	1E21-0079	14" X 14" X 12" TEE TO 12" ELBOW	UT, PT	NS	705-107
C5.51	1E21-0080	12" ELBOW TO VALVE F012	UT, PT	NS	705-107
C5.51	1E21-0081	6" ELBOW TO 6" WELDOLET (<.375 NWT)	N/A	NS	705-104
C5.51	1E21-0082	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	705-104
C5.51	1E21-0083	6" VALVE TO PIPE (<.375 NWT)	N/A	NS	705-104
C5.51	1E21-0084	6" ELBOW TO VALVE F004 (<.375 NWT)	N/A	NS	705-104
C5.51	1E21-0085	6" WELDOLET TO 6" PIPE (<.375 NWT)	N/A	NS	705-104
C5.51	1E21-0086	24" X 24" X 16" TEE TO 16" PIPE	UT, PT	2	705-102
C5.51	1E21-0087	16" PIPE TO ELBOW	UT, PT	NS	705-102
C5.51	1E21-0088	16" ELBOW TO PIPE	UT, PT	NS	705-102
C5.51	1E21-0089	16" PIPE TO PIPE	UT, PT	NS	705-102
C5.51	1E21-0090	16" PIPE TO ELBOW	UT, PT	NS	705-103
C5.51	1E21-0091	16" ELBOW TO PIPE	UT, PT	NS	705-103
C5.51	1E21-0092	16" PIPE TO FLANGE D005	UT, PT	NS	705-103
C5.51	1E21-0093	16" FLANGE D005 TO PIPE	UT, PT	NS	705-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E21-0094	16" PIPE TO FLANGE D006	UT, PT	NS	705-103
C5.51	1E21-0095	6" WELDOLET TO ELBOW (<.375 NWT)	N/A	NS	705-101
C5.51	1E21-0096	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	705-101
C5.51	1E21-0097	6" PIPE TO VALVE F008 (<.375 NWT)	N/A	NS	705-101
C5.51	1E21-0098	12" VALVE TO 12" X 12" REDUCING TEE	UT, PT	NS	705-107
C5.51	1E21-0098A	12" X 12" X 6" REDUCING 6" TEE TO 6" X 4" REDUCING ELBOW (<.375 NWT)	N/A	NS	705-107
C5.51	1E21-0099	12" X 12" X 6" REDUCING TEE TO FLANGE	UT, PT	NS	705-107
C5.51	1E21-0100	12" FLANGE TO PIPE	UT, PT	NS	705-107
C5.51	1E21-0101	12" PIPE TO FLANGED VALVE F501	UT, PT	NS	705-107
C5.51	1E22-0028	12" VALVE F004 TO ELBOW	UT, PT	NS	701-108
C5.51	1E22-0029	12" ELBOW TO 12" X 16" REDUCER	UT, PT	NS	701-108
C5.51	1E22-0030	12" X 15" REDUCER TO 16" PIPE	UT, PT	NS	701-108
C5.81	1E22-0031	16" PIPE TO 6" SWEEPolet	PT	3	701-108
C5.51	1E22-0032	16" PIPE TO ELBOW	UT, PT	NS	701-108
C5.51	1E22-0033	16" ELBOW TO FLANGE R0-D002	UT, PT	NS	701-108
C5.51	1E22-0034	16" FLANGE R0-D002 TO PIPE	UT, PT	NS	701-108
C5.51	1E22-0034A	16" PIPE TO ELBOW	UT, PT	NS	701-107
C5.51	1E22-0035	16" PIPE TO ELBOW	UT, PT	NS	701-107
C5.51	1E22-0036	16" ELBOW TO PIPE	UT, PT	NS	701-106
C5.51	1E22-0036A	16" PIPE TO PIPE	UT, PT	NS	701-106
C5.51	1E22-0037	16" PIPE TO ELBOW	UT, PT	NS	701-106
C5.51	1E22-0038	16" ELBOW TO PIPE	UT, PT	NS	701-106
C5.51	1E22-0039	16" PIPE TO ELBOW	UT, PT	NS	701-106
C5.51	1E22-0040	16" ELBOW TO PIPE	UT, PT	NS	701-106
C5.51	1E22-0041	16" PIPE TO 16" X 16" X 12" TEE	UT, PT	2	701-105
C5.51	1E22-0042	16" X 16" X 12" TEE TO 16" PIPE	UT, PT	NS	701-105
C5.51	1E22-0043	16" PIPE TO ELBOW	UT, PT	2	701-105
C5.51	1E22-0044	16" ELBOW TO PIPE	UT, PT	NS	701-105
C5.51	1E22-0045	16" PIPE TO FLANGE FE-N007	UT, PT	NS	701-105
C5.51	1E22-0046	16" PIPE TO FLANGE FE-N007	UT, PT	NS	701-104
C5.81	1E22-0047	16" PIPE TO 6" SWEEPolet	PT	NS	701-104
C5.51	1E22-0048	16" VALVE F024 TO PIPE	UT, PT	NS	701-104
C5.51	1E22-0049	16" PIPE TO VALVE F024	UT, PT	NS	701-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHE.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.81	1E22-0050	16" PIPE TO 6" WELDOLET.	PT	1	701-104
C5.51	1E22-0051	16" ELBOW TO PIPE	UT, PT	NS	701-104
C5.51	1E22-0052	16" PIPE TO ELBOW	UT, PT	NS	701-104
C5.51	1E22-0053	16" ELBOW TO PIPE	UT, PT	NS	701-103
C5.51	1E22-0054	16" PIPE TO ELBGW	UT, PT	NS	701-103
C5.51	1E22-0055	16" FLANGE TO PIPE	UT, PT	3	701-103
C5.51	1E22-0056	16" PIPE TO FLANGE	UT, PT	3	701-103
C5.51	1E22-0057	16" FLANGE DOO6 TO PIPE	UT, PT	NS	701-103
C5.51	1E22-0058	16" X 24" 24" TEE TO FLANGE DOO6	UT, PT	NS	701-103
C5.51	1E22-0059	24" PIPE TO 24" X 24" X 24" TEE	UT, PT	NS	701-103
C5.51	1E22-0059A	24" PIPE TO PIPE	UT, PT	NS	701-102
C5.51	1E22-0060	24" ELBOW TO PIPE	UT, PT	NS	701-102
C5.51	1E22-0061	24" PIPE TO ELBOW	UT, PT	NS	701-102
C5.51	1E22-0062	24" PIPE TO 6" WELDOLET	UT, PT	NS	701-102
C5.81	1E22-0063	24" X 24" X 12" TEE TO 24" PIPE	PT	NS	701-102
C5.51	1E22-0064	24" PIPE TO 24" X 24" X 12" TEE	UT, PT	NS	701-102
C5.51	1E22-0065	24" ELBOW TO PIPE	UT, PT	NS	701-102
C5.51	1E22-0066	24" PIPE TO ELBOW	UT, PT	NS	701-102
C5.51	1E22-0067	24" ELBOW TO PIPE	UT, PT	NS	701-102
C5.51	1E22-0068	24" PIPE TO ELBOW	UT, PT	NS	701-102
C5.51	1E22-0069	24" ELBOW TO PIPE	UT, PT	NS	701-102
C5.51	1E22-0070	24" PIPE TO ELBOW	UT, PT	NS	701-102
C5.51	1E22-0071	24" ELBOW TO PIPE	UT, PT	NS	701-101
C5.51	1E22-0072	24" FLANGE TO ELBOW	UT, PT	NS	701-101
C5.51	1E22-0073	24" PIPE TO FLANGE	UT, PT	NS	701-101
C5.51	1E22-0074	24" VALVE F015 TO PIPE	UT, PT	NS	701-101
C5.51	1E22-0075	24" PIPE TO VALVE F015	UT, PT	NS	701-101
C5.51	1E22-0077	24" ELBOW TO PIPE	UT, PT	NS	701-101
C5.51	1E22-0078	24" PENE. P401 PROCESS PIPE TO ELBOW	UT, PT	1	701-101
C5.51	1E22-0080	16" X 16" X 12" TEE TO 12" PIPE	UT, PT	NS	701-105
C5.51	1E22-0081	12" PIPE TO ELBOW	UT, PT	NS	701-105
C5.51	1E22-0082	12" ELBOW TO PIPE	UT, PT	NS	701-105
C5.51	1E22-0083	12" PIPE TO ELBOW	UT, PT	NS	701-105
C5.51	1E22-0084	12" ELBOW TO PIPE	UT, PT	NS	701-105
C5.51	1E22-0085	12" PIPE TO 12" X 12" X 12" TEE	UT, PT	NS	701-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E22-0086	12" X 12" X 12" TEE TO 12" PIPE	UT, PT	NS	701-105
C5.51	1E22-0087	12" PIPE TO ELBOW	UT, PT	3	701-105
C5.51	1E22-0088	12" ELBOW TO PIPE	UT, PT	NS	701-105
C5.51	1E22-0088A	12" PIPE TO PIPE	UT, PT	NS	701-112
C5.51	1E22-0089	12" PIPE TO ELBOW	UT, PT	NS	701-112
C5.51	1E22-0090	12" ELBOW TO PIPE	UT, PT	NS	701-113
C5.51	1E22-0091	12" PIPE TO VALVE F023	UT, PT	NS	701-113
C5.51	1E22-0104	6" SWEEPolet TO 6" PIPE	UT, PT	NS	701-108
C5.51	1E22-0105	6" PIPE TO ELBOW	UT, PT	2	701-108
C5.51	1E22-0106	6" ELBOW TO PIPE	UT, PT	NS	701-108
C5.51	1E22-0107	6" PIPE TO VALVE F003	UT, PT	NS	701-108
C5.51	1E22-0108	6" PIPE TO 6" SWEEPolet	UT, PT	NS	701-104
C5.51	1E22-0109	6" ELBOW TO PIPE	UT, PT	NS	701-104
C5.51	1E22-0110	6" PIPE TO ELBOW	UT, PT	2	701-104
C5.51	1E22-0111	6" VALVE F026 TO PIPE	UT, PT	NS	701-104
C5.51	1E22-0112	6" PIPE TO VALVE F026	UT, PT	NS	701-104
C5.51	1E22-0113	6" ELBOW TO PIPE	UT, PT	NS	701-104
C5.51	1E22-0114	6" X 6" X 4" REDUCING TEE TO ELBOW	UT, PT	NS	701-104
C5.51	1E22-0115	6" SWEEPolet TO 6" X 6" X 4" REDUCING TEE	UT, PT	NS	701-104
C5.51	1E22-0116	24" X 24" X 24" TEE TO 24" X 16" REDUCER	UT, PT	NS	701-104
C5.51	1E22-0117	24" X 16" REDUCER TO 16" PIPE	UT, PT	NS	701-103
C5.51	1E22-0118	16" PIPE TO FLANGED VALVE F002	UT, PT	NS	701-103
C5.51	1E22-0119	16" FLANGED VALVE F002 TO PIPE	UT, PT	NS	701-103
C5.51	1E22-0120	16" PIPE TO VALVE F001	UT, PT	NS	701-103
C5.51	1E22-0121	16" WELDLET TO ELBOW (<.375 NWT)	UT, PT	NS	701-103
C5.51	1E22-0122	16" ELBOW TO PIPE (<.375 NWT)	N/A	NS	701-102
C5.51	1E22-0123	16" PIPE TO VALVE F019 (<.375 NWT)	N/A	NS	701-102
C5.51	1E22-0124	24" X 24" X 12" TEE TO PIPE (<.375 NWT)	N/A	NS	701-102
C5.51	1E22-0124A	12" PIPE TO ELBOW	UT, PT	NS	701-102
C5.51	1E22-0124B	12" ELBOW TO FLANGED VALVE G42F010	UT, PT	NS	701-102
C5.51	1E22-0125	12" X 12" X 12" TEE TO 12" X 10" REDUCER	UT, PT	NS	701-102
C5.51	1E22-0126	12" X 10" REDUCER TO VALVE F010	UT, PT	NS	701-105
C5.51	1E22-0127	6" VALVE F003 TO 6" PIPE	UT, PT	NS	701-105
C5.51	1E22-0128	6" PIPE TO VALVE F031	UT, PT	NS	701-108
C5.51	1E22-0131	12" FLANGED VALVE G42F010 TO 12" PIPE	UT, PT	2	701-108

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-P-2					
CS.51	1E22-0132	12" VALVE F010 TO 10" PIPE	UT, PT	NS	701-105
CS.51	1E22-0133	10" PIPE TO VALVE F011	UT, PT	NS	701-105
CS.51	1E22-0134	12" PIPE TO FLANGED VALVE G42F020	UT, PT	NS	701-102
CS.51	1E51-0031	6" VALVE F013 TO PIPE	UT, PT	1	631-105
CS.51	1E51-0032	6" PIPE TO ELBOW	UT, PT	NS	631-105
CS.51	1E51-0033	6" ELBOW TO PIPE	UT, PT	NS	631-105
CS.51	1E51-0034	6" PIPE TO ELBOW	UT, PT	2	631-103
CS.51	1E51-0035	6" ELBOW TO PIPE	UT, PT	NS	631-103
CS.51	1E51-0036	6" PIPE TO ELBOW	UT, PT	NS	631-103
CS.51	1E51-0037	6" ELBOW TO PIPE	UT, PT	NS	631-103
CS.51	1E51-0038	6" PIPE TO TEE	UT, PT	NS	631-102
CS.51	1E51-0039	6" TEE TO PIPE	UT, PT	3	631-102
CS.51	1E51-0040	6" TEE TO 6" X 4" REDUCER	UT, PT	NS	631-102
CS.51	1E51-0042	6" PIPE TO FLANGE PE-N001	UT, PT	NS	631-102
CS.51	1E51-0043	6" FLANGE PE-NL PIPE	UT, PT	NS	631-102
CS.51	1E51-0044	5" PIPE TO ELBOW	UT, PT	NS	631-102
CS.51	1E51-0045	6" ELBOW TO PIPE	UT, PT	NS	631-102
CS.51	1E51-0046	6" PIPE TO ELBOW	UT, PT	NS	631-102
CS.51	1E51-0047	6" ELBOW TO PIPE	UT, PT	NS	631-102
CS.51	1E51-0048	6" PIPE TO ELBOW	UT, PT	NS	631-102
CS.51	1E51-0049	6" ELBOW TO PIPE	UT, PT	NS	631-102
CS.51	1E51-0050	6" PIPE TO VALVE F502	UT, PT	NS	631-102
CS.51	1E51-0051	5" VALVE F502 TO FLANGE	UT, PT	3	631-102
CS.51	1E51-0052	6" FLANGE TO STRAINER D025 (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0053	6" STRAINER D025 TO FLANGE (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0054	6" FLANGE TO ELBOW (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0055	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0056	6" PIPE TO VALVE F501 (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0057	6" VALVE F501 TO PIPE (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0058	6" PIPE TO 6" X 6" X 4" TEE (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0059	6" TEE TO FLANGED VALVE F577 (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0060	6" TEE TO PIPE (<.375 NWT)	N/A	NS	631-110
CS.51	1E51-0061	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	631-111
CS.51	1E51-0062	5" ELBOW TO PIPE (<.375 NWT)	N/A	NS	631-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E51-0062A	6" PIPE TO PIPE (<.375 NWT)	N/A	NS	631-111
C5.51	1E51-0062B	6" PIPE TO PIPE (<.375 NWT)	N/A	NS	631-111
C5.51	1E51-0063	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	631-111
C5.51	1E51-0064	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	631-111
C5.51	1E51-0065	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0066	6" ELBOW TO FLANGED VALVE P030 (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0067	6" FLANGED VALVE P030 TO PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0068	6" PIPE TO VALVE P031 (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0069	6" VALVE P031 TO PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0070	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0071	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0072	6" PIPE TO ELBOW (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0073	6" ELBOW TO PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0073A	6" PIPE TO PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0074	6" PIPE TO PENE. P101 PROCESS PIPE (<.375 NWT)	N/A	NS	631-112
C5.51	1E51-0075	6" PIPE TO FLANGED VALVE P011 (<.375 NWT)	N/A	NS	631-110
C5.51	1E51-0076	6" FLANGED VALVE P011 TO PIPE (<.375 NWT)	N/A	NS	631-110
C5.51	1E51-0077	6" VALVE P010 TO PIPE (<.375 NWT)	N/A	NS	631-110
C5.51	1E51-0078	6" FLANGED VALVE P577 TO 6" X 6" X 4" TEE (<.375 NWT)	N/A	NS	631-110
C5.51	1E51-0079	6" TEE TO PIPE (<.375 NWT)	N/A	NS	631-110
C5.51	1E51-0088	12" PIPE TO VALVE P064	UT, PT	NS	632-103
C5.51	1E51-0089	12" FLANGED VALVE P040 TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0090	12" ELBOW TO FLANGED VALVE P040	UT, PT	NS	632-103
C5.51	1E51-0091	12" PIPE TO ELBOW	UT, PT	NS	632-103
C5.51	1E51-0092	12" ELBOW TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0093	12" PIPE TO ELBOW	UT, PT	NS	632-103
C5.51	1E51-0093A	12" PIPE TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0094	12" ELBOW TO PIPE	UT, PT	NS	632-104
C5.51	1E51-0095	12" PIPE TO ELBOW	UT, PT	NS	632-104
C5.51	1E51-0096	12" PIPE BEND TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0097	8" X 12" X 12" TEE TO 12" PIPE BEND	UT, PT	3	632-103
C5.51	1E51-0097A	8" X 12" X 12" TEE TO 12" PIPE	UT, PT	NS	632-103
C5.51	1E51-0098	12" X 12" X 12" TEE TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0099	12" PIPE TO TEE	UT, PT	2	632-103
C5.51	1E51-0100	12" CAP TO PIPE	UT, PT	NS	632-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1E51-0101	12" PIPE TO TEE	UT, PT	NS	632-103
C5.51	1E51-0102	8" X 12" REDUCING ELBOW TO 12" PIPE	UT, PT	1	632-103
C5.51	1E51-0103	8" FLANGE TO 8" X 12" REDUCING ELBOW	UT, PT	NS	632-103
C5.51	1E51-0104	12" X 8" TEE TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0105	8" PIPE TO RUPTURE DISC D001	UT, PT	NS	632-103
C5.51	1E51-0106	8" RUPTURE DISC D001 TO 8" PIPE	UT, PT	NS	632-103
C5.51	1E51-0107	8" PIPE TO RUPTURE DISC D002	UT, PT	NS	632-103
C5.51	1E51-0118	10" PIPE TO TEE	UT, PT	NS	632-162
C5.51	1E51-0119	10" VALVE F064 TO PIPE	UT, PT	NS	632-102
C5.51	1E51-0130	12" CAP TO PIPE	UT, PT	NS	632-103
C5.51	1E51-0131	12" PIPE TO CAP	UT, PT	NS	632-103
C5.51	1G33-0114	6" VALVE F040 TO PENETRATION P132 PROCESS PIPE	UT, PT	1	672-102
C5.51	1G33-0115	6" PENE. P132 PROCESS PIPE TO VALVE F039	UT, PT	2	672-102
C5.51	1G33-0116	6" VALVE F039 TO PIPE	UT, PT	NS	672-102
C5.51	1G33-0117	6" PIPE TO FLANGE FE N040	UT, PT	NS	672-102
C5.51	1G33-0118	6" FLANGE FE N040 TO PIPE	UT, PT	NS	672-102
C5.51	1G33-0119	6" PIPE TO ELBOW	UT, PT	NS	672-102
C5.51	1G33-0120	6" ELBOW TO PIPE	UT, PT	NS	672-102
C5.51	1G33-0121	6" X 6" X 6" TEE TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0122	6" X 6" X 6" TEE TO VALVE F051A	UT, PT	3	672-101
C5.51	1G33-0123	6" VALVE F051A TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0124	6" PIPE TO ELBOW	UT, PT	NS	672-101
C5.51	1G33-0125	6" ELBOW TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0126	6" PIPE TO VALVE F052A	UT, PT	NS	672-101
C5.51	1G33-0127	6" VALVE F052A TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0128	6" PIPE TO ELBOW	UT, PT	NS	672-101
C5.51	1G33-0129	6" ELBOW TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0130	6" PIPE TO ELBOW	UT, PT	NS	672-101
C5.51	1G33-0131	6" ELBOW TO WELDOLET	UT, PT	NS	672-101
C5.51	1G33-0132	6" PIPE TO TEE	UT, PT	NS	672-101
C5.51	1G33-0132A	6" PIPE TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0133	6" VALVE F051B TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0134	6" ELBOW TO VALVE F051B	UT, PT	NS	672-101
C5.51	1G33-0135	6" PIPE TO ELBOW	UT, PT	NS	672-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-F-2					
C5.51	1G33-0136	6" ELBOW TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0137	6" PIPE TO ELBOW	UT, PT	NS	672-101
C5.51	1G33-0138	6" VALVE F052B TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0139	6" PIPE TO VALVE F052B	UT, PT	NS	672-101
C5.51	1G33-0140	6" ELBOW TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0141	6" PIPE TO ELBOW	UT, PT	NS	672-101
C5.51	1G33-0142	6" ELBOW TO PIPE	UT, PT	NS	672-101
C5.51	1G33-0143	6" WELDOLET TO ELBOW	UT, PT	NS	672-101

C5.51	1N27-0010	20" PIPE TO VALVE F032A	UT, PT	NS	082-101
C5.51	1N27-0010A	20" PIPE TO PIPE	UT, PT	2	082-101
C5.51	1N27-0011	20" X 20" X 14" TEE TO 20" PIPE	UT, PT	NS	082-101
C5.51	1N27-0011A	20" X 20" X 14" TEE TO 14" X 12" REDUCER	UT, PT	NS	082-101
C5.51	1N27-0012	20" PIPE TO 20" X 20" X 14" TEE	UT, PT	NS	082-101
C5.51	1N27-0013	20" VALVE F065A TO PIPE	UT, PT	NS	082-101
C5.51	1N27-0014	20" PIPE TO VALVE F065A	UT, PT	NS	082-101
C5.51	1N27-0024	20" PIPE TO VALVE F032B	UT, PT	NS	082-104
C5.51	1N27-0024A	20" PIPE TO PIPE	UT, PT	NS	082-104
C5.51	1N27-0025	20" X 20" X 14" TEE TO 20" PIPE	UT, PT	3	082-104
C5.51	1N27-0025A	20" X 20" X 14" TEE TO 14" X 12" REDUCER	UT, PT	NS	082-104
C5.51	1N27-0026	20" PIPE TO 20" X 20" X 14" TEE	UT, PT	NS	082-104
C5.51	1N27-0027	20" VALVE F065B TO PIPE	UT, PT	NS	082-104
C5.51	1N27-0028	20" PIPE TO VALVE F065A	UT, PT	NS	082-104

EXAMINATION CATEGORY: C-G

C6.10	1E12-C002A-001	DISHED HEAD TO BARREL SHELL #1	MT	SR*	641-120
C6.10	1E12-C002A-002	BARREL SHELL #1 TO BARREL SHELL #2	MT	SR*	641-120
C6.10	1E12-C002A-003	BARREL SHELL #3 TO BARREL FLANGE	MT	SR*	641-120
C6.10	1E12-C002A-004	HEAD FLANGE TO HEAD SHELL	MT	3	641-120
C6.10	1E12-C002A-005	18" DISCHARGE FLANGE TO 18" DISCHARGE PIPE	MT	3	641-120
C6.10	1E12-C002A-006	24" SUCTION FLANGE TO 24" DISCHARGE PIPE	PT	1	641-120
C6.10	1E12-C002A-007	18" DISCHARGE PIPE TO HEAD SHELL	MT	2	641-120
C6.10	1E12-C002A-008	24" SUCTION PIPE TO HEAD SHELL	PT	1	641-120
C6.10	1E12-C002A-009	HEAD SHELL TO HEAD COVER	MT	2	641-120

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: C-G					
C6.10	1E12-C002A-010	HEAD SHELL LONGITUDINAL SEAM	MT	3	641-120
C6.10	1E12-C002A-011	24" SUCTION PIPE LONGITUDINAL SEAM	PT	1	641-120
C6.10	1E12-C002A-012	BARREL SHELL #2 TO BARREL SHELL #3	MT	SR*	641-120
C6.10	1E12-C002A-013	BARREL SHELL #1 LONGITUDINAL SEAM	MT	SR*	641-120
C6.10	1E12-C002A-014	BARREL SHELL #2 LONGITUDINAL SEAM	MT	SR*	641-120
C6.10	1E12-C002A-015	BARREL SHELL #3 LONGITUDINAL SEAM	MT	SR*	641-120
C6.10	1E12-C002B-001	DISHED HEAD TO BARREL SHELL #1	MT	NS	641-123
C6.10	1E12-C002B-002	BARREL SHELL #1 TO BARREL SHELL #2	MT	NS	641-123
C6.10	1E12-C002B-003	BARREL SHELL #3 TO BARREL FLANGE	MT	NS	641-123
C6.10	1E12-C002B-004	HEAD FLANGE TO HEAD SHELL	MT	NS	641-123
C6.10	1E12-C002B-005	18" DISCHARGE FLANGE TO 18" DISCHARGE PIPE	MT	NS	641-123
C6.10	1E12-C002B-006	24" SUCTION FLANGE TO 24" DISCHARGE PIPE	MT	NS	641-123
C6.10	1E12-C002B-007	18" DISCHARGE PIPE TO HEAD SHELL	MT	NS	641-123
C6.10	1E12-C002B-008	24" SUCTION PIPE TO HEAD SHELL	MT	NS	641-123
C6.10	1E12-C002B-009	HEAD SHELL TO HEAD COVER	MT	NS	641-123
C6.10	1E12-C002B-010	HEAD SHELL LONGITUDINAL	MT	NS	641-123
C6.10	1E12-C002B-011	24" SUCTION PIPE LONGITUDINAL SEAM	MT	NS	641-123
C6.10	1E12-C002B-012	BARREL SHELL #2 TO BARREL SHELL #3	MT	NS	641-123
C6.10	1E12-C002B-013	BARREL SHELL #1 LONGITUDINAL SEAM	MT	NS	641-123
C6.10	1E12-C002B-014	BARREL SHELL #2 LONGITUDINAL SEAM	MT	NS	641-123
C6.10	1E12-C002B-015	BARREL SHELL #3 LONGITUDINAL SEAM	MT	NS	641-123
C6.10	1E12-C002C-001	DISHED HEAD TO BARREL SHELL #1	MT	SR*	643-122
C6.10	1E12-C002C-002	BARREL SHELL #1 TO BARREL SHELL #2	MT	SR*	643-122
C6.10	1E12-C002C-003	BARREL SHELL #3 TO BARREL FLANGE	MT	SR*	643-122
C6.10	1E12-C002C-004	HEAD FLANGE TO HEAD SHELL	MT	3	643-122
C6.10	1E12-C002C-005	18" DISCHARGE FLANGE TO 18" DISCHARGE PIPE	PT	1	643-122
C6.10	1E12-C002C-006	24" SUCTION FLANGE TO 24" DISCHARGE PIPE	MT	2	643-122
C6.10	1E12-C002C-007	18" DISCHARGE PIPE TO HEAD SHELL	MT	2	643-122
C6.10	1E12-C002C-008	24" SUCTION PIPE TO HEAD SHELL	MT	2	643-122
C6.10	1E12-C002C-009	HEAD SHELL TO HEAD COVER	MT	3	643-122
C6.10	1E12-C002C-010	HEAD SHELL LONGITUDINAL	MT	3	643-122
C6.10	1E12-C002C-011	24" SUCTION PIPE LONGITUDINAL SEAM	MT	2	643-122
C6.10	1E12-C002C-012	BARREL SHELL #2 TO BARREL SHELL #3	MT	SR*	643-122

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: C-G					
C6.10	1E12-C002C-013	BARREL SHELL #1 LONGITUDINAL SEAM	MT	SR*	643-122
C6.10	1E12-C002C-014	BARREL SHELL #2 LONGITUDINAL SEAM	MT	SR*	643-122
C6.10	1E12-C002C-015	BARREL SHELL #3 LONGITUDINAL SEAM	MT	SR*	643-122
C6.10	1E21-C001-001	DISHED HEAD TO BARREL SHELL #1	MT	SR*	705-113
C6.10	1E21-C001-002	BARREL SHELL #1 TO BARREL SHELL #2	MT	SR*	705-113
C6.10	1E21-C001-003	BARREL SHELL #3 TO BARREL FLANGE	MT	SR*	705-113
C6.10	1E21-C001-004	HEAD FLANGE TO HEAD SHELL	PT	1	705-113
C6.10	1E21-C001-005	16" DISCHARGE FLANGE TO 16" DISCHARGE PIPE	MT	2	705-113
C6.10	1E21-C001-006	16" DISCHARGE PIPE TO HEAD SHELL	MT	2	705-113
C6.10	1E21-C001-007	24" SUCTION FLANGE TO 24" SUCTION PIPE	MT	3	705-113
C6.10	1E21-C001-008	24" SUCTION PIPE TO HEAD SHELL	MT	3	705-113
C6.10	1E21-C001-009	HEAD SHELL TO HEAD COVER	MT	2	705-113
C6.10	1E21-C001-010	HEAD SHELL LONGITUDINAL SEAM	MT	3	705-113
C6.10	1E21-C001-011	24" SUCTION PIPE LONGITUDINAL SEAM	PT	1	705-113
C6.10	1E21-C001-012	BARREL SHELL #2 TO BARREL SHELL #3	MT	SR*	705-113
C6.10	1E21-C001-013	BARREL SHELL #1 LONGITUDINAL SEAM	MT	SR*	705-113
C6.10	1E21-C001-014	BARREL SHELL #2 LONGITUDINAL SEAM	MT	SR*	705-113
C6.10	1E21-C001-015	BARREL SHELL #3 LONGITUDINAL SEAM	MT	SR*	705-113
C6.10	1E22-C001-001	DISHED HEAD TO BARREL SHELL #1	MT	SR*	701-114
C6.10	1E22-C001-002	BARREL SHELL #1 TO BARREL SHELL #2	MT	SR*	701-114
C6.10	1E22-C001-003	BARREL SHELL #2 TO BARREL SHELL #3	MT	SR*	701-114
C6.10	1E22-C001-004	BARREL SHELL #3 TO SHELL FLANGE	MT	SR*	701-114
C6.10	1E22-C001-005	HEAD FLANGE TO HEAD SHELL	MT	2	701-114
C6.10	1E22-C001-006	16" DISCHARGE FLANGE TO 16" DISCHARGE PIPE	PT	1	701-114
C6.10	1E22-C001-007	16" DISCHARGE PIPE TO HEAD SHELL	PT	1	701-114
C6.10	1E22-C001-008	24" SUCTION FLANGE TO SUCTION PIPE	MT	3	701-114
C6.10	1E22-C001-009	24" SUCTION PIPE TO HEAD SHELL	MT	3	701-114
C6.10	1E22-C001-010	HEAD SHELL TO HEAD COVER	MT	3	701-114
C6.10	1E22-C001-011	HEAD SHELL LONGITUDINAL SEAM	MT	2	701-114
C6.10	1E22-C001-012	24" SUCTION PIPE LONGITUDINAL SEAM	MT	3	701-114
C6.10	1E22-C001-013	BARREL SHELL #1 LONGITUDINAL SEAM	MT	SR*	701-114
C6.10	1E22-C001-014	BARREL SHELL #2 LONGITUDINAL SEAM	MT	SR*	701-114
C6.10	1E22-C001-015	BARREL SHELL #3 LONGITUDINAL SEAM	MT	SR*	701-114

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Inservice Examination Internal Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 85-305-</u>
EXAMINATION CATEGORY: C-G					
C6.10	1E22-C001-016	16" DISCHARGE PIPE LONGITUDINAL SEAM	PT	1	701-114
C6.10	1E51-C001-001	RCIC PUMP CASING TO FLANGE (DISCHARGE)	PT	2	631-109
C6.10	1E51-C001-002	RCIC PUMP CASING TO SUCTION NOZZLE	PT	3	631-109
C6.10	1E51-C001-003	6" SUCTION NOZZLE TO ELBOW	PT	1	631-109
C6.10	1E51-C001-004	6" ELBOW TO FLANGE	PT	2	631-109
C6.20	1E22-F003-SEAM	6" CHECK VALVE BODY WELD	PT	2	701-114
C6.20	1E22-F026-SEAM	6" GATE VALVE BODY WELD	PT	3	701-114
C6.20	1E51-F502-SEAM	6" GATE VALVE BODY WELD	PT	3	631-109

\*Not scheduled due to inaccessibility (see relief request IR-013), but should access be provided by maintenance or repair the welds shall be examined.

EXAMINATION CATEGORY: C-H

C7.10	PRESSURE VESSELS	SYSTEM PRESSURE TEST	VT-2	1,2	
C7.20	PRESSURE VESSELS	SYSTEM HYDROSTATIC TEST	VT-2	3	
C7.30	PIPING	SYSTEM PRESSURE TEST	VT-2	1,2	
C7.40	PIPING	SYSTEM HYDROSTATIC TEST	VT-2	3	
C7.50	PUMPS	SYSTEM PRESSURE TEST	VT-2	1,2	
C7.60	PUMPS	SYSTEM HYDROSTATIC TEST	VT-2	3	
C7.70	VALVES	SYSTEM PRESSURE TEST	VT-2	1,2	
C7.80	VALVES	SYSTEM HYDROSTATIC TEST	VT-2	3	

#### 4.0 IWD (CLASS 3) EXAMINATIONS

Class 3 examination categories are identifiable by a 'D' as the first assigned letter and are as follows:

Examination Category	Examination Area (Examination Method)
D-A	Systems in Support of Reactor Shutdown Function (VT-2, VT-3)
D-B	Systems in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal (VT-2, VT-3)
D-C	Systems in Support of Residual Heat Removal from Spent Fuel Storage Pool (VT-2, VT-3)

#### 4.1 Exemptions

The following components are exempted from their respective examination requirements.

1. Integral attachments of supports and restraints to components that are 4 inch NPS and smaller are exempt from visual examination (VT-3).
2. Integral attachments of supports and restraints to components exceeding 4 inch NPS may be exempted from visual examination (VT-3) providing that they meet the following criteria:
  - a. The components are located in systems whose function is not required in support of reactor residual heat removal, containment heat removal, or emergency core cooling; and
  - b. The components operate at a pressure of 275 psig or less and at a temperature of 200°F or less.

#### 4.2 Examination Selection Process

##### Systems In Support of Reactor Shutdown Function

1. Code Item Number: D1.10  
System Pressure Test and System Hydrostatic Test
2. Code Item Number: D1.20  
Integral Attachment-Component Supports and Restraints
3. Code Item Number: D1.30  
Integral Attachment-Mechanical and Hydraulic Snubbers
4. Code Item Number: D1.40  
Integral Attachment-Spring Type Supports

5. Code Item Number: D1.50  
Integral Attachment-Constant Load Type Supports

6. Code Item Number: D1.60  
Integral Attachment-Shock Absorbers

Systems In Support of Emergency Core Cooling, Containment Heat Removal,  
Atmosphere Cleanup, and Reactor Residual Heat Removal

1. Code Item Number: D2.10  
System Pressure Test and System Hydrostatic Test

2. Code Item Number: D2.20  
Integral Attachment-Component Supports and Restraints

3. Code Item Number: D2.30  
Integral Attachment-Mechanical and Hydraulic Snubbers

4. Code Item Number: D2.40  
Integral Attachment-Spring Type Supports

5. Code Item Number: D2.50  
Integral Attachment-Constant Load Type Supports

6. Code Item Number: D2.60  
Integral Attachment-Shock Absorbers

Systems In Support of Residual Heat Removal From Spent Fuel Storage Pool

1. Code Item Number: D3.10  
System Pressure Test and System Hydrostatic Test

2. Code Item Number: D3.20  
Integral Attachment-Component Supports and Restraints

3. Code Item Number: D3.30  
Integral Attachment-Mechanical and Hydraulic Snubbers

4. Code Item Number: D3.40  
Integral Attachment-Spring Type Supports

5. Code Item Number: D3.50  
Integral Attachment-Constant Load Type Supports

6. Code Item Number: D3.60  
Integral Attachment-Shock Absorbers

#### 4.3 Additional Examinations

Additional examinations are required to increase the scope of components being examined to assure similar items do not have a common or generic problem/defect. Additional examination requirements are unique because of the different component selection for examination process.

Examinations revealing indications exceeding the acceptance standards shall be extended to include additional examinations during the outage. The additional examinations shall include an additional number of welds equal to 20% of the original welds scheduled for inspection during the outage.

Additional examinations revealing indications exceeding the acceptance standards shall be further extended to include additional examinations during the outage. The additional examinations shall include all the welds scheduled for examination during the inspection interval.

#### 4.4 Successive Examinations

The components with flaw indications in Class 3 systems qualifying as conditionally acceptable for continued service will be scheduled for re-examination during the next inspection period.

Flaw indication which remain essentially unchanged for the next inspection period will revert to the original schedule of successive inspections.

#### 4.5 Relief Requests

When compliance to Code examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for components subject to the examination requirements of ASME Section XI, Article IWD:

IR NO.

IR-021 R-1

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-021, Rev. 1

I. Identification of Components

Class 3, Category D-B, Item D2.20, Integral Attachment: Component supports and restraints. (See attached table for component identification).

II. ASME B&PV Section XI Requirements

Table IWD-2500-1 requires a VT-3 visual examination.

III. Relief Requested

Relief is requested from the required visual examination due to the inaccessibility of the components.

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. All welds were inspected in accordance with the appropriate Code requirements. Weld techniques and welders were qualified in accordance with Code requirements and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

Complete examinations meeting the requirements of the ASME Code Section XI were performed on integral attachments with similar configurations which utilized the same weld techniques, procedures and materials.

Since the construction and operating conditions of the inaccessible welded attachments are similar to that of welded attachments that were examined, it is reasonable to extend the satisfactory results of the accessible integral attachments to the inaccessible ones.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and the plant has operated for the total of about 712 equivalent full power days between November 1987 and December 1990.

In summary, because of acceptable initial condition, successful examinations of similar components, and successful test and operating experience, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

No.

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./ISI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
D2.20	1B21-H0050-WA	Main Steam SS-305-605-115	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1E21-H0157-WA	Main Steam SS-305-605-177	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0167-WA	Main Steam SS-305-605-126	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0179-WA	Main Steam SS-305-605-124	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1P42-H0221-WA	Emer. Closed Cool. SS-305-621-104	Welded Lugs for Pipe Support	Lugs in Penetration Filled w/Sealant	0%
D2.20	1P45-H0643-WA	Emer. Service Wtr. SS-305-791-110	Welded Lugs for Pipe Support	Lugs in Penetration Filled w/Grout	0%
D2.20	2P42-H0009-WA	Emer. Closed Cool. SS-305-623-106	Welded Lugs for Pipe Support	Two of Four Lugs in Penetration Filled w/Sealant	75%
D2.20	1B21-H0176-WA	Main Steam SS-305-605-130	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0128-WA	Main Steam SS-305-605-129	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0156-WA	Main Steam SS-305-605-128	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0158-WA	Main Steam SS-305-605-125	Welded Lugs for Pipe Support	Underwater, Geometry	0%

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Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-021, Rev. 1

ITEM NO.	COMPONENT I.D.	SYS./ISI ISO	DESCRIPTION	NATURE OF OBSTRUCTION	EST % COMPLETE
D2.20	1B21-H0173-WA	Main Steam SS-305-605-123	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0175-WA	Main Steam SS-305-605-133	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0155-WA	Main Steam SS-305-605-111	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0168-WA	Main Steam SS-305-605-113	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0120-WA	Main Steam SS-305-605-114	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0159-WA	Main Steam SS-305-605-121	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0160-WA	Main Steam SS-305-605-120	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0186-WA	Main Steam SS-305-605-119	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0177-WA	Main Steam SS-305-605-118	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0163-WA	Main Steam SS-305-605-117	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1B21-H0164-WA	Main Steam SS-305-605-116	Welded Lugs for Pipe Support	Underwater, Geometry	0%
D2.20	1G41-H0396-WA	Fuel Pool Cleaning SS-305-655-114	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%

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Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #1N-021, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./ISI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF CONSTRUCTION</u>	<u>EST % COMPLETE</u>
E2.20	1P42-H0115-WA	Emer. Closed Cool. SS-305-621-107	Welded Lugs for Pipe Support	Two of four Lugs in Pene. Filled w/Sealant	50%
D2.20	1P42-H0222-WA	Emer. Closed Cool. SS-305-621-104	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%
D2.20	1P45-H0022-WA	Emer. Service Wtr. SS-305-792-106	Welded Stanchion of Pipe Support	Stanchion in Pene. Filled w/Sealant	0%
D2.20	1P45-H0049-WA	Emer. Service Wtr. SS-305-792-112	Welded Sleeve of Pipe Support	Sleeve in Pene. Filled w/Sealant	0%
D2.20	1P45-H0127-WA	Emer. Service Wtr. SS-305-792-107	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%
D2.20	1P45-H0191-WA	Emer. Service Wtr. SS-305-791-113	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%
D2.20	1P45-H0271-WA	Emer. Service Wtr. SS-305-791-104	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%
D2.20	1P45-H0417-WA	Emer. Service Wtr. SS-305-791-101	Welded Lugs for Pipe Support	Lugs in Pene. Filled w/Sealant	0%
D2.20	2P42-H0024-WA	Emer. Closed Cool. SS-305-623-112	Welded Lugs for Pipe Support	Two of Six Lugs in Pene. Filled w/Sealant	66%
D2.20	2P42-H0025-WA	Emer. Closed Cool. SS-305-623-110	Welded Lugs for Pipe Support	Two of Six Lugs in Pene. Filled w/Sealant	66%

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#### 4.6 Inservice Examination Table

This column contains the listing of all Class 3 components subject to the examination requirements of ASME Section XI, Article IWD. This listing is for reference purposes only. The actual components scheduled for examinations are presented to management for approval 60 days prior to commencing a scheduled refueling outage.

The information presented in the tables are defined below:

1. EXAMINATION CATEGORY - The basis for organizing components subject to examination.
2. ITEM NO. - A division within an examination category which separates the specific examination requirements.
3. MARK NO. - A unique identification number assigned to each weld or component.
4. COMPONENT DESCRIPTION - A brief description used to identify the weld or component.
5. EXAM METHOD - This abbreviation identifies the unique non-destructive examination method(s) required for the weld or component. The abbreviations used in this listing are as follows:
  - VT-1 - Visual Examination for Surface Conditions
  - VT-2 - Visual Examination for Leakage
  - VT-3 - Visual Examination for General Conditions
6. PERIOD SCHED. - This column identifies the inspection period which the weld or component is tentatively scheduled to receive examination. The period scheduled can be either 1, 2, 3, or any combination of these numbers. For those welds or components not scheduled for examination, the letters "NS" will be inserted in place of an inspection period. An asterisk(s) in the schedule column denotes a scheduling peculiarity which will be explained at the end of the applicable category.

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-309-</u>
EXAMINATION CATEGORY: D-A					
D1.10		System Pressure Test	VT-2	1,2	
D1.10		System Hydrostatic Test	VT-2	3	
D1.20		Not Applicable To PNPP			
D1.40		Not Applicable To PNPP			
D1.50		Not Applicable To PNPP			
D1.60		Not Applicable To PNPP			
EXAMINATION CATEGORY: D-B					
D2.10		System Pressure Test	VT-2	1,2	
D2.10		System Hydrostatic Test	VT-2	3	
D2.20	1B21-B0101A-WA	Integral Attachment Rigid Strut	VT-3	1	605-128
D2.20	1B21-B0101B-WA	Integral Attachment Rigid Strut	VT-3	1	605-112
D2.20	1B21-B0101C-WA	Integral Attachment Rigid Strut	VT-3	2	605-122
D2.20	1B21-B0101D-WA	Integral Attachment Rigid Strut	VT-3	3	605-116
D2.20	1B21-B0102B-WA	Integral Attachment Rigid Strut	VT-3	3	605-120
D2.20	1B21-B0102C-WA	Integral Attachment Rigid Strut	VT-3	3	605-127
D2.20	1B21-B0103B-WA	Integral Attachment Rigid Strut	VT-3	3	605-121
D2.20	1B21-B0103C-WA	Integral Attachment Rigid Strut	VT-3	3	605-125
D2.20	1B21-H0001-WA	Integral Attachment Anchor	VT-3	1	605-128
D2.30	1B21-H0006-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-128
D2.30	1B21-H0007-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-128
D2.30	1B21-H0010-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-127
D2.20	1B21-H0011-WA	Integral Attachment Anchor	VT-3	3	605-127
D2.30	1B21-H0013-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-127
D2.20	1B21-H0016-WA	Integral Attachment Anchor	VT-3	1	605-125
D2.30	1B21-H0020-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-125

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.30	1B21-H0021-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-125
D2.30	1B21-H0023-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-125
D2.30	1B21-H0025-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-113
D2.20	1B21-H0026-WA	Integral Attachment Anchor	VT-3	3	605-121
D2.30	1B21-H0029-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-121
D2.30	1B21-H0031-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-121
D2.20	1B21-H0035-WA	Integral Attachment Anchor	VT-3	2	605-120
D2.30	1B21-H0042-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-121
D2.20	1B21-H0044-WA	Integral Attachment Anchor	VT-3	2	605-115
D2.30	1B21-H0045-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-115
D2.30	1B21-H0047-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-115
D2.30	1B21-H0049-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-115
D2.20	1B21-H0050-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-115
D2.20	1B21-H0052-WA	Integral Attachment Anchor	VT-3	2	605-130
D2.40	1B21-H0053-WA	Integral Attachment Variable Spring	VT-3	3	605-130
D2.30	1B21-H0054-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-130
D2.30	1B21-H0056-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-130
D2.30	1B21-H0057-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-130
D2.20	1B21-H0061-WA	Integral Attachment Anchor	VT-3	3	605-117
D2.30	1B21-H0063-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-117
D2.30	1B21-H0065-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-117
D2.30	1B21-H0069-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-113
D2.20	1B21-H0070-WA	Integral Attachment Anchor	VT-3	3	605-116
D2.30	1B21-H0073-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-116
D2.30	1B21-H0074-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-116
D2.30	1B21-H0079-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-116
D2.20	1B21-H0080-WA	Integral Attachment Anchor	VT-3	3	605-118
D2.30	1B21-H0084-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-118
D2.30	1B21-H0086-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-118
D2.30	1B21-H0087-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-113
D2.20	1B21-H0088-WA	Integral Attachment Anchor	VT-3	1	605-114
D2.20	1B21-H0090-WA	Integral Attachment Anchor	VT-3	2	605-113
D2.30	1B21-H0092-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-114
D2.30	1B21-H0095-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-114
D2.20	1B21-H0097-WA	Integral Attachment Anchor	VT-3	1	605-123

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.30	1B21-H0098-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-123
D2.20	1B21-H0105-WA	Integral Attachment Anchor	VT-3	2	605-124
D2.30	1B21-H0106-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-123
D2.30	1B21-H0107-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-123
D2.20	1B21-H0109-WA	Integral Attachment Anchor	VT-3	3	605-123
D2.30	1B21-H0115-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-122
D2.40	1B21-H0116-WA	Integral Attachment Variable Spring	VT-3	1	605-122
D2.30	1B21-H0117-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-122
D2.30	1B21-H0119-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-122
D2.20	1B21-H0120-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-114
D2.20	1B21-H0121-WA	Integral Attachment Anchor	VT-3	2	605-129
D2.30	1B21-H0122-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-129
D2.30	1B21-H0125-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-129
D2.30	1B21-H0127-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-129
D2.20	1B21-H0128-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-129
D2.30	1B21-H0129-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-119
D2.40	1B21-H0132-WA	Integral Attachment Variable Spring	VT-3	3	605-124
D2.30	1B21-H0133-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-127
D2.20	1B21-H0134-WA	Integral Attachment Rigid Guide	VT-3	1	605-127
D2.30	1B21-H0135-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-127
D2.30	1B21-H0138-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-125
D2.30	1B21-H0140-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-126
D2.30	1B21-H0141-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-126
D2.20	1B21-H0142-WA	Integral Attachment Anchor	VT-3	3	605-112
D2.30	1B21-H0143-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-124
D2.30	1B21-H0147-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-124
D2.40	1B21-H0149-WA	Integral Attachment Variable Spring	VT-3	1	605-112
D2.30	1B21-H0150-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-112
D2.30	1B21-H0151-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-112
D2.30	1B21-H0153-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-112
D2.30	1B21-H0154-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-112
D2.20	1B21-H0155-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-112
D2.20	1B21-H0156-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-128
D2.20	1B21-H0157-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-127
D2.20	1B21-H0158-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-125

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1B21-H0159-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-121
D2.20	1B21-H0160-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-120
D2.20	1B21-H0161-WA	Integral Attachment Rigid Strut	VT-3	3	605-124
D2.30	1B21-H0162-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-124
D2.20	1B21-H0163-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-117
D2.20	1B21-H0164-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-116
D2.30	1B21-H0165-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-121
D2.30	1B21-H0166-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-114
D2.20	1B21-H0167-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-126
D2.20	1B21-H0168-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-113
D2.30	1B21-H0170-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-124
D2.20	1B21-H0171-WA	Integral Attachment Anchor	VT-3	2	605-126
D2.20	1B21-H0173-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-123
D2.30	1B21-H0174-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-122
D2.20	1B21-H0175-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-122
D2.20	1B21-H0176-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-130
D2.20	1B21-H0177-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-118
D2.30	1B21-H0178-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-120
D2.20	1B21-H0179-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-124
D2.20	1B21-H0180-WA	Integral Attachment Anchor	VT-3	3	605-119
D2.30	1B21-H0181-WA	Integral Attachment Mechanical Snubber	VT-3	1	605-119
D2.20	1B21-H0186-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-119
D2.30	1B21-H0187-WA	Integral Attachment Mechanical Snubber	VT-3		605-120
D2.30	1B21-H0191-WA	Integral Attachment Mechanical Snubber	VT-3	2	605-118
D2.20	1B21-H0192-WA	Integral Attachment Rigid Guide	VT-3	NS*	605-118
D2.20	1B21-H0203-WA	Integral Attachment Rigid Strut	VT-3	3	605-116
D2.20	1B21-H0204-WA	Integral Attachment Rigid Strut	VT-3	1	605-130
D2.20	1B21-H0205-WA	Integral Attachment Rigid Strut	VT-3	1	605-129
D2.20	1B21-H0206-WA	Integral Attachment Rigid Strut	VT-3	2	605-128
D2.20	1B21-H0207-WA	Integral Attachment Rigid Strut	VT-3	3	605-127
D2.20	1B21-H0208-WA	Integral Attachment Rigid Strut	VT-3	3	605-125
D2.20	1B21-H0209-WA	Integral Attachment Rigid Strut	VT-3	3	605-124
D2.20	1B21-H0210-WA	Integral Attachment Rigid Strut	VT-3	3	605-126
D2.20	1B21-H0211-WA	Integral Attachment Rigid Strut	VT-3	1	605-123

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1B21-H0212-WA	Integral Attachment Rigid Strut	VT-3	1	605-122
D2.20	1B21-H0213-WA	Integral Attachment Rigid Strut	VT-3	1	605-112
D2.20	1B21-H0214-WA	Integral Attachment Rigid Strut	VT-3	2	605-113
D2.20	1B21-H0215-WA	Integral Attachment Rigid Strut	VT-3	3	605-114
D2.20	1B21-H0216-WA	Integral Attachment Rigid Strut	VT-3	3	605-115
D2.20	1B21-H0217-WA	Integral Attachment Rigid Strut	VT-3	2	605-121
D2.20	1B21-H0218-WA	Integral Attachment Rigid Strut	VT-3	1	605-120
D2.20	1B21-H0219-WA	Integral Attachment Rigid Strut	VT-3	1	605-119
D2.20	1B21-H0220-WA	Integral Attachment Rigid Strut	VT-3	2	605-118
D2.20	1B21-H0221-WA	Integral Attachment Rigid Strut	VT-3	2	605-117
D2.30	1B21-H0222-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-119
D2.40	1B21-H0409-WA	Integral Attachment Variable Spring	VT-3	3	605-125
D2.30	1B21-H0412-WA	Integral Attachment Mechanical Snubber	VT-3	3	605-121
D2.40	1B21-H0413-WA	Integral Attachment Variable Spring	VT-3	1	605-121
D2.40	1B21-H0416-WA	Integral Attachment Variable Spring	VT-3	1	605-115
D2.40	1B21-H0419-WA	Integral Attachment Variable Spring	VT-3	3	605-118
D2.40	1B21-H0420-WA	Integral Attachment Variable Spring	VT-3	1	605-112
D2.40	1B21-H0428-WA	Integral Attachment Variable Spring	VT-3	2	605-113
D2.40	1B21-H0433-WA	Integral Attachment Variable Spring	VT-3	3	605-129
D2.40	1B21-H0437-WA	Integral Attachment Variable Spring	VT-3	1	605-128
D2.40	1B21-H0439-WA	Integral Attachment Variable Spring	VT-3	3	605-117
D2.20	1B21-QUE-01-WA	Integral Attachment Quencher Anchor, F041A	VT-3	1	605-128
D2.20	1B21-QUE-02-WA	Integral Attachment Quencher Anchor, F041B	VT-3	2	605-113
D2.20	1B21-QUE-03-WA	Integral Attachment Quencher Anchor, F041C	VT-3	1	605-122
D2.20	1B21-QUE-04-WA	Integral Attachment Quencher Anchor, F041D	VT-3	2	605-118
D2.20	1B21-QUE-05-WA	Integral Attachment Quencher Anchor, F041E	VT-3	2	605-130
D2.20	1B21-QUE-06-WA	Integral Attachment Quencher Anchor, F041F	VT-3	3	605-115
D2.20	1B21-QUE-07-WA	Integral Attachment Quencher Anchor, F041G	VT-3	3	605-125
D2.20	1B21-QUE-08-WA	Integral Attachment Quencher Anchor, F041K	VT-3	1	605-120
D2.20	1B21-QUE-09-WA	Integral Attachment Quencher Anchor, F047B	VT-3	1	605-112
D2.20	1B21-QUE-10-WA	Integral Attachment Quencher Anchor, F047C	VT-3	3	605-126
D2.20	1B21-QUE-11-WA	Integral Attachment Quencher Anchor, F047D	VT-3	2	605-119
D2.20	1B21-QUE-12-WA	Integral Attachment Quencher Anchor, F047F	VT-3	2	605-121
D2.20	1B21-QUE-13-WA	Integral Attachment Quencher Anchor, F047G	VT-3	3	605-127

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1B21-QUE-14-WA	Integral Attachment Quencher Anchor, F047H	VT-3	2	605-117
D2.20	1B21-QUE-15-WA	Integral Attachment Quencher Anchor, F051A	VT-3	2	605-129
D2.20	1C21-QUE-16-WA	Integral Attachment Quencher Anchor, F051B	VT-3	3	605-114
D2.20	1B21-QUE-17-WA	Integral Attachment Quencher Anchor, F051C	VT-3	1	605-123
D2.20	1B21-QUE-18-WA	Integral Attachment Quencher Anchor, F051D	VT-3	3	605-116
D2.20	1B21-QUE-19-WA	Integral Attachment Quencher Anchor, F051G	VT-3	3	505-124
D2.30	1E12-H0060-WA	Integral Attachment Mechanical Snubber	VT-3	2	642-149
D2.40	1E12-H0061-WA	Integral Attachment Variable Spring	VT-3	2	642-149
D2.20	1E12-H0062-WA	Integral Attachment Rigid Guide	VT-3	3	642-149
D2.20	1E12-H0573-WA	Integral Attachment Rigid Strut	VT-3	2	642-149
D2.20	1E22-D008-WA	Integral Attachment Exhaust Silence Support Anchor	VT-3	2	355-101
D2.20	1E22-H0132-WA	Integral Attachment Anchor	VT-3	2	355-101
D2.20	1E22-H0133-WA	Integral Attachment Rigid Strut	VT-3	3	355-101
D2.40	1E22-H0136-WA	Integral Attachment Variable Spring	VT-3	2	355-101
D2.40	1E22-H0138-WA	Integral Attachment Variable Spring	VT-3	2	355-101
D2.40	1E22-H0139-WA	Integral Attachment Variable Spring	VT-3	2	355-101
D2.20	1E22-S001-WA	Jacket Water Heat Exchanger Vessel Anchor	VT-3	2	791-101
D2.20	1E22-S004A-WA	Integral Attachment Air Receiver Tank Support Anchor	VT-3	2	351-101
D2.20	1E22-S004B-WA	Integral Attachment Air Receiver Tank Support Anchor	VT-3	3	351-101
D2.20	1P42-A001A-WA	Integral Attachment Surge Tank Anchor	VT-3	1	621-113
D2.20	1P42-A001B-WA	Integral Attachment Surge Tank Anchor	VT-3	2	621-113
D2.20	1P42-B001A-WA	Integral Attachment Heat Exchanger Anchor	VT-3	1	621-112
D2.20	1P42-B001B-WA	Integral Attachment Heat Exchanger Anchor	VT-3	3	621-112
D2.20	1P42-C001A-WA	Integral Attachment Pump Anchor	VT-3	2	4549-22-043-2
D2.20	1P42-C001B-WA	Integral Attachment Pump Anchor	VT-3	3	4549-22-043-2
D2.20	1P42-H0102-WA	Integral Attachment Rigid Guide	VT-3	1	621-106
D2.20	1P42-H0108-WA	Integral Attachment Rigid Strut	VT-3	3	621-108
D2.20	1P42-H0110-WA	Integral Attachment Rigid Rod	VT-3	2	621-106
D2.20	1P42-H0111-WA	Integral Attachment Rigid Guide	VT-3	3	621-106
D2.40	1P42-H0112-WA	Integral Attachment Variable Spring	VT-3	3	621-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1P42-H0115-WA	Integral Attachment Rigid Guide	VT-3	1	621-107
D2.40	1P42-H0120-WA	Integral Attachment Variable Spring	VT-3	3	621-106
D2.20	1P42-H0122-WA	Integral Attachment Rigid Guide	VT-3	1	621-106
D2.20	1P42-H0123-WA	Integral Attachment Rigid Rod	VT-3	2	621-107
D2.20	1P42-H0148-WA	Integral Attachment Rigid Guide	VT-3	3	621-109
D2.20	1P42-H0161-WA	Integral Attachment Rigid Guide	VT-3	2	621-111
D2.20	1P42-H0162-WA	Integral Attachment Rigid Guide	VT-3	2	621-111
D2.20	1P42-H0171-WA	Integral Attachment Anchor	VT-3	2	621-107
D2.20	1P42-H0191-WA	Integral Attachment Anchor	VT-3	3	621-101
D2.20	1P42-H0210-WA	Integral Attachment Anchor	VT-3	3	621-103
D2.30	1P42-H0213-WA	Integral Attachment Rigid Strut	VT-3	2	621-103
D2.20	1P42-H0219-WA	Integral Attachment Anchor	VT-3	3	621-109
D2.20	1P42-H0221-WA	Integral Attachment Rigid Guide	VT-3	NS*	621-104
D2.20	1P42-H0222-WA	Integral Attachment Rigid Guide	VT-3	NS*	621-104
D2.20	1P42-H0234-WA	Integral Attachment Rigid Guide	VT-3	3	621-105
D2.20	1P42-H0236-WA	Integral Attachment Anchor	VT-3	3	621-105
D2.20	1P42-H0239-WA	Integral Attachment Rigid Strut	VT-3	2	621-103
D2.30	1P42-H0240-WA	Integral Attachment Rigid Strut	VT-3	2	621-103
D2.20	1P42-H0241-WA	Integral Attachment Rigid Strut	VT-3	3	621-104
D2.30	1P42-H0242-WA	Integral Attachment Rigid Strut	VT-3	3	621-104
D2.20	1P45-C001A-WA	Integral Attachment Pump Anchor	VT-3	1	791-108
D2.20	1P45-C001B-WA	Integral Attachment Pump Anchor	VT-3	1	791-109
D2.20	1P45-C002-WA	Integral Attachment Pump Anchor	VT-3	2	791-107
D2.20	1P45-D002A-WA	Integral Attachment Filter Anchor	VT-3	2	791-108
D2.20	1P45-D002B-WA	Integral Attachment Filter Anchor	VT-3	3	791-109
D2.20	1P45-D003-WA	Integral Attachment Filter Anchor	VT-3	3	791-107
D2.20	1P45-H0020-WA	Integral Attachment Anchor	VT-3	2	742-103
D2.20	1P45-H0021-WA	Integral Attachment Anchor	VT-3	2	742-103
D2.20	1P45-H0022-WA	Integral Attachment Anchor	VT-3	NS*	792-106
D2.20	1P45-H0033-WA	Integral Attachment Anchor	VT-3	3	792-105
D2.20	1P45-H0034-WA	Integral Attachment Anchor	VT-3	3	792-106
D2.20	1P45-H0035-WA	Integral Attachment Anchor	VT-3	2	792-117
D2.20	1P45-H0047-WA	Integral Attachment Anchor	VT-3	3	792-116
D2.20	1P45-H0048-WA	Integral Attachment Anchor	VT-3	1	792-115

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1P45-H0049-WA	Integral Attachment Anchor	VT-3	NS*	792-112
D2.20	1P45-H0060-WA	Integral Attachment Anchor	VT-3	3	792-112
D2.20	1P45-H0070-WA	Integral Attachment Anchor	VT-3	1	792-112
D2.40	1P45-H0071-WA	Integral Attachment Variable Spring	VT-3	1	792-113
D2.20	1P45-H0077-WA	Integral Attachment Anchor	VT-3	3	792-113
D2.20	1P45-H0089-WA	Integral Attachment Anchor	VT-3	3	792-118
D2.30	1P45-H0097-WA	Integral Attachment Mechanical Snubber	VT-3	2	791-111
D2.20	1P45-H0100-WA	Integral Attachment Anchor	VT-3	3	791-111
D2.20	1P45-H0123-WA	Integral Attachment Anchor	VT-3	3	79C-108
D2.30	1P45-H0124-WA	Integral Attachment Mechanical Snubber	VT-3	?	792-107
D2.20	1P45-H0127-WA	Integral Attachment Anchor	VT-3	NS*	792-107
D2.20	1P45-H0128-WA	Integral Attachment Anchor	VT-3	2	792-107
D2.20	1P45-H0159-WA	Integral Attachment Anchor	VT-3	3	792-104
D2.20	1P45-H0169-WA	Integral Attachment Rigid Strut	VT-3	3	792-104
D2.20	1P45-H0170-WA	Integral Attachment Rigid Rod	VT-3	2	791-106
D2.20	1P45-H0172-WA	Integral Attachment Anchor	VT-3	1	791-106
D2.40	1P45-H0175-WA	Integral Attachment Variable Spring	VT-3	3	791-106
D2.30	1P45-H0183-WA	Integral Attachment Mechanical Snubber	VT-3	1	791-106
D2.30	1P45-H0186-WA	Integral Attachment Mechanical Snubber	VT-3	2	791-106
D2.20	1P45-H0189-WA	Integral Attachment Anchor	VT-3	3	791-106
D2.20	1P45-H0191-WA	Integral Attachment Rigid Guide	VT-3	NS*	791-113
D2.20	1P45-H0210-WA	Integral Attachment Anchor	VT-3	3	791-113
D2.30	1P45-H0212-WA	Integral Attachment Rigid Strut	VT-3	1	791-112
D2.30	1P45-H0215-WA	Integral Attachment Rigid Strut	VT-3	2	791-112
D2.30	1P45-H0216-WA	Integral Attachment Mechanical Snubber	VT-3	3	791-112
D2.30	1P45-H0222-WA	Integral Attachment Mechanical Snubber	VT-3	2	791-112
D2.30	1P45-H0226-WA	Integral Attachment Rigid Strut	VT-3	1	791-112
D2.20	1P45-H0229-WA	Integral Attachment Anchor	VT-3	2	791-112
D2.20	1P45-H0232-WA	Integral Attachment Anchor	VT-3	1	791-103
D2.20	1P45-H0243-WA	Integral Attachment Anchor	VT-3	2	791-102
D2.20	1P45-H0256-WA	Integral Attachment Rigid Strut	VT-3	2	791-103
D2.20	1P45-H0271-WA	Integral Attachment Rigid Guide	VT-3	NS*	791-104
D2.40	1P45-H0272-WA	Integral Attachment Variable Spring	VT-3	3	791-104
D2.30	1P45-H0273-WA	Integral Attachment Rigid Strut	VT-3	3	791-104
D2.20	1P45-H0274-WA	Integral Attachment Rigid Guide	VT-3	3	791-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.40	1P45-H0277-WA	Integral Attachment Variable Spring	VT-3	1	791-105
D2.20	1P45-H0287-WA	Integral Attachment Anchor	VT-3	2	791-105
D2.20	1P45-H0293-WA	Integral Attachment Anchor	VT-3	3	792-109
D2.20	1P45-H0294-WA	Integral Attachment Rigid Rod	VT-3	2	792-109
D2.20	1P45-H0297-WA	Integral Attachment Rigid Guide	VT-3	2	792-109
D2.20	1P45-H0298-WA	Integral Attachment Rigid Guide	VT-3	1	792-109
D2.20	1P45-H0308-WA	Integral Attachment Anchor	VT-3	2	792-114
D2.20	1P45-H0309-WA	Integral Attachment Rigid Rod	VT-3	3	792-309
D2.20	1P45-H0312-WA	Integral Attachment Rigid Guide	VT-3	1	792-115
D2.20	1P45-H0313-WA	Integral Attachment Rigid Guide	VT-3	1	792-115
D2.30	1P45-H0353-WA	Integral Attachment Mechanical Snubber	VT-3	2	792-104
D2.20	1P45-H0357-WA	Integral Attachment Rigid Strut	VT-3	3	792-103
D2.20	1P45-H0365-WA	Integral Attachment Rigid Guide	VT-3	2	792-110
D2.20	1P45-H0369-WA	Integral Attachment Rigid Strut	VT-3	1	792-110
D2.20	1P45-H0374-WA	Integral Attachment Rigid Guide	VT-3	3	792-111
D2.20	1P45-H0372-WA	Integral Attachment Rigid Strut	VT-3	2	792-102
D2.20	1P45-H0383-WA	Integral Attachment Rigid Guide	VT-3	2	792-110
D2.20	1P45-H0386-WA	Integral Attachment Rigid Guide	VT-3	3	792-102
D2.20	1P45-H0368-WA	Integral Attachment Anchor	VT-3	1	792-101
D2.20	1P45-H0389-WA	Integral Attachment Anchor	VT-3	2	792-111
D2.20	1P45-H0395-WA	Integral Attachment Rigid Strut	VT-3	2	791-105
D2.30	1P45-H0413-WA	Integral Attachment Rigid Strut	VT-3	2	791-101
D2.20	1P45-H0417-WA	Integral Attachment Rigid Guide	VT-3	NS*	791-101
D2.30	1P45-H0422-WA	Integral Attachment Mechanical Snubber	VT-3	1	791-102
D2.20	1P45-H0428-WA	Integral Attachment Rigid Guide	VT-3	3	791-102
D2.20	1P45-H0431-WA	Integral Attachment Rigid Rod	VT-3	1	791-102
D2.30	1P45-H0509-WA	Integral Attachment Mechanical Snubber	VT-3	2	792-111
D2.30	1P45-H0510-WA	Integral Attachment Mechanical Snubber	VT-3	2	792-114
D2.30	1P45-H0511-WA	Integral Attachment Rigid Strut	VT-3	3	792-114
D2.30	1P45-H0512-WA	Integral Attachment Mechanical Snubber	VT-3	3	792-111
D2.30	1P45-H0515-WA	Integral Attachment Rigid Strut	VT-3	1	792-114
D2.30	1P45-H0516-WA	Integral Attachment Mechanical Snubber	VT-3	2	792-111
D2.30	1P45-H0521-WA	Integral Attachment Mechanical Snubber	VT-3	1	792-101
D2.30	1P45-H0526-WA	Integral Attachment Mechanical Snubber	VT-3	3	792-101
D2.20	1P45-H0625-WA	Integral Attachment Anchor	VT-3	2	792-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1P45-H0643-WA	Integral Attachment Rigid Guide	VT-3	NS <sup>4</sup>	791-110
D2.20	1P45-H0648-WA	Integral Attachment Rigid Guide	VT-3	3	791-110
D2.20	1P45-H0649-WA	Integral Attachment Rigid Guide	VT-3	2	791-110
D2.20	1P45-H0654-WA	Integral Attachment Rigid Guide	VT-3	3	791-110
D2.20	1P45-H0656-WA	Integral Attachment Rigid Guide	VT-3	3	791-110
D2.20	1P45-H0659-WA	Integral Attachment Rigid Guide	VT-3	2	791-110
D2.20	1P45-H1228-WA	Integral Attachment Rigid Guide	VT-3	2	792-118
D2.20	1P45-H5003-WA	Integral Attachment Rigid Guide	VT-3	1	791-105
D2.20	1P45-H5002-WA	Integral Attachment Rigid Strut	VT-3	2	791-106
D2.20	1P45-H5003-WA	Integral Attachment Rigid Strut	VT-3	3	791-112
D2.20	1P47-A002A-WA	Integral Attachment Expansion Tank Anchor	VT-3	2	002-115
D2.20	1P47-A002B-WA	Integral Attachment Expansion Tank Anchor	VT-3	3	002-115
D2.20	1P47-B001A-WA	Integral Attachment Chiller Anchor	VT-3	1	002-116
D2.20	1P47-B001B-WA	Integral Attachment Chiller Anchor	VT-3	1	002-116
D2.20	1P47-B001C-WA	Integral Attachment Chiller Anchor	VT-3	2	002-116
D2.20	1P47-C001A-WA	Integral Attachment Pump Anchor	VT-3	2	002-117
D2.20	1P47-C001B-WA	Integral Attachment Pump Anchor	VT-3	3	002-117
D2.20	1P47-C001C-WA	Integral Attachment Pump Anchor	VT-3	3	002-117
D2.20	1P47-H0001-WA	Integral Attachment Rigid Guide	VT-3	1	002-101
D2.20	1P47-H0002-WA	Integral Attachment Rigid Guide	VT-3	1	002-101
D2.20	1P47-H0014-WA	Integral Attachment Rigid Guide	VT-3	3	002-101
D2.20	1P47-H0015-WA	Integral Attachment Rigid Guide	VT-3	3	002-101
D2.20	1P47-H0016-WA	Integral Attachment Rigid Guide	VT-3	3	002-102
D2.20	1P47-H0019-WA	Integral Attachment Rigid Strut	VT-3	1	002-102
D2.20	1P47-H0021-WA	Integral Attachment Rigid Guide	VT-3	2	002-107
D2.20	1P47-H0029-WA	Integral Attachment Rigid Guide	VT-3	2	002-108
D2.20	1P47-H0030-WA	Integral Attachment Rigid Guide	VT-3	2	002-109
D2.20	1P47-H0031-WA	Integral Attachment Rigid Guide	VT-3	3	002-103
D2.20	1P47-H0034-WA	Integral Attachment Rigid Strut	VT-3	1	002-103
D2.20	1P47-H0043-WA	Integral Attachment Rigid Strut	VT-3	2	002-103
D2.20	1P47-H0046-WA	Integral Attachment Rigid Strut	VT-3	3	002-107
D2.20	1P47-H0215-WA	Integral Attachment Anchor	VT-3	3	002-110
D2.20	1P47-H0218-WA	Integral Attachment Anchor	VT-3	3	002-103
D2.20	1P47-H0219-WA	Integral Attachment Anchor	VT-3	1	002-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1P47-H0220-WA	Integral Attachment Anchor	VT-3	1	002-107
D2.20	1P47-H0221-WA	Integral Attachment Anchor	VT-3	2	002-105
D2.20	1P47-H0222-WA	Integral Attachment Anchor	VT-3	2	002-102
D2.30	1P47-H0278-WA	Integral Attachment Mechanical Snubber	VT-3	2	002-103
D2.30	1P47-H0279-WA	Integral Attachment Mechanical Snubber	VT-3	2	002-113
D2.30	1P47-H0286-WA	Integral Attachment Rigid Strut	VT-3	2	002-105
D2.30	1P47-H0287-WA	Integral Attachment Rigid Strut	VT-3	3	002-110
D2.20	1P47-H0348-WA	Integral Attachment Rigid Strut	VT-3	2	002-104
D2.20	1P47-H0349-WA	Integral Attachment Rigid Strut	VT-3	3	002-113
D2.20	1P47-H0357-WA	Integral Attachment Rigid Strut	VT-3	1	002-105
D2.20	1P47-H0358-WA	Integral Attachment Rigid Strut	VT-3	3	002-111
D2.40	1P47-H0378-WA	Integral Attachment Variable Spring	VT-3	1	002-109
D2.40	1P47-H0379-WA	Integral Attachment Variable Spring	VT-3	2	002-109
D2.40	1P47-H0380-WA	Integral Attachment Variable Spring	VT-3	2	002-108
D2.40	1P47-H0381-WA	Integral Attachment Variable Spring	VT-3	3	002-108
D2.40	1P47-H0382-WA	Integral Attachment Variable Spring	VT-3	3	002-107
D2.20	0P49-C002A-WA	Integral Attachment Screen Wash Pump Anchor	VT-3	3	214-101
D2.20	0P49-C002B-WA	Integral Attachment Screen Wash Pump Anchor	VT-3	1	214-102
D2.20	0P49-D003A-WA	Integral Attachment Screen Wash Strainer Anchor	VT-3	2	214-101
D2.20	0P49-D003B-WA	Integral Attachment Screen Wash Strainer anchor	VT-3	3	214-102
D2.20	1P57-A003A-WA	Integral Attachment ADS Safety-Related Air Storage Tank A	VT-3	1	271-101
D2.20	1P57-A003B-WA	Integral Attachment ADS Safety-Related Air Storage Tank B	VT-3	2	271-101
D2.20	1R44-A001A-WA	Integral Attachment Starting Air Receiver Tank Anchor	VT-3	3	351-102
D2.20	1R44-A001B-WA	Integral Attachment Starting Air Receiver Tank Anchor	VT-3	1	351-104
D2.20	1R44-A002A-WA	Integral Attachment Starting Air Receiver Tank Anchor	VT-3	2	351-103
D2.20	1R44-A002B-WA	Integral Attachment Starting Air Receiver Tank Anchor	VT-3	3	351-105
D2.20	1R45-A003A-WA	Integral Attachment Fuel Oil Day Tk Anchor	VT-3	3	355-110
D2.20	1R45-A003B-WA	Integral Attachment Fuel Oil Day Tk Anchor	VT-3	1	355-111
D2.20	1R45-A005-WA	Integral Attachment HPCS Fuel Oil Day Tank Anchor	VT-3	2	356-101
D2.20	1R46-A003A-WA	Integral Attachment Jacket Water Stand Pipe Anchor	VT-3	3	354-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1R46-A003B-WA	Integral Attachment Jacket Water Stand Pipe Anchor	VT-3	1	354-106
D2.20	1R46-B001A-WA	Integral Attachment Lube Oil Heat Exchanger Anchor	VT-3	2	354-101
D2.20	1R46-B001B-WA	Integral Attachment Lube Oil Heat Exchanger Anchor	VT-3	3	354-102
D2.20	1R46-B002A-WA	Integral Attachment Lube Oil Heat Exchanger Anchor	VT-3	1	354-103
D2.20	1R46-B002B-WA	Integral Attachment Lube Oil Heat Exchanger Anchor	VT-3	2	354-104
D2.20	1R47-A001A-WA	Integral Attachment Lube Oil Tank Anchor	VT-3	3	353-103
D2.20	1R47-A001B-WA	Integral Attachment Lube Oil Tank Anchor	VT-3	1	353-104
D2.20	1R47-D005A-WA	Integral Attachment Filter Anchor	VT-3	2	353-105
D2.20	1R47-D005B-WA	Integral Attachment Filter Anchor	VT-3	3	353-106
D2.20	1R47-D006A-WA	Integral Attachment Warm Filter Anchor	VT-3	1	353-101
D2.20	1R47-D006B-WA	Integral Attachment Warm Filter Anchor	VT-3	2	353-102
D2.20	1R48-D001A-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	2	355-105
D2.20	1R48-D001B-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	3	355-104
D2.20	1R48-D002A-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	2	355-103
D2.20	1R48-D002B-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	3	355-102
D2.20	1R48-D003A-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	2	355-103
D2.20	1R48-D003B-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	3	355-102
D2.20	1R48-D0010A-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	2	355-107
D2.20	1R48-D0010B-WA	Integral Attachment Standby Diesel Silencer Anchor	VT-3	3	355-106
D2.20	1R48-H0005-WA	Integral Attachment Anchor	VT-3	1	355-103
D2.20	1R48-H0006-WA	Integral Attachment Anchor	VT-3	1	355-103
D2.20	1R48-H0011-WA	Integral Attachment Anchor	VT-3	1	355-103
D2.20	1R48-H0012-WA	Integral Attachment Anchor	VT-3	1	355-103
D2.20	1R48-H0013-WA	Integral Attachment Anchor	VT-3	2	355-102
D2.20	1R48-H0018-WA	Integral Attachment Anchor	VT-3	2	355-102
D2.20	1R48-H0019-WA	Integral Attachment Anchor	VT-3	2	355-102
D2.20	1R48-H0024-WA	Integral Attachment Anchor	VT-3	3	355-102
D2.30	1R48-H0027-WA	Integral Attachment Mechanical Snubber	VT-3	3	355-105
D2.30	1R48-H0034-WA	Integral Attachment Mechanical Snubber	VT-3	3	355-104
D2.40	1R48-H0041-WA	Integral Attachment Variable Spring	VT-3	2	355-105
D2.40	1R48-H0042-WA	Integral Attachment Variable Spring	VT-3	3	355-104
D2.20	1R48-H0045-WA	Integral Attachment Rigid Guide	VT-3	3	355-106
D2.20	1R48-H0047-WA	Integral Attachment Rigid Guide	VT-3	2	355-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARF. NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: D-B					
D2.20	1R48-H0050-WA	Integral Attachment Rigid Guide	VT-3	2	355-107
D2.20	1R48-H0052-WA	Integral Attachment Rigid Guide	VT-3	2	355-107
D2.20	2P42-H0009-WA	Integral Attachment Rigid Guide	VT-3	1	623-106
D2.20	2P42-H0010-WA	Integral Attachment Rigid Guide	VT-3	1	623-107
D2.30	2P42-H0018-WA	Integral Attachment Rigid Strut	VT-3	1	623-106
D2.20	2P42-H0020-WA	Integral Attachment Rigid Strut	VT-3	2	623-107
D2.20	2P42-H0024-WA	Integral Attachment Rigid Guide	VT-3	2	623-112
D2.20	2P42-H0025-WA	Integral Attachment Rigid Guide	VT-3	2	623-110
D2.20	2P42-H0026-WA	Integral Attachment Rigid Strut	VT-3	3	623-110
D2.20	2P42-H0039-WA	Integral Attachment Anchor	VT-3	3	623-101
D2.20	2P42-H0044-WA	Integral Attachment Anchor	VT-3	3	623-111
D2.30	2P42-H0050-WA	Integral Attachment Mechanical Snubber	VT-3	2	623-112
D2.20	2P42-H0143-WA	Integral Attachment Rigid Guide	VT-3	1	623-108
D2.20	2P42-H0146-WA	Integral Attachment Rigid Guide	VT-3	3	623-108
D2.20	2P42-H0148-WA	Integral Attachment Rigid Strut	VT-3	3	623-106
D2.20	2P42-H0153-WA	Integral Attachment Rigid Strut	VT-3	3	623-103
D2.20	2P42-H0265-WA	Integral Attachment Anchor	VT-3	3	623-104
D2.20	2P42-H0273-WA	Integral Attachment Anchor	VT-3	3	623-108

\*Not scheduled due to inaccessibility (see Relief Request IR-021)

EXAMINATION CATEGORY: D-C

D3.10		System Pressure Test	VT-2	1,2	
D3.10		System Hydrostatic Test	VT-2	3	
D3.20	1G41-A002A-WA	Integral Attachment, Surge Tank Anchor	VT-3	1	655-118
D3.20	1G41-A002B-WA	Integral Attachment, Surge Tank Anchor	VT-3	2	655-119
D3.20	1G41-B001A-WA	Integral Attachment, Ht Exchanger Anchor	VT-3	3	654-108
D3.20	1G41-B001B-WA	Integral Attachment, Ht Exchanger Anchor	VT-3	1	654-108
D3.30	1G41-H0013-WA	Integral Attachment Mechanical Snubber	VT-3	3	655-117
D3.20	1G41-H0026-WA	Integral Attachment Rigid Strut	VT-3	1	655-117
D3.20	1G41-H0038-WA	Integral Attachment Variable Spring	VT-2	2	655-110
D3.20	1G41-H0041-WA	Integral Attachment Rigid Strut	VT-3	2	655-116
D3.20	1G41-H0045-WA	Integral Attachment Rigid Strut	VT-3	3	655-110
D3.20	1G41-H0054-WA	Integral Attachment Rigid Strut	VT-3	2	655-107

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISJ ISO SS-305-
EXAMINATION CATEGORY: D-C					
D3.20	1G41-H0070-WA	Integral Attachment Mechanical Snubber	VT-3	2	654-105
D3.20	1G41-H0129-WA	Integral Attachment Rigid Strut	VT-3	1	655-108
D3.20	1G41-H0139-WA	Integral Attachment Rigid Strut	VT-3	2	655-108
D3.20	1G41-H0184-WA	Integral Attachment Rigid Strut	VT-3	3	655-108
D3.20	1G41-H0221-WA	Integral Attachment Rigid Guide	VT-3	1	651-101
D3.30	1G41-H0228-WA	Integral Attachment Mechanical Snubber	VT-3	3	655-111
D3.30	1G41-H0236-WA	Integral Attachment Mechanical Snubber	VT-3	2	655-111
D3.30	1G41-H0238-WA	Integral Attachment Mechanical Snubber	VT-3	1	655-112
D3.30	1G41-H0242-WA	Integral Attachment Mechanical Snubber	VT-3	3	655-109
D3.20	1G41-H0244-WA	Integral Attachment Rigid Strut	VT-3	2	655-112
D3.20	1G41-H0273-WA	Integral Attachment Rigid Strut	VT-3	3	654-107
D3.20	1G41-H0275-WA	Integral Attachment Rigid Strut	VT-3	2	654-107
D3.20	1G41-H0281-WA	Integral Attachment Rigid Guide	VT-3	2	651-103
D3.20	1G41-H0309-WA	Integral Attachment Rigid Guide	VT-3	3	654-103
D3.20	1G41-H0316-WA	Integral Attachment Rigid Guide	VT-3	2	654-102
D3.20	1G41-H0396-WA	Integral Attachment Rigid Guide	VT-3	NS*	655-114
D3.20	1G41-H0404-WA	Integral Attachment Anchor	VT-3	2	655-105
D3.20	1G41-H0415-WA	Integral Attachment Anchor	VT-3	3	654-103
D3.20	1G41-H0425-WA	Integral Attachment Anchor	VT-3	3	654-102
D3.20	1G41-H0427-WA	Integral Attachment Anchor	VT-3	2	655-116
D3.20	1G41-H0429-WA	Integral Attachment Rigid Strut	VT-3	3	651-102
D3.20	1G41-H0481-WA	Integral Attachment Rigid Strut	VT-3	2	654-105
D3.30	1G41-H5001-WA	Integral Attachment Mechanical Snubber	VT-3	3	655-108
D3.20	1G42-H0005-WA	Integral Attachment Rigid Guide	VT-3	3	655-101
D3.30	1G42-H0010-WA	Integral Attachment Mechanical Snubber	VT-3	2	655-101
D3.30	1G42-H0013-WA	Integral Attachment Mechanical Snubber	VT-3	3	655-101

\*Not scheduled due to inaccessibility (see Relief Request IR-021).

## 5.0 COMPONENT SUPPORTS

This section encompasses metal supports and structural elements that are designed to transmit loads, support the weight and/or provide structural stability to components and piping.

Section XI organizes component supports into three Categories; F-A, F-B, and F-C. To simplify the ISEP, these categories have been combined into one designated F-A. The category has been broken down by class, assigning each class an item number as follows:

<u>Item Number</u>	<u>Description</u>
F1.10	Class 1 Component Supports
F2.10	Class 2 Component Supports
F3.10	Class 3 Component Supports
F5.10	Augmented: Supports that do not meet Section XI selection criteria but are included to assure system integrity.

### Support Types

The examination requirements apply to the following type of supports:

1. Plate and shell type supports are those which are fabricated from plate and shell elements, such as vessel skirts and saddles, and are normally subjected to a biaxial stress.
2. Linear type supports are those acting under essentially a single component of direct stress. These elements may also be subjected to shear stress. Examples of such structural elements are tension and compression struts, beams and columns subjected to bending, trusses, frames, arches, rings, and cables.
3. Component standard supports are those supports consisting of one or more generally mass-produced units usually referred to as catalog items.

This document divides the support types into the following groups.

1. Anchor
2. Rigid Rod
3. Rigid Guide
4. Rigid Strut

5. Variable Spring
6. Constant Support
7. Mechanical Snubber
8. Hydraulic Snubber

#### 5.1 Support Selection and Exemptions

Section XI is somewhat vague in the description of selection supports for examination. Therefore, the ISEP utilizes code interpretation #XI-1-83-12R-2 which states:

Component supports selected for examination shall be the supports of those nonexempt components and nonexempt portions of piping within the system boundary that are required to be examined by volumetric, surface, or visual (VT-1 or VT-3) examination methods.

NOTE 1: Code Case N-408 provides alternate rules for the examination of Class 2 piping. These alternate rules provide exemptions for piping and components on open ended piping of any size, and in addition it does not require examinations on piping welds that are less than .375 wall thickness. Therefore, examination of supports on piping which is less than .375 wall is not required. Supports that are affected by the code case are identified in the table.

#### 5.2 Additional Examinations

When the allowable acceptance standards are exceeded for a component support examination, the following additional examinations are required:

1. Examination of component supports immediately adjacent to those requiring corrective action.
2. Examination of additional supports equal in number and similar in type, design and function to those initially examined.

If any of the additional examinations require corrective measures, the remaining supports within the system of the same type, design, and function shall be examined.

#### 5.3 Successive Examinations

Component supports requiring corrective measures shall be re-examined during the next inspection period.

Re-examinations which do not require corrective measures may revert to the original schedule of successive inspections.

#### 5.4 Relief Requests

When compliance to Code examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for components subject to the examination requirements of ASME Section XI, Article IWP:

IR No.

IR-022 E-1

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-022

I. Identification of Components

Class 3, Category F-A, Item F3.10, Component Supports. (See attached table for component identification).

II. ASME B&PV Section XI Requirements

Table IWF-2500-1, requires a VT-3, visual examination.

III. Relief Requested

Relief is requested on that portion of the component that cannot be subjected to the required visual examination. (See attached table for amount of component that is accessible).

IV. Basis for Relief

The structural integrity of the piping pressure boundary was demonstrated during construction by meeting the requirements of the ASME Code Section III. All supports were inspected in accordance with the appropriate Code requirements. Weld techniques and welders were qualified in accordance with Code requirements and materials were purchased and traced in accordance with the appropriate Code and NRC requirements and guidelines.

Complete examinations meeting the requirements of the ASME Code Section XI are performed on supports adjacent to the inaccessible supports.

Since the construction and operating conditions of the inaccessible supports are similar to those of supports that were examined, it is reasonable to extend the satisfactory results of the accessible supports to the inaccessible supports.

The pressure boundary passed the required preservice hydrostatic test and first period inservice system pressure tests, and the plant has operated for a total of about 712 equivalent full power days between November 1987 and December 1990.

In summary, because of acceptable initial condition, successful examinations of adjacent supports, and successful test and operating experience, it is concluded that there is no significant impact on the overall level of plant quality and safety.

V. Alternate Examination

No.

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./ISI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
F3.10	1B21-H0050	Main Steam SS-305-605-115	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0157	Main Steam SS-305-605-115	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0167	Main Steam SS-305-605-115	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0179	Main Steam SS-305-605-115	Pipe Guide	Underwater, Geometry	0%
F1.10	1E12-H0476	RHX, SS-305-605-124	Pipe Guide	Guide in Pen. Filled w/Sealant	25%
F3.10	1P42-H0221	Emer. Closed Cool. SS-305-621-104	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P45-H0643	Emer. Service Wtr. SS-305-791-110	Pipe Guide	Guide in Pen. Filled w/Grout	0%
F3.10	2P42-H0009	Emer. Closed Cool. SS-305-623-106	Pipe Guide	Guide Partially in Penetration Filled w/Sealant	75%
F3.10	1B21-H0176	Main Steam SS-305-605-130	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0128	Main Steam SS-305-605-129	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0156	Main Steam SS-305-605-128	Pipe Guide	Underwater, Geometry	0%

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<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./ISI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
F3.10	1B21-H0158	Main Steam SS-305-605-125	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0173	Main Steam SS-305-605-123	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0175	Main Steam SS-305-605-122	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0155	Main Steam SS-305-605-112	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0168	Main Steam SS-305-605-113	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0120	Main Steam SS-305-605-114	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0159	Main Steam SS-305-605-121	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0160	Main Steam SS-305-605-120	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0186	Main Steam SS-305-605-119	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0177	Main Steam SS-305-605-118	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0163	Main Steam SS-305-605-117	Pipe Guide	Underwater, Geometry	0%
F3.10	1B21-H0164	Main Steam SS-305-605-116	Pipe Guide	Underwater, Geometry	0%

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #1R-022, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./ISI ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
F3.10	1G41-H0396	Fuel Pool Cleaning SS-305-655-114	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P42-H0115	Emer. Closed Cool. SS-305-621-106	Pipe Guide	Guide Partially in Pen. Filled w/Sealant	50%
F3.10	1P42-H0222	Emer. Closed Cool. SS-305-621-104	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P45-H0022	Emer. Closed Cool. SS-305-792-106	Pipe Anchor	Anchor in Pen. Filled w/Sealant	0%
F3.10	1P45-H0049	Emer. Closed Cool. SS-305-792-112	Pipe Anchor	Anchor in Pen. Filled w/Sealant	0%
F3.10	1P45-H0127	Emer. Closed Cool. SS-305-792-107	Pipe Anchor	Anchor in Pen. Filled w/Sealant	0%
F3.10	1P45-H0162	Emer. Closed Cool. SS-305-792-104	Pipe Anchor	Anchor in Pen. Filled w/Sealant	0%
F3.10	1P45-H0191	Emer. Service Wtr. SS-305-791-113	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P45-H0271	Emer. Service Wtr. SS-305-791-104	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P45-H0397	Emer. Service Wtr. SS-305-791-108	Pipe Guide	Underwater in Limited Access Sump	0%
F3.10	1P45-H0398	Emer. Service Wtr. SS-305-791-108	Pipe Guide	Underwater in Limited Access Sump	0%

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Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-022, Rev. 1

<u>ITEM NO.</u>	<u>COMPONENT I.D.</u>	<u>SYS./IST ISO</u>	<u>DESCRIPTION</u>	<u>NATURE OF OBSTRUCTION</u>	<u>EST % COMPLETE</u>
F3.10	1P45-H0399	Emer. Service Wtr. SS-305-791-109	Pipe Guide	Underwater in Limited Access Sump	0%
F3.10	1P45-H0400	Emer. Service Wtr. SS-305-791-109	Pipe Guide	Underwater in Limited Access Sump	0%
F3.10	1P45-H0417	Emer. Service Wtr. SS-305-791-109	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	1P45-H0430	Emer. Service Wtr. SS-305-791-102	Pipe Guide	Guide in Pen. Filled w/Sealant	0%
F3.10	2P42-H0024	Emer. Service Wtr. SS-305-623-112	Pipe Guide	Guide Partially in Pene. Filled w/Sealant	66%
F3.10	2P45-H0025	Emer. Service Wtr. SS-305-623-110	Pipe Guide	Guide Partially in Pene. Filled w/Sealant	66%

## 5.5 Inservice Examination Table

This section contains the listing of all Class 1, 2, 3, and Augmented supports subject to the examination requirements of ASME Section XI, Article IWF. The actual supports scheduled for examinations at each outage are presented to management for approval 60 days prior to commencing a scheduled refueling outage.

The information presented in the tables are defined below:

1. EXAMINATION CATEGORY - A grouping of items to be examined or tested. All supports are Category F-A.
2. ITEM NO. - A division within an examination category which separates the specific components.
3. MARK NO. - A unique identification number assigned to each pipe or component support.
4. COMPONENT DESCRIPTION - A brief description used to identify the type of support. If (WA) is included in the component description it indicates that the support has a "welded attachment" to the piping or component. Depending on the thickness and/or the code class of the component the examination of the "WA" is covered in another section, i.e., B-K-1, C-C, and D-B or D-C for Class 1, 2, and 3 respectively.
5. EXAM METHOD - This abbreviation identifies the unique non-destructive examination method required for the pipe support or component support. All components in this category require a VT-3 examination.
6. PERIOD SCHED. - This column identifies the inspection period in which the weld or component is scheduled to be examined. The period scheduled can be either 1, 2, 3, or any combination of these numbers. For those pipe supports or component supports not scheduled for examination, the letters "NS" will be inserted in place of an inspection period. An asterisk(s) in the schedule column denotes a scheduling peculiarity which will be explained at the end of the applicable category.

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-4					
F3.10	1B21-B0101A	Rigid Strut (WA) MPL 1B21G7000	VT-3	1	605-128
F3.10	1B21-B0101B	Rigid Strut (WA) MPL 1B21G7002	VT-3	1	605-112
F3.10	1B21-B0101C	Rigid Strut (WA) MPL 1B21G7003	VT-3	2	605-122
F3.10	1B21-B0101D	Rigid Strut (WA) MPL 1B21G7004	VT-3	3	605-116
F3.10	1B21-B0102B	Rigid Strut (WA) MPL 1B21G7005	VT-3	3	605-120
F3.10	1B21-B0102C	Rigid Strut (WA) MPL 1B21G7006	VT-3	3	605-127
F3.10	1B21-B0103B	Rigid Strut (WA) MPL 1B21G7007	VT-3	3	605-121
F3.10	1B21-B0103C	Rigid Strut (WA) MPL 1B21G7001	VT-3	1	605-125
F1.10	1B21-G101A	Rigid Guide (WA) MPL 1B21G7030	VT-3	2	605-101
F1.10	1B21-G101B	Rigid Guide (WA) MPL 1B21G7031	VT-3	1	605-102
F1.10	1B21-G101C	Rigid Guide (WA) MPL 1B21G7032	VT-3	3	605-103
F1.10	1B21-G101D	Rigid Guide (WA) MPL 1B21G7033	VT-3	3	605-104
F1.10	1B21-G102A	Rigid Guide (In Pen Guard Pipe)	VT-3	NS	605-107
F1.10	1B21-G102B	Rigid Guide (In Pen Guard Pipe)	VT-3	NS	605-108
F1.10	1B21-G102C	Rigid Guide (In Pen Guard Pipe)	VT-3	NS	605-109
F1.10	1B21-G102D	Rigid Guide (In Pen Guard Pipe)	VT-3	NS	605-110
F3.10	1B21-H0001	Anchor (WA)	VT-3	1	605-128
F3.10	1B21-H0002	Mech. Snubber	VT-3	2	605-128
F3.10	1B21-H0004	Mech. Snubber	VT-3	3	605-128
F3.10	1B21-H0005	Mech. Snubber	VT-3	1	605-123
F3.10	1B21-H0006	Mech. Snubber (WA)	VT-3	2	605-128
F3.10	1B21-H0007	Mech. Snubber (WA) (Tandem)	VT-3	3	605-128
F3.10	1B21-H0008	Variable Spring	VT-3	1	605-127
F3.10	1B21-H0009	Mech. Snubber (Tandem)	VT-3	2	605-127
F3.10	1B21-H0010	Mech. Snubber (WA) (Tandem)	VT-3	2	605-127
F3.10	1B21-H0011	Anchor (WA)	VT-3	3	605-127
F3.10	1B21-H0012	Mech. Snubber	VT-3	2	605-127
F3.10	1B21-H0013	Mech. Snubber (WA)	VT-3	1	605-127
F3.10	1B21-H0014	Mech. Snubber	VT-3	2	605-127
F3.10	1B21-H0015	Mech. Snubber	VT-3	3	605-113
F3.10	1B21-H0016	Anchor (WA)	VT-3	1	605-125
F3.10	1B21-H0020	Mech. Snubber (WA) (Tandem)	VT-3	2	605-125
F3.10	1B21-H0021	Mech. Snubber (WA)	VT-3	1	605-125
F3.10	1B21-H0022	Mech. Snubber	VT-3	1	605-125
F3.10	1B21-H0023	Mech. Snubber (WA)	VT-3	2	605-125

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F 1					
F3.10	1B21-H0024	Mech. Snubber	VT-3	3	605-125
F3.10	1B21-H0025	Mech. Snubber (WA) (Tandem)	VT-3	3	605-113
F3.10	1B21-H0026	Anchor (WA)	VT-3	3	605-121
F3.10	1B21-H0029	Mech. Snubber (WA) (Tandem)	VT-3	3	605-121
F3.10	1B21-H0031	Mech. Snubber (WA)	VT-3	3	605-121
F3.10	1B21-H0032	Mech. Snubber	VT-3	1	605-121
F3.10	1B21-H0033	Mech. Snubber	VT-3	2	605-121
F3.10	1B21-H0034	Variable Spring	VT-3	3	605-113
F3.10	1B21-H0035	Anchor (WA)	VT-3	2	605-120
F3.10	1B21-H0036	Variable Spring	VT-3	3	605-120
F3.10	1B21-H0038	Mech. Snubber	VT-3	1	605-120
F3.10	1B21-H0039	Mech. Snubber	VT-3	2	605-120
F3.10	1B21-H0040	Mech. Snubber	VT-3	3	605-120
F3.10	1B21-H0041	Mech. Snubber	VT-3	1	605-120
F3.10	1B21-H0042	Mech. Snubber (WA) (Tandem)	VT-3	1	605-120
F3.10	1B21-H0043	Mech. Snubber	VT-3	3	605-115
F3.10	1B21-H0044	anchor (WA)	VT-3	2	605-115
F3.10	1B21-H0045	Mech. Snubber (WA)	VT-3	3	605-115
F3.10	1B21-H0046	Mech. Snubber	VT-3	1	605-115
F3.10	1B21-H0047	Mech. Snubber (WA)	VT-3	1	605-115
F3.10	1B21-H0048	Mech. Snubber	VT-3	2	605-115
F3.10	1B21-H0049	Mech. Snubber (WA) (Tandem)	VT-3	2	605-115
F3.10	1B21-H0050	Rigid Guide (WA)	VT-3	NS**	605-115
F3.10	1B21-H0051	Mech. Snubber (Tandem)	VT-3	2	605-113
F3.10	1B21-H0052	Anchor (WA)	VT-3	2	605-130
F3.10	1B21-H0053	Variable Spring (WA)	VT-3	3	605-130
F3.10	1B21-H0054	Mech. Snubber (WA) (Tandem)	VT-3	2	605-130
F3.10	1B21-H0056	Mech. Snubber (WA)	VT-3	3	605-130
F3.10	1B21-H0057	Mech. Snubber (WA)	VT-3	3	605-130
F3.10	1B21-H0058	Mech. Snubber	VT-3	1	605-130
F3.10	1B21-H0059	Mech. Snubber	VT-3	2	605-130
F3.10	1B21-H0060	Mech. Snubber	VT-3	3	605-113
F3.10	1B21-H0061	Anchor (WA)	VT-3	3	605-117
F3.10	1B21-H0062	Variable Spring	VT-3	1	605-117
F3.10	1B21-H0063	Mech. Snubber (WA) (Tandem)	VT-3	2	605-117

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1B21-H0064	Mech. Snubber	VT-3	2	605-117
F3.10	1B21-H0065	Mech. Snubber (WA) (Tandem)	VT-3	1	605-117
F3.10	1B21-H0066	Mech. Snubber	VT-3	2	605-117
F3.10	1B21-H0067	Rigid Strut	VT-3	3	605-117
F3.10	1B21-H0068	Mech. Snubber	VT-3	1	605-117
F3.10	1B21-H0069	Mech. Snubber (WA) (Tandem)	VT-3	3	605-113
F3.10	1B21-H0070	Anchor (WA)	VT-3	3	605-116
F3.10	1B21-H0071	Mech. Snubber	VT-3	1	605-116
F3.10	1B21-H0072	Variable Spring	VT-3	2	605-116
F3.10	1B21-H0073	Mech. Snubber (WA)	VT-3	1	605-116
F3.10	1B21-H0074	Mech. Snubber (WA) (Tandem)	VT-3	3	605-116
F3.10	1B21-H0075	Mech. Snubber	VT-3	1	605-116
F3.10	1B21-H0076	Mech. Snubber	VT-3	2	605-116
F3.10	1B21-H0077	Mech. Snubber	VT-3	3	605-116
F3.10	1B21-H0078	Mech. Snubber (WA)	VT-3	3	605-116
F3.10	1B21-H0080	Anchor (WA)	VT-3	3	605-118
F3.10	1B21-H0082	Mech. Snubber	VT-3	1	605-118
F3.10	1B21-H0084	Mech. Snubber (WA)	VT-3	2	605-118
F3.10	1B21-H0085	Mech. Snubber	VT-3	3	605-118
F3.10	1B21-H0086	Mech. Snubber (WA) (Tandem)	VT-3	3	605-118
F3.10	1B21-H0087	Mech. Snubber (WA) (Tandem)	VT-3	3	605-113
F3.10	1B21-H0088	Anchor (WA)	VT-3	1	605-114
F3.10	1B21-H0089	Mech. Snubber	VT-3	2	605-114
F3.10	1B21-H0090	Anchor (WA)	VT-3	2	605-113
F3.10	1B21-H0091	Mech. Snubber	VT-3	3	605-114
F3.10	1B21-H0092	Mech. Snubber (WA) (Tandem)	VT-3	3	605-114
F3.10	1B21-H0093	Variable Spring	VT-3	1	605-114
F3.10	1B21-H0094	Mech. Snubber	VT-3	2	605-114
F3.10	1B21-H0095	Mech. Snubber (WA) (Tandem)	VT-3	1	605-114
F3.10	1B21-H0096	Mech. Snubber	VT-3	3	605-114
F3.10	1B21-H0097	Anchor (WA)	VT-3	1	605-123
F3.10	1B21-H0098	Mech. Snubber (WA) (Tandem)	VT-3	2	605-123
F3.10	1B21-H0099	Variable Spring	VT-3	3	605-123
F3.10	1B21-H0100	Mech. Snubber	VT-3	1	605-123

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>METHOD</u>	<u>FREQ.</u>	<u>INT.</u>
EXAMINATION CATEGORY:					
F3.10	1B21-H0201	Mech. Snubber	VT-3	2	605-100
F1.10	1B21-H101A(A)	Variable Spring MPL 1B21G7050A	VT-3	1	605-101
F1.10	1B21-H101A(B)	Variable Spring MPL 1B21G7094	VT-3	1	605-101
F1.10	1B21-H101B(A)	Variable Spring MPL 1B21G7052	VT-3	2	605-102
F1.10	1B21-H101B(B)	Variable Spring MPL 1B21G7053	VT-3	2	605-102
F1.10	1B21-H101C(A)	Variable Spring MPL 1B21G7054	VT-3	2	605-103
F1.10	1B21-H101C(B)	Variable Spring MPL 1B21G7055	VT-3	2	605-103
F1.10	1B21-H101D(A)	Variable Spring MPL 1B21G7056	VT-3	3	605-104
F1.10	1B21-H101D(B)	Variable Spring MPL 1B21G7057	VT-3	3	605-104
F3.10	1B21-H0102	Mech. Snubber	VT-3	1	605-123
F1.10	1B21-H0102B	Variable Spring MPL 1B21H7051	VT-3	2	605-102
F1.10	1B21-H0102C	Variable Spring MPL 1B21H7059	VT-3	1	605-103
F3.10	1B21-H0103	Mech. Snubber	VT-3	2	605-123
F3.10	1B21-H0104	Variable Spring	VT-3	3	605-123
F3.10	1B21-H0105	Anchor (WA)	VT-3	2	605-124
F3.10	1B21-H0106	Mech. Snubber (WA) (Tandem)	VT-3	3	605-123
F3.10	1B21-H0107	Mech. Snubber (WA) (Tandem)	VT-3	1	605-123
F3.10	1B21-H0108	Mech. Snubber	VT-3	2	605-124
F3.10	1B21-H0109	Anchor (WA)	VT-3	3	605-122
F3.10	1B21-H0110	Rigid Strut	VT-3	1	605-122
F3.10	1B21-H0111	Rigid Strut	VT-3	2	605-122
F3.10	1B21-H0112	Mech. Snubber	VT-3	3	605-117
F3.10	1B21-H0113	Mech. Snubber	VT-3	1	605-122
F3.10	1B21-H0114	Mech. Snubber	VT-3	2	605-122
F3.10	1B21-H0115	Mech. Snubber (WA)	VT-3	3	605-122
F3.10	1B21-H0116	Variable Spring (WA)	VT-3	1	605-122
F3.10	1B21-H0117	Mech. Snubber (WA) (Tandem)	VT-3	3	605-122
F3.10	1B21-H0118	Mech. Snubber (Tandem)	VT-3	1	605-122
F3.10	1B21-H0119	Mech. Snubber (WA) (Tandem)	VT-3	3	605-122
F3.10	1B21-H0120	Rigid Guide (WA)	VT-3	NS**	605-114
F3.10	1B21-H0121	Anchor (WA)	VT-3	2	605-129
F3.10	1B21-H0122	Mech. Snubber (WA)	VT-3	1	605-129
F3.10	1B21-H0124	Mech. Snubber	VT-3	2	605-129
F3.10	1B21-H0125	Mech. Snubber (WA)	VT-3	1	605-129
F3.10	1B21-H0126	Mech. Snubber	VT-3	2	605-129

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1B21-H0127	Mech. Snubber (WA) (Tandem)	VT-3	3	605-129
F3.10	1B21-H0128	Rigid Guide (WA)	VT-3	NS**	605-129
F3.10	1B21-H0129	Mech. Snubber (WA)	VT-3	3	605-119
F3.10	1B21-H0130	Mech. Snubber	VT-3	1	605-124
F3.10	1B21-H0132	Variable Spring (WA)	VT-3	3	605-124
F3.10	1B21-H0133	Mech. Snubber (WA)	VT-3	3	605-127
F3.10	1B21-H0134	Rigid Guide (WA)	VT-3	1	605-127
F3.10	1B21-H0135	Mech. Snubber (WA) (Tandem)	VT-3	1	605-127
F3.10	1B21-H0136	Variable Spring	VT-3	1	605-126
F3.10	1B21-H0138	Mech. Snubber (WA)	VT-3	2	605-126
F3.10	1B21-H0139	Mech. Snubber	VT-3	3	605-126
F3.10	1B21-H0140	Mech. Snubber (WA) (Tandem)	VT-3	3	605-126
F3.10	1B21-H0141	Mech. Snubber (WA) (Tandem)	VT-3	2	605-126
F3.10	1B21-H0142	Anchor (WA)	VT-3	3	605-112
F3.10	1B21-H0143	Mech. Snubber (WA)	VT-3	1	605-124
F3.10	1B21-H0144	Variable Spring	VT-3	2	605-112
F3.10	1B21-H0145	Mech. Snubber	VT-3	3	605-112
F3.10	1B21-H0146	Mech. Snubber	VT-3	1	605-112
F3.10	1B21-H0147	Mech. Snubber (WA)	VT-3	1	605-124
F3.10	1B21-H0148	Mech. Snubber	VT-3	2	605-112
F3.10	1B21-H0149	Variable Spring (WA)	VT-3	1	605-112
F3.10	1B21-H0150	Mech. Snubber (WA) (Tandem)	VT-3	2	605-112
F3.10	1B21-H0151	Mech. Snubber (WA) (Tandem)	VT-3	2	605-112
F3.10	1B21-H0152	Mech. Snubber	VT-3	3	605-112
F3.10	1B21-H0153	Mech. Snubber (WA) (Tandem)	VT-3	2	605-112
F3.10	1B21-H0154	Mech. Snubber (WA) (Tandem)	VT-3	3	605-112
F3.10	1B21-H0155	Rigid Guide (WA)	VT-3	NS**	605-112
F3.10	1B21-H0156	Rigid Guide (WA)	VT-3	NS**	605-128
F3.10	1B21-H0157	Rigid Guide (WA)	VT-3	NS**	605-127
F3.10	1B21-H0158	Rigid Guide (WA)	VT-3	NS**	605-125
F3.10	1B21-H0159	Rigid Guide (WA)	VT-3	NS**	605-121
F3.10	1B21-H0160	Rigid Guide (WA)	VT-3	NS**	605-120
F3.10	1B21-H0161	Rigid Guide (WA)	VT-3	3	605-124
F3.10	1B21-H0162	Mech. Snubber (WA) (Tandem)	VT-3	3	605-124
F3.10	1B21-H0163	Rigid Guide (WA)	VT-3	NS**	605-117

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-307-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1B21-H0164	Rigid Guide (WA)	VT-3	NS**	605-116
F3.10	1B21-H0165	Mech. Snubber (WA)	VT-3	1	605-121
F3.10	1B21-H0166	Mech. Snubber (WA)	VT-3	3	605-114
F3.10	1B21-H0167	Rigid Guide (WA)	VT-3	NS**	605-126
F3.10	1B21-H0168	Rigid Guide (WA)	VT-3	NS**	605-113
F3.10	1B21-H0169	Rigid Strut	VT-3	2	605-121
F3.10	1B21-H0170	Mech. Snubber (WA) (Tandem)	VT-3	1	605-124
F3.10	1B21-H0171	Anchor (WA)	VT-3	2	605-126
F3.10	1B21-H0172	Rigid Strut	VT-3	3	605-117
F3.10	1B21-H0173	Rigid Guide (WA)	VT-3	NS**	605-123
F3.10	1B21-H0174	Mech. Snubber (WA) (Tandem)	VT-3	2	605-122
F3.10	1B21-H0175	Rigid Guide (WA)	VT-3	NS**	605-122
F3.10	1B21-H0176	Rigid Guide (WA)	VT-3	NS**	605-130
F3.10	1B21-H0177	Rigid Guide (WA)	VT-3	NS**	605-118
F3.10	1B21-H0178	Mech. Snubber (WA) (Tandem)	VT-3	3	605-120
F3.10	1B21-H0179	Rigid Guide (WA)	VT-3	NS**	605-124
F3.10	1B21-H0180	Anchor (WA)	VT-3	3	605-119
F3.10	1B21-H0181	Mech. Snubber (WA) (Tandem)	VT-3	1	605-119
F3.10	1B21-H0183	Mech. Snubber	VT-3	2	605-119
F3.10	1B21-H0184	Mech. Snubber	VT-3	3	605-119
F3.10	1B21-H0185	Mech. Snubber	VT-3	1	605-119
F3.10	1B21-H0186	Rigid Guide (WA)	VT-3	1	605-119
F3.10	1B21-H0187	Mech. Snubber (WA) (Tandem)	VT-3	3	605-120
F3.10	1B21-H0188	Rigid Strut	VT-3	2	605-120
F3.10	1B21-H0191	Mech. Snubber (WA)	VT-3	2	605-118
F3.10	1B21-H0192	Rigid Guide (WA)	VT-3	NS**	605-118
F3.10	1B21-H0201	Rigid Strut	VT-3	3	605-121
F3.10	1B21-H0202	Rigid Guide	VT-3	1	605-121
F3.10	1B21-H0203	Rigid Strut (WA)	VT-3	3	605-116
F3.10	1B21-H0204	Rigid Strut (WA)	VT-3	1	605-130
F3.10	1B21-H0205	Rigid Strut (WA) (Tandem)	VT-3	1	605-129
F3.10	1B21-H0206	Rigid Strut (WA)	VT-3	2	605-127
F3.10	1B21-H0207	Rigid Strut (WA)	VT-3	3	605-127
F3.10	1B21-H0208	Rigid Strut (WA)	VT-3	3	605-125
F3.10	1B21-H0209	Rigid Strut (WA)	VT-3	3	605-124

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1B21-H0210	Rigid Strut (WA)	VT-3	3	605-126
F3.10	1B21-H0211	Rigid Strut (WA)	VT-3	1	605-123
F3.10	1B21-H0212	Rigid Strut (WA)	VT-3	1	605-122
F3.10	1B21-H0213	Rigid Strut (WA)	VT-3	1	605-112
F3.10	1B21-H0214	Rigid Strut (WA)	VT-3	2	605-113
F3.10	1B21-H0215	Rigid Strut (WA)	VT-3	3	605-114
F3.10	1B21-H0216	Rigid Strut (WA)	VT-3	3	605-115
F3.10	1B21-H0217	Rigid Strut (WA)	VT-3	2	605-121
F3.10	1B21-H0218	Rigid Strut (WA)	VT-3	1	605-120
F3.10	1B21-H0219	Rigid Strut (WA) (Tandem)	VT-3	1	605-119
F3.10	1B21-H0220	Rigid Strut (WA)	VT-3	2	605-118
F3.10	1B21-H0221	Rigid Strut (WA)	VT-3	2	605-117
F3.10	1B21-H0222	Mechanical Snub. (WA)	VT-3	3	605-119
F3.10	1B21-H0406	Rigid Strut	VT-3	1	605-125
F3.10	1B21-H0407	Rigid Strut	VT-3	2	605-125
F3.10	1B21-H0408	Mechanical Snub.	VT-3	3	605-125
F3.10	1B21-H0409	Variable Spring (WA)	VT-3	3	605-125
F3.10	1B21-H0410	Mechanical Snub.	VT-3	1	605-125
F3.10	1B21-H0411	Rigid Guide	VT-3	2	605-125
F3.10	1B21-H0412	Mechanical Snub. (WA)	VT-3	3	605-121
F3.10	1B21-H0413	Variable Spring (WA)	VT-3	1	605-121
F3.10	1B21-H0414	Rigid Guide	VT-3	2	605-121
F3.10	1B21-H0415	Rigid Strut	VT-3	3	605-121
F3.10	1B21-H0416	Variable Spring (WA)	VT-3	1	605-115
F3.10	1B21-H0419	Variable Spring (WA)	VT-3	3	605-118
F3.10	1B21-H0420	Variable Spring (WA)	VT-3	1	605-112
F3.10	1B21-H0421	Mechanical Snub.	VT-3	2	605-112
F3.10	1B21-H0423	Mechanical Snub. (WA)	VT-3	3	605-112
F3.10	1B21-H0424	Variable Spring	VT-3	2	605-126
F3.10	1B21-H0425	Variable Spring	VT-3	2	605-122
F3.10	1B21-H0427	Mechanical Snub. (WA)	VT-3	3	605-126
F3.10	1B21-H0428	Variable Spring (WA)	VT-3	2	605-113
F3.10	1B21-H0429	Variable Spring	VT-3	3	605-130
F3.10	1B21-H0433	Variable Spring (WA)	VT-3	3	605-129
F3.10	1B21-H0436	Rigid Strut	VT-3	1	605-117

Inservice Examination Interval Listing (Cont.)

ITPM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305
EXAMINATION CATEGORY: F-A					
F3.10	1B21-H0437	Variable Spring (WA)	VT-3	1	605-128
F3.10	1B21-H0438	Variable Spring	VT-3	2	605-128
F3.10	1B21-H0439	Variable Spring (WA)	VT-3	3	605-117
F1.10	1B21-H0441	Rigid Guide	VT-3	2	605-105
F1.10	1B21-H0442	Variable Spring (WA < .625")	VT-3	2	605-105
F1.10	1B21-H0443	Rigid Guide	VT-3	2	605-105
F1.10	1B21-H0444	Rigid Guide	VT-3	1	605-106
F1.10	1B21-H0445	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0446	Mechanical Snub. (WA < .625") (Tandem)	VT-3	2	605-106
F1.10	1B21-H0447	Mechanical Snub.	VT-3	2	605-106
F1.10	1B21-H0448	Variable Spring	VT-3	1	605-106
F1.10	1B21-H0449	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0450	Mechanical Snub.	VT-3	2	605-106
F1.10	1B21-H0451	Variable Spring	VT-3	2	605-106
F1.10	1B21-H0452	Mechanical Snub.	VT-3	1	605-106
F1.10	1B21-H0453	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0454	Variable Spring	VT-3	2	605-106
F1.10	1B21-H0458	Mechanical Snub.	VT-3	2	605-106
F1.10	1B21-H0459	Mechanical Snub.	VT-3	1	605-106
F1.10	1B21-H0462	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0471	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0472	Mechanical Snub.	VT-3	2	605-106
F1.10	1B21-H0474	Mechanical Snub.	VT-3	1	605-106
F1.10	1B21-H0475	Variable Spring	VT-3	1	605-106
F1.10	1B21-H0486	Rigid Guide	VT-3	3	605-105
F1.10	1B21-H0489	Rigid Guide	VT-3	3	605-105
F1.10	1B21-H0490	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0491	Mechanical Snub.	VT-3	3	605-106
F1.10	1B21-H0492	Rigid Guide	VT-3	1	605-105
F1.10	1B21-H0493	Rigid Guide	VT-3	3	605-105
F3.10	1B21-H5000	Rigid Guide	VT-3	1	605-125
F3.10	1P21-H5001	Variable Spring	VT-3	2	605-125
F3.10	1B21-QUE-01-SP	Anchor for Quencher for SRV F041A (WA)	VT-3	1	605-128
F3.10	1B21-QUE-02-SP	Anchor for Quencher for SRV F041B (WA)	VT-3	2	605-113
F3.10	1B21-QUE-03-SP	Anchor for Quencher for SRV F041C (WA)	VT-3	1	605-122

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1B21-QUE-04-SP	Anchor for Quencher for SRV F041D (WA)	VT-3	2	605-118
F3.10	1B21-QUE-05-SP	Anchor for Quencher for SRV F041E (WA)	VT-3	2	605-130
F3.10	1B21-QUE-06-SP	Anchor for Quencher for SRV F041F (WA)	VT-3	3	605-115
F3.10	1B21-QUE-07-SP	Anchor for Quencher for SRV F041G (WA)	VT-3	3	605-125
F3.10	1B21-QUE-08-SP	Anchor for Quencher for SRV F041K (WA)	VT-3	1	605-120
F3.10	1B21-QUE-09-SP	Anchor for Quencher for SRV F047B (WA)	VT-3	1	605-112
F3.10	1B21-QUE-10-SP	Anchor for Quencher for SRV F047C (WA)	VT-3	3	605-126
F3.10	1B21-QUE-11-SP	Anchor for Quencher for SRV F047D (WA)	VT-3	2	605-119
F3.10	1B21-QUE-12-SP	Anchor for Quencher for SRV F047E (WA)	VT-3	2	605-121
F3.10	1B21-QUE-13-SP	Anchor for Quencher for SRV F047G (WA)	VT-3	3	605-127
F3.10	1B21-QUE-14-SP	Anchor for Quencher for SRV F047H (WA)	VT-3	2	605-117
F3.10	1B21-QUE-15-SP	Anchor for Quencher for SRV F051A (WA)	VT-3	2	605-129
F3.10	1B21-QUE-16-SP	Anchor for Quencher for SRV F051B (WA)	VT-3	3	605-114
F3.10	1B21-QUE-17-SP	Anchor for Quencher for SRV F051C (WA)	VT-3	1	605-123
F3.10	1B21-QUE-18-SP	Anchor for Quencher for SRV F051D (WA)	VT-3	3	605-116
F3.10	1B21-QUE-19-SP	Anchor for Quencher for SRV F051G (WA)	VT-3	3	605-124
F1.10	1B21-S101B	Hydraulic Snubber MPL 1B21G7070	VT-3	2	605-102
F1.10	1B21-S101C	Hydraulic Snubber MPL 1B21G7071	VT-3	1	605-103
F1.10	1B21-S102A	Hydraulic Snubber MPL 1B21G7072	VT-3	3	605-101
F1.10	1B21-S102B	Hydraulic Snubber MPL 1B21G7073	VT-3	3	605-102
F1.10	1B21-S102C	Hydraulic Snubber MPL 1B21G7074	VT-3	1	605-103
F1.10	1B21-S102D	Hydraulic Snubber MPL 1B21G7075	VT-3	2	605-104
F1.10	1B21-S103A	Hydraulic Snubber MPL 1B21G7076	VT-3	1	605-101
F1.10	1B21-S103B	Hydraulic Snubber MPL 1B21G7077	VT-3	1	605-101
F1.10	1B21-S103C	Hydraulic Snubber MPL 1B21G7078	VT-3	2	605-103
F1.10	1B21-S103D	Hydraulic Snubber MPL 1B21G7079	VT-3	3	605-104
F1.10	1B21-S104A	Hydraulic Snubber MPL 1B21G7080	VT-3	1	605-101
F1.10	1B21-S104B	Hydraulic Snubber MPL 1B21G7081	VT-3	2	605-102
F1.10	1B21-S104C	Hydraulic Snubber MPL 1B21G7082	VT-3	2	605-103
F1.10	1B21-S104D	Hydraulic Snubber MPL 1B21G7083	VT-3	3	605-104
F1.10	1B21-S105A	Hydraulic Snubber MPL 1B21G7084	VT-3	1	605-101
F1.10	1B21-S105B	Hydraulic Snubber MPL 1B21G7085	VT-3	1	605-102
F1.10	1B21-S105C	Hydraulic Snubber MPL 1B21G7086	VT-3	3	605-103
F1.10	1B21-S105D	Hydraulic Snubber MPL 1B21G7087	VT-3	3	605-104
F1.10	1B21-S106B	Hydraulic Snubber MPL 1B21G7088	VT-3	1	605-102

Inservice Examination Job List Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: F-A					
F1.10	1B21-S106C	Hydraulic Snubber MPL 1B21G7089	VT-3	3	605-103
F1.10	1B21-S107B	Hydraulic Snubber MPL 1B21G7090	VT-3	1	605-102
F1.10	1B21-S107C	Hydraulic Snubber MPL 1B21G7091	VT-3	3	605-103
F1.10	1B21-S108B	Hydraulic Snubber MPL 1B21G7092	VT-3	1	605-102
F1.10	1B21-S106C	Hydraulic Snubber MPL 1B21G7093	VT-3	1	605-103
F1.10	1B33-B301A	Rigid Strut, Pump, MPL 1B33G7000A	VT-3	1	602-102
F1.10	1B33-B301B	Rigid Strut, Pump, MPL 1B33G7000B	VT-3	1	602-104
F1.10	1B33-B302A	Rigid Strut, Pump, MPL 1B33G7001A	VT-3	2	602-102
F1.10	1B33-B302B	Rigid Strut, Pump, MPL 1B33G7001B	VT-3	2	602-104
F1.10	1B33-H0001	Rigid Guide	VT-3	1	671-101
F1.10	1B33-H0002	Mechanical Snub. (Tandem)	VT-3	1	671-101
F1.10	1B33-H0004	Rigid Guide	VT-3	2	671-101
F1.10	1B33-H0005	Mechanical Snub.	VT-3	2	671-101
F1.10	1B33-H301A	Constant Support, Pump, MPL 1B33G7013A	VT-3	3	602-102
F1.10	1B33-H301B	Constant Support, Pump, MPL 1B33G7013B	VT-3	3	602-104
F1.10	1B33-H302A	Constant Support, Pump, MPL 1B33G7014A	VT-3	1	602-102
F1.10	1B33-H302B	Constant Support, Pump, MPL 1B33G7014B	VT-3	1	602-104
F1.10	1B33-H303A	Constant Support, Pump, MPL 1B33G7015A	VT-3	2	602-102
F1.10	1B33-H303B	Constant Support, Pump, MPL 1B33G7015B	VT-3	2	602-104
F1.10	1B33-H304A	Constant Support, Pump, MPL 1B33G7016A	VT-3	3	602-102
F1.10	1B33-H304B	Constant Support, Pump, MPL 1B33G7016B	VT-3	3	602-104
F1.10	1B33-H305A	Variable Spring (VA) MPL 1B33G7017A	VT-3	1	602-102
F1.10	1B33-H305B	Variable Spring (VA) MPL 1B33G7017B	VT-3	2	602-104
F1.10	1B33-H306A	Variable Spring (VA) MPL 1B33G7018A	VT-3	1	602-102
F1.10	1B33-H306B	Variable Spring (VA) MPL 1B33G7018B	VT-3	2	602-104
F1.10	1B33-H351A	Variable Spring, MPL 1B33G7019A	VT-3	1	602-101
F1.10	1B33-H351B	Variable Spring, MPL 1B33G7019B	VT-3	1	602-103
F1.10	1B33-H352A	Variable Spring, MPL 1B33G7020A	VT-3	3	602-101
F1.10	1B33-H352B	Variable Spring, MPL 1B33G7020B	VT-3	3	602-103
F1.10	1B33-H353A	Variable Spring, MPL 1B33G7021A	VT-3	2	602-101
F1.10	1B33-H353B	Variable Spring, MPL 1B33G7021B	VT-3	3	602-103
F1.10	1B33-H354A	Variable Spring, MPL 1B33G7022A	VT-3	2	602-101
F1.10	1B33-H354B	Variable Spring, MPL 1B33G7022B	VT-3	3	602-103
F1.10	1B33-H355A	Variable Spring, MPL 1B33G7023A	VT-3	1	602-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1B33-H355B	Variable Spring, MPL 1B33G7023B	VT-3	2	602-104
F1.10	1B33-H356A	Variable Spring, MPL 1B33G7024A	VT-3	1	602-102
F1.10	1B33-H356B	Variable Spring, MPL 1B33G7024B	VT-3	1	602-104
F1.10	1B33-H5000	Rigid Guide	VT-3	3	671-102
F1.10	1B33-H5001	Rigid Guide	VT-3	3	671-102
F1.10	1B33-S301A	Hydraulic Snub., MPL 1B33G7046A	VT-3	3	602-102
F1.10	1B33-S301B	Hydraulic Snub., MPL 1B33G7046B	VT-3	1	602-104
F1.10	1B33-S302A	Hydraulic Snub., MPL 1B33G7047A	VT-3	3	602-102
F1.10	1B33-S302B	Hydraulic Snub., MPL 1B33G7047B	VT-3	1	602-104
F1.10	1B33-S303A	Hydraulic Snub., MPL 1B33G7048A	VT-3	3	602-102
F1.10	1B33-S303B	Hydraulic Snub., MPL 1B33G7048B	VT-3	2	602-104
F1.10	1B33-S304A	Hydraulic Snub., MPL 1B33G7049A	VT-3	1	602-102
F1.10	1B33-S304B	Hydraulic Snub., MPL 1B33G7049B	VT-3	2	602-104
F1.10	1B33-S305A	Hydraulic Snub., MPL 1B33G7050A	VT-3	3	602-102
F1.10	1B33-S305B	Hydraulic Snub., MPL 1B33G7050B	VT-3	3	602-104
F1.10	1B33-S306A	Hydraulic Snub., MPL 1B33G7051A	VT-3	3	602-102
F1.10	1B33-S306B	Hydraulic Snub., MPL 1B33G7051B	VT-3	2	602-104
F1.10	1B33-S351A	Hydraulic Snub. (VA), MPL 1B33G7052A	VT-3	3	602-101
F1.10	1B33-S351B	Hydraulic Snub. (WA), MPL 1B33G7052B	VT-3	2	602-103
F1.10	1B33-S352A	Hydraulic Snub. (WA), MPL 1B33G7053A	VT-3	3	602-101
F1.10	1B33-S352B	Hydraulic Snub. (WA), MPL 1B33G7053B	VT-3	2	602-103
F1.10	1B33-S353A	Hydraulic Snub. (WA), MPL 1B33G7054A	VT-3	3	602-101
F1.10	1B33-S353B	Hydraulic Snub. (WA), MPL 1B33G7054B	VT-3	2	602-103
F1.10	1B33-S354A	Hydraulic Snub. (WA), MPL 1B33G7055A	VT-3	3	602-101
F1.10	1B33-S354B	Hydraulic Snub. (WA), MPL 1B33G7055B	VT-3	2	602-103
F1.10	1B33-S356A	Hydraulic Snub., MPL 1B33G7056A	VT-3	1	602-102
F1.10	1B33-S356B	Hydraulic Snub., MPL 1B33G7056B	VT-3	1	602-104
F1.10	1B33-S357A	Hydraulic Snub., MPL 1B33G7057	VT-3	2	602-102
F1.10	1B33-S357B	Hydraulic Snub., MPL 1B33G7057B	VT-3	2	602-104
F1.10	1B33-S358A	Hydraulic Snub., MPL 1B33G7058A	VT-3	3	602-102
F1.10	1B33-S358B	Hydraulic Snub., MPL 1B33G7058B	VT-3	1	602-104
F1.10	1B33-S359A	Hydraulic Snub., MPL 1B33G7059A	VT-3	1	602-102
F1.10	1B33-S359B	Hydraulic Snub., MPL 1B33G7059B	VT-3	1	602-102
F1.10	1B33-S360A	Hydraulic Snub., MPL 1B33G7060A	VT-3	2	602-104
F1.10	1B33-S360B	Hydraulic Snub., MPL 1B33G7060B	VT-3	2	602-102
F1.10	1B33-S360B	Hydraulic Snub., MPL 1B33G7060B	VT-3	3	602-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-705-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1B33-S361A	Hydraulic Snub., MPL 1B33G7061A	VT-3	1	602-102
F1.10	1B33-S361B	Hydraulic Snub., MPL 1B33G7061B	VT-3	3	602-104
F1.10	1B33-S362A	Hydraulic Snub., MPL 1B33G7062A	VT-3	3	602-102
F1.10	1B33-S362B	Hydraulic Snub., MPL 1B33G7062B	VT-3	3	602-104
F1.10	1B33-S363A	Hydraulic Snub., MPL 1B33G7063A	VT-3	3	602-102
F1.10	1B33-S363B	Hydraulic Snub., MPL 1B33G7063B	VT-3	2	602-104
F1.10	1B33-S369A	Hydraulic Snub., Pump, MPL 1B33G7064A	VT-3	1	602-102
F1.10	1B33-S369B	Hydraulic Snub., Pump, MPL 1B33G7064B	VT-3	1	602-104
F1.10	1B33-S370A	Hydraulic Snub., Pump, MPL 1B33G7065A	VT-3	2	602-102
F1.10	1B33-S370B	Hydraulic Snub., Pump, MPL 1B33G7065B	VT-3	2	602-104
F1.10	1B33-S371A	Hydraulic Snub., Pump, MPL 1B33G7066A	VT-3	3	602-102
F1.10	1B33-S371B	Hydraulic Snub., Pump, MPL 1B33G7066B	VT-3	3	602-104
F1.10	1B33-S372A	Hydraulic Snub., Pump (WA), MPL 1B33G7067A	VT-3	1	602-102
F1.10	1B33-S372B	Hydraulic Snub., Pump (WA), MPL 1B33G7067B	VT-3	2	602-104
F1.10	1B33-S373A	Hydraulic Snub., Pump (WA), MPL 1B33G7068A	VT-3	1	602-102
F1.10	1B33-S373B	Hydraulic Snub., Pump (WA), MPL 1B33G7068B	VT-3	2	602-104
F1.10	1B33-S374A	Hydraulic Snub., Pump (WA), MPL 1B33G7069A	VT-3	2	602-102
F1.10	1B33-S374B	Hydraulic Snub., Pump (WA), MPL 1B33G7069B	VT-3	3	602-104
F1.10	1B33-S375A	Hydraulic Snub., Pump (WA), MPL 1B33G7070A	VT-3	2	602-102
F1.10	1B33-S375B	Hydraulic Snub., Pump (WA), MPL 1B33G7070B	VT-3	3	602-104
F2.10	1C11-H0031	Rigid Guide (WA)	VT-3	1	871-103
F2.10	1C11-H0032	Rigid Guide (WA)	VT-3	1	871-103
F2.10	1C11-H0033	Rigid Guide (WA)	VT-3	1	871-103
F2.10	1C11-H0036	Rigid Strut	VT-3	2	871-103
F2.10	1C11-H0037	Rigid Strut	VT-3	3	871-103
F2.10	1C11-H0038	Rigid Guide (WA)	VT-3	2	871-103
F2.10	1C11-H0039	Rigid Guide (WA)	VT-3	2	871-103
F2.10	1C11-H0040	Rigid Guide (WA)	VT-3	3	871-104
F2.10	1C11-H0041	Rigid Guide (WA)	VT-3	2	871-104
F2.10	1C11-H0042	Rigid Guide (WA)	VT-3	2	871-104
F2.10	1C11-H0043	Rigid Guide (WA)	VT-3	2	871-104
F2.10	1C11-H0044	Rigid Strut	VT-3	3	871-104
F2.10	1C11-H0045	Rigid Strut	VT-3	3	871-104
F2.10	1C11-H0046	Rigid Guide (WA)	VT-3	1	871-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1C11-H0047	Rigid Strut	VT-3	1	871-101
F2.10	1C11-H0048	Rigid Guide (WA)	VT-3	1	871-101
F2.10	1C11-H0049	Rigid Guide (WA)	VT-3	2	871-101
F2.10	1C11-H0050	Rigid Strut	VT-3	3	871-101
F2.10	1C11-H0051	Rigid Guide (WA)	VT-3	2	871-101
F2.10	1C11-H0052	Rigid Guide (WA)	VT-3	2	871-101
F2.10	1C11-H0053	Rigid Guide (WA)	VT-3	2	871-101
F2.10	1C11-H0054	Rigid Strut	VT-3	3	871-102
F2.10	1C11-H0056	Rigid Guide (WA)	VT-3	2	871-102
F2.10	1C11-H0057	Rigid Guide (WA)	VT-3	2	871-102
F2.10	1C11-H0059	Rigid Strut	VT-3	1	871-102
F2.10	1C11-H0060	Rigid Guide (WA)	VT-3	2	871-102
F5.10	1C11-H0634	Rigid Strut (Augmented HEP/IBER)	VT-3	2	871-105
F2.10	1C11-H0659	Mechanical Snub. (WA)	VT-3	1	871-102
F2.10	1C11-H0660	Rigid Strut	VT-3	2	871-101
F2.10	1C11-H0661	Mechanical Snub. (WA)	VT-3	3	871-101
F2.10	1C11-H0662	Mechanical Snub. (WA)	VT-3	2	871-104
F2.10	1C11-H0663	Mechanical Snub.	VT-3	3	871-103
F2.10	1C11-H0665	Rigid Strut	VT-3	1	871-104
F2.10	1C11-H0666	Mechanical Snub. (WA)	VT-3	2	871-104
F2.10	1C11-H0667	Rigid Strut	VT-3	3	871-103
F2.10	1C11-H0668	Rigid Strut	VT-3	3	871-103
F2.10	1C11-H0673	Mechanical Snub.	VT-3	2	871-101
F2.10	1C11-H0674	Rigid Strut	VT-3	2	871-101
F2.10	1C11-H0675	Mechanical Snub. (WA)	VT-3	1	871-102
F5.10	1C11-H0695	Rigid Anchor (Augmented HEP/IBER)	VT-3	2	871-105
F2.10	1C11-H5013	Mechanical Snub.	VT-3	1	871-101
F2.10	1C11-H5014	Mechanical Snub.	VT-3	1	871-103
F5.10	1C11-H5161	Rigid Guide (Augmented HEP/IBER)	VT-3	2	871-105
F1.10	1C41-H0056	Rigid Strut	VT-3	3	691-101
F1.10	1C41-H0059	Rigid Guide	VT-3	1	691-101
F1.10	1C41-H0061	Rigid Guide	VT-3	2	691-101
F1.10	1C41-H0063	Rigid Strut	VT-3	2	691-101
F1.10	1C41-H0064	Rigid Guide	VT-3	2	691-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1C41-H0065	Rigid Guide	VT-3	3	691-101
F1.10	1C41-H0066	Rigid Guide	VT-3	3	691-101
F1.10	1C41-H0067	Mechanical Snub.	VT-3	3	691-101
F1.10	1C41-H0068	Variable Spring	VT-3	1	691-101
F1.10	1C41-H0069	Rigid Strut	VT-3	1	691-101
F1.10	1C41-H0109	Mechanical Snub. (Tandem)	VT-3	1	691-101
F1.10	1C41-H0110	Mechanical Snub.	VT-3	2	691-101
F1.10	1C41-H0119	Rigid Guide	VT-3	3	691-101
F1.10	1C41-H5000	Mechanical Snub.	VT-3	1	691-101
F1.10	1C41-H5001	Mechanical Snub.	VT-3	1	691-101
F1.10	1C41-H5002	Mechanical Snub.	VT-3	2	691-101
F1.10	1C41-H5003	Mechanical Snub.	VT-3	2	691-101
F1.10	1C41-H5004	Rigid Guide	VT-3	3	691-101
F1.10	1C41-H5005	Mechanical Snub.	VT-3	3	691-101
F1.10	1C41-H5021	Rigid Guide	VT-3	1	691-101
F1.10	1C41-H5022	Rigid Guide	VT-3	3	691-101
F2.10	1E12-B001A-SB1-SP	Rigid, Heat Exchanger Support (WA)	VT-3	1	641-121
F2.10	1E12-B001A-SB2-SP	Rigid, Heat Exchanger Support (WA)	VT-3	2	641-121
F2.10	1E12-B001A-SB3-SP	Rigid, Heat Exchanger Support (WA)	VT-3	3	641-121
F2.10	1E12-B001A-SB4-SP	Rigid, Heat Exchanger Support (WA)	VT-3	3	641-121
F2.10	1E12-B001B-SB1-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SB2-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SB3-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SB4-SP	Rigid, Heat Exchanger Support (WA)	VT-3	S	643-121
F2.10	1E12-B001C-SB1-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SB2-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SB3-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SB4-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	642-122
F2.10	1E12-B001D-SB1-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SB2-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SB3-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SB4-SP	Rigid, Heat Exchanger Support (WA)	VT-3	NS	643-123
F2.10	1E12-B001A-SL1-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	1	641-121
F2.10	1E12-B001A-SL2-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	2	641-121

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-B001A-SL3-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	1	641-121
F2.10	1E12-B001A-SL4-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	2	641-121
F2.10	1E12-B001B-SL1-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SL2-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SL3-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-121
F2.10	1E12-B001B-SL4-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-121
F2.10	1E12-B001C-SL1-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SL2-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SL3-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	642-122
F2.10	1E12-B001C-SL4-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	642-122
F2.10	1E12-B001D-SL1-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SL2-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SL3-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-123
F2.10	1E12-B001D-SL4-SP	Rigid, Heat Exchanger Guide (WA)	VT-3	NS	643-123
F2.10	1E12-C002A-SP1	Anchor, Pump Support	VT-3	1	641-120
F2.10	1E12-C002A-SP2	Rigid, Pump Guide (WA)	VT-3	3	641-120
F2.10	1E12-C002A-SP3	Rigid, Pump Guide (WA)	VT-3	3	641-120
F2.10	1E12-C002A-SP4	Rigid, Pump Guide (WA)	VT-3	3	641-120
F2.10	1E12-C002B-SP1	Anchor, Pump Support	VT-3	NS	641-123
F2.10	1E12-C002B-SP2	Rigid, Pump Guide (WA)	VT-3	NS	641-123
F2.10	1E12-C002B-SP3	Rigid, Pump Guide (WA)	VT-3	NS	641-123
F2.10	1E12-C002B-SP4	Rigid, Pump Guide (WA)	VT-3	NS	641-123
F2.10	1E12-C002C-SP1	Anchor, Pump Support	VT-3	NS	643-122
F2.10	1E12-C002C-SP2	Anchor, Pump Guide (WA)	VT-3	NS	643-122
F2.10	1E12-C002C-SP3	Anchor, Pump Guide (WA)	VT-3	NS	643-122
F2.10	1E12-C002C-SP4	Anchor, Pump Guide (WA)	VT-3	NS	643-122
F1.10	1E12-H0001	Rigid Strut	VT-3	1	642-139
F1.10	1E12-H0003	Variable Spring	VT-3	1	642-141
F1.10	1E12-H0004	Mechanical Snub.	VT-3	2	642-141
F1.10	1E12-H0005	Mechanical Snub.	VT-3	2	642-140
F1.10	1E12-H0006	Mechanical Snub.	VT-3	3	642-140
F1.10	1E12-H0007	Mechanical Snub.	VT-3	1	642-145
F1.10	1E12-H0009	Variable Spring	VT-3	3	642-145
F1.10	1E12-H0010	Mechanical Snub.	VT-3	1	642-145
F1.10	1E12-H0011	Mechanical Snub.	VT-3	1	642-144

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: F-A					
F1.10	1E12-H0012	Mechanical Snub.	VT-3	2	642-144
F1.10	1E12-H0015	Mechanical Snub.	VT-3	2	642-143
F1.10	1E12-H0016	Mechanical Snub.	VT-3	3	642-125
F1.10	1E12-H0017	Mechanical Snub.	VT-3	3	642-125
F1.10	1E12-H0018	Mechanical Snub.	VT-3	3	642-143
F1.10	1E12-H0019	Rigid Guide	VT-3	1	642-143
F1.10	1E12-H0020	Variable Spring	VT-3	1	642-125
F1.10	1E12-H0021	Rigid Guide	VT-3	2	642-143
F1.10	1E12-H0022	Rigid Guide	VT-3	2	642-143
F1.10	1E12-H0023	Rigid Guide	VT-3	2	642-143
F2.10	1E12-H0024	Variable Spring	VT-3	1	642-126
F1.10	1E12-H0025	Rigid Guide	VT-3	3	642-142
F1.10	1E12-H0026	Mechanical Snub.	VT-3	3	642-142
F1.10	1E12-H0027	Rigid Guide	VT-3	3	642-142
F1.10	1E12-H0028	Rigid Guide	VT-3	1	642-142
F1.10	1E12-H0029	Rigid Guide	VT-3	1	642-142
F1.10	1E12-H0030	Mechanical Snub.	VT-3	2	642-142
F1.10	1E12-H0032	Rigid Strut	VT-3	2	642-142
F1.10	1E12-H0035	Mechanical Snub.	VT-3	3	642-135
F1.10	1E12-H0036	Mechanical Snub.	VT-3	3	642-135
F2.10	1E12-H0039	Mechanical Snub.	VT-3	1	642-126
F1.10	1E12-H0040	Rigid Guide	VT-3	3	642-139
F2.10	1E12-H0041	Rigid Guide	VT-3	2	642-127
F2.10	1E12-H0042	Variable Spring (Tandem)	VT-3	1	642-127
F2.10	1E12-H0043	Rigid Guide	VT-3	3	642-126
F2.10	1E12-H0044	Rigid Guide (VA)	VT-3	2	642-137
F2.10	1E12-H0045	Mechanical Snub. (Tandem)	VT-3	3	642-138
F1.10	1E12-H0046	Mechanical Snub.	VT-3	1	642-139
F1.10	1E12-H0047	Mechanical Snub.	VT-3	1	642-139
F1.10	1E12-H0048	Rigid Rod	VT-3	1	642-139
F1.10	1E12-H0049	Mechanical Snub.	VT-3	1	642-139
F1.10	1E12-H0050	Rigid Rod	VT-3	2	642-139
F1.10	1E12-H0051	Mechanical Snub.	VT-3	3	642-137
F1.10	1E12-H0052	Variable Spring	VT-3	3	642-139
F1.10	1E12-H0053	Rigid Guide	VT-3	3	642-142

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E12-H0054	Rigid Guide	VT-3	1	642-142
F1.10	1E12-H0055	Rigid Strut	VT-3	1	642-142
F1.10	1E12-H0056	Rigid Guide	VT-3	2	642-142
F1.10	1E12-H0057	Rigid Guide	VT-3	2	642-142
F1.10	1E12-H0058	Rigid Guide	VT-3	3	642-142
F1.10	1E12-H0059	Rigid Guide	VT-3	3	642-143
F3.10	1E12-H0060	Mechanical Snub. (WA) (Tandem)	VT-3	2	642-149
F3.10	1E12-H0061	Variable Spring (WA)	VT-3	2	642-149
F3.10	1E12-H0062	Rigid Guide (WA)	VT-3	3	642-149
F3.10	1E12-H0063	Rigid Strut	VT-3	2	642-149
F1.10	1E12-H0074	Mechanical Snub.	VT-3	3	642-14
F1.10	1E12-H0075	Variable Spring	VT-3	1	642-141
F1.10	1E12-H0076	Variable Spring	VT-3	1	642-145
F2.10	1E12-H0077	Rigid Strut	VT-3	2	642-133
F2.10	1E12-H0084	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0085	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0086	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0093	Rigid Strut (WA < .75" Thickness)	VT-3	2	642-121
F2.10	1E12-H0095	Rigid Strut	VT-3	NS*	642-121
F2.10	1E12-H0097	Rigid Strut	VT-3	NS*	642-121
F2.10	1E12-H0099	Rigid Strut	VT-3	NS*	642-121
F1.10	1E12-H0100	Variable Spring (WA)	VT-3	1	642-117
F2.10	1E12-H0102	Anchor (WA < .75" Thickness)	VT-3	NS*	641-117
F2.10	1E12-H0104	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0105	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0106	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0107	Variable Spring	VT-3	NS*	642-119
F2.10	1E12-H0108	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0109	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0110	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0111	Rigid Strut	VT-3	NS*	642-119
F2.10	1E12-H0114	Rigid Strut	VT-3	2	642-119
F2.10	1E12-H0115	Mechanical Snub.	VT-3	3	642-119
F2.10	1E12-H0116	Mechanical Snub. (Tandem)	VT-3	3	642-119
F2.10	1E12-H0117	Rigid Guide	VT-3	3	642-119

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0118	Anchor (WA)	VT-3	1	642-119
F2.10	1E12-H0119	Rigid Strut	VT-3	NS*	642-132
F2.10	1E12-H0120	Anchor (WA)	VT-3	2	643-110
F2.10	1E12-H0121	Rigid Strut	VT-3	2	642-132
F2.10	1E12-H0122	Mechanical Snub. (WA < .75") (Tandem)	VT-3	2	642-132
F2.10	1E12-H0123	Rigid Strut	VT-3	3	642-132
F2.10	1E12-H0124	Mechanical Snub.	VT-3	3	642-132
F2.10	1E12-H0128	Anchor (WA)	VT-3	NS*	641-116
F2.10	1E12-H0136	Rigid Strut (WA)	VT-3	NS*	643-116
F2.10	1E12-H0138	Variable Spring	VT-3	2	643-115
F2.10	1E12-H0140	Rigid Strut	VT-3	3	643-115
F2.10	1E12-H0141	Variable Spring	VT-3	3	643-117
F2.10	1E12-H0142	Variable Spring	VT-3	NS*	643-116
F2.10	1E12-H0143	Rigid Strut (WA)	VT-3	NS*	643-116
F2.10	1E12-H0147	Rigid Guide	VT-3	3	643-117
F2.10	1E12-H0148	Rigid Strut	VT-3	NS*	643-116
F2.10	1E12-H0149	Rigid Strut	VT-3	NS*	643-116
F2.10	1E12-H0150	Rigid Strut	VT-3	NS*	643-116
F2.10	1E12-H0152	Rigid Guide	VT-3	NS*	641-116
F2.10	1E12-H0153	Rigid Guide	VT-3	NS*	641-116
F2.10	1E12-H0154	Rigid Guide	VT-3	NS*	641-116
F2.10	1E12-H0157	Rigid Strut	VT-3	NS*	641-117
F2.10	1E12-H0158	Rigid Strut	VT-3	NS*	641-117
F2.10	1E12-H0159	Rigid Strut	VT-3	NS*	641-117
F2.10	1E12-H0160	Rigid Guide	VT-3	NS*	641-117
F2.10	1E12-H0161	Anchor	VT-3	NS*	641-117
F2.10	1E12-H0162	Mechanical Snub.	VT-3	NS*	643-116
F2.10	1E12-H0163	Rigid Guide	VT-3	NS*	643-116
F2.10	1E12-H0164	Mechanical Snub.	VT-3	3	643-117
F2.10	1E12-H0165	Mechanical Snub.	VT-3	1	643-117
F2.10	1E12-H0166	Variable Spring	VT-3	1	642-112
F2.10	1E12-H0167	Variable Spring	VT-3	1	642-111
F2.10	1E12-H0169	Mechanical Snub. (WA) (Tandem)	VT-3	2	642-111
F2.10	1E12-H0170	Mechanical Snub.	VT-3	2	642-111
F2.10	1E12-H0171	Mechanical Snub.	VT-3	3	642-111

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ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI SS-305-ISO
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0172	Mechanical Snub.	VT-3	1	642-110
F2.10	1E12-H0173	Variable Spring (WA)	VT-3	3	642-110
F2.10	1E12-H0175	Variable Spring	VT-3	NS*	642-132
F2.10	1E12-H0176	Rigid Strut	VT-3	NS*	642-108
F2.10	1E12-H0177	Variable Spring	VT-3	NS*	642-108
F2.10	1E12-H0178	Rigid Strut	VT-3	NS*	642-108
F2.10	1E12-H0180	Mechanical Snub.	VT-3	NS*	642-132
F2.10	1E12-H0182	Rigid Strut	VT-3	NS*	642-103
F2.10	1E12-H0183	Rigid Strut	VT-3	NS*	642-108
F2.10	1E12-H0184	Variable Spring	VT-3	2	641-118
F2.10	1E12-H0185	Rigid Strut	VT-3	NS*	643-101
F2.10	1E12-H0186	Variable Spring	VT-3	3	643-101
F2.10	1E12-H0187	Rigid Guide (WA)	VT-3	2	643-101
F2.10	1E12-H0188	Rigid Guide	VT-3	NS*	643-111
F2.10	1E12-H0189	Variable Spring	VT-3	NS*	643-111
F2.10	1E12-H0190	Mechanical Snub.	VT-3	NS*	643-111
F2.10	1E12-H0192	Mechanical Snub.	VT-3	NS*	643-111
F2.10	1E12-H0193	Variable Spring	VT-3	NS*	643-107
F2.10	1E12-H0194	Variable Spring	VT-3	NS*	642-108
F2.10	1E12-H0195	Mechanical Snub.	VT-3	NS*	641-114
F2.10	1E12-H0197	Rigid Strut	VT-3	NS*	641-114
F2.10	1E12-H0198	Rigid Strut	VT-3	NS*	641-114
F2.10	1E12-H0199	Rigid Strut	VT-3	NS*	641-114
F2.10	1E12-H0200	Rigid Guide	VT-3	NS*	641-114
F2.10	1E12-H0201	Rigid Guide	VT-3	3	643-104
F2.10	1E12-H0202	Rigid Strut	VT-3	NS*	641-114
F2.10	1E12-H0210	Variable Spring	VT-3	1	641-118
F2.10	1E12-H0211	Mechanical Snub.	VT-3	1	641-118
F2.10	1E12-H0212	Mechanical Snub.	VT-3	2	641-118
F2.10	1E12-H0213	Mechanical Snub.	VT-3	2	641-118
F2.10	1E12-H0214	Rigid Strut	VT-3	NS*	641-113
F2.10	1E12-H0215	Variable Spring	VT-3	NS*	641-113
F2.10	1E12-H0216	Rigid Strut	VT-3	NS*	641-113
F2.10	1E12-H0219	Rigid Strut	VT-3	NS*	641-119
F2.10	1E12-H0220	Rigid Strut	VT-3	NS*	641-119

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0233	Rigid Strut	VT-3	NS*	641-119
F2.10	1E12-H0234	Mechanical Snub.	VT-3	NS*	641-119
F2.10	1E12-H0236	Variable Spring	VT-3	3	642-103
F2.10	1E12-H0237	Variable Spring	VT-3	3	643-113
F2.10	1E12-H0238	Rigid Strut	VT-3	NS*	643-106
F2.10	1E12-H0239	Variable Spring	VT-3	NS*	643-106
F2.10	1E12-H0240	Rigid Strut	VT-3	NS*	643-106
F2.10	1E12-H0254	Variable Spring	VT-3	3	643-113
F2.10	1E12-H0255	Mechanical Snub.	VT-3	1	643-113
F2.10	1E12-H0256	Mechanical Snub.	VT-3	1	643-113
F2.10	1E12-H0257	Mechanical Snub.	VT-3	2	643-113
F2.10	1E12-H0258	Rigid Strut	VT-3	NS*	643-114
F2.10	1E12-H0259	Rigid Strut	VT-3	NS*	643-114
F2.10	1E12-H0260	Rigid Strut	VT-3	NS*	643-114
F2.10	1E12-H0261	Rigid Strut	VT-3	N.	643-114
F2.10	1E12-H0263	Mechanical Snub. (WA) (Tandem)	VT-3	1	642-127
F2.10	1E12-H0264	Mechanical Snub.	VT-3	1	642-125
F1.10	1E12-H0267	Hydraulic Snub.	VT-3	1	642-117
F1.10	1E12-H0268	Hydraulic Snub.	VT-3	2	642-117
F1.10	1E12-H0269	Hydraulic Snub.	VT-3	1	642-117
F1.10	1E12-H0270	Hydraulic Snub.	VT-3	3	642-117
F1.10	1E12-H0271	Hydraulic Snub.	VT-3	3	642-117
F1.10	1E12-H0272	Hydraulic Snub.	VT-3	3	642-117
F2.10	1E12-H0277	Rigid Strut	VT-3	1	641-112
F2.10	1E12-H0278	Rigid Strut	VT-3	1	641-112
F2.10	1E12-H0279	Rigid Strut	VT-3	2	641-112
F2.10	1E12-H0280	Mechanical Snub.	VT-3	2	641-112
F2.10	1E12-H0281	Anchor (WA)	VT-3	3	643-102
F2.10	1E12-H0282	Rigid Strut	VT-3	3	641-112
F2.10	1E12-H0283	Rigid Strut	VT-3	3	641-112
F2.10	1E12-H0284	Mechanical Snub.	VT-3	1	641-112
F2.10	1E12-H0286	Variable Spring	VT-3	3	641-101
F2.10	1E12-H0287	Rigid Guide	VT-3	3	641-101
F2.10	1E12-H0288	Mechanical Snub.	VT-3	1	641-101
F2.10	1E12-H0289	Mechanical Snub. (WA)	VT-3	2	641-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-365-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0290	Mechanical Snub. (VA)	VT-3	1	641-101
F2.10	1E12-H0291	Variable Spring	VT-3	2	641-101
F2.10	1E12-H0292	Mechanical Snub.	VT-3	3	641-101
F2.10	1E12-H0293	Mechanical Snub. (Tandem)	VT-3	3	641-101
F2.10	1F12-H0294	Variable Spring	VT-3	3	641-101
F2.10	1E12-H0295	Mechanical Snub.	VT-3	2	642-105
F2.10	1E12-H0299	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0300	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0301	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0302	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0303	Mechanical Snub.	VT-3	NS*	641-115
F2.10	1E12-H0304	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0305	Mechanical Snub. (VA)	VT-3	NS*	641-115
F2.10	1E12-H0306	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0308	Variable Spring (VA)	VT-3	3	642-105
F2.10	1E12-H0309	Mechanical Snub.	VT-3	3	642-105
F2.10	1E12-H0310	Mechanical Snub.	VT-3	3	642-105
F2.10	1E12-H0311	Variable Spring	VT-3	1	642-107
F2.10	1E12-H0312	Variable Spring (VA <.75" thickness)	VT-3	1	642-107
F2.10	1E12-H0313	Mechanical Snub.	VT-3	2	642-107
F2.10	1E12-H0314	Mechanical Snub.	VT-3	2	642-107
F2.10	1E12-H0315	Hydraulic Snub.	VT-3	3	642-107
F2.10	1E12-H0316	Hydraulic Snub.	VT-3	3	642-107
F2.10	1E12-H0317	Mechanical Snub.	VT-3	NS*	641-101
F2.10	1E12-H0318	Mechanical Snub.	VT-3	NS*	641-101
F2.10	1E12-H0319	Variable Spring	VT-3	NS*	641-101
F2.10	1E12-H0320	Anchor (VA)	VT-3	3	641-101
F2.10	1E12-H0322	Mechanical Snub. (VA)	VT-3	1	642-103
F2.10	1E12-H0323	Mechanical Snub. (VA) (Tandem)	VT-3	2	642-103
F2.10	1E12-H0324	Mechanical Snub.	VT-3	2	642-105
F2.10	1E12-H0325	Mechanical Snub.	VT-3	2	642-105
F2.10	1E12-H0328	Rigid Guide (VA <.75" Thickness)	VT-3	3	641-102
F2.10	1E12-H0331	Variable Spring	VT-3	NS*	641-102
F2.10	1E12-H0333	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0334	Variable Spring	VT-3	NS*	641-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0335	Rigid Guide	VT-3	.IS*	641-103
F2.10	1E12-H0338	Variable Spring	VT-3	3	641-102
F2.10	1E12-H0339	Mechanical Snub.	VT-3	NS*	641-104
F2.10	1E12-H0340	Mechanical Snub.	VT-3	NS*	641-106
F2.10	1E12-H0341	Variable Spring	VT-3	NS*	641-108
F2.10	1E12-H0344	Mechanical Snub.	VT-3	NS*	641-108
F2.10	1E12-H0345	Mechanical Snub.	VT-3	NS*	641-108
F2.10	1E12-H0346	Variable Spring	VT-3	NS*	641-108
F2.10	1E12-H0347	Mechanical Snub.	VT-3	NS*	641-108
F2.10	1E12-H0348	Rigid Strut	VT-3	NS*	641-102
F2.10	1E12-H0349	Mechanical Snub.	VT-3	3	641-112
F2.10	1E12-H0352	Rigid Strut	VT-3	NS*	642-122
F2.10	1E12-H0353	Rigid Strut	VT-3	NS*	642-122
F2.10	1E12-H0354	Anchor (WA)	VT-3	NS*	642-122
F2.10	1E12-H0355	Rigid Strut	VT-3	1	642-122
F2.10	1E12-H0356	Rigid Guide	VT-3	NS*	642-122
F2.10	1E12-H0357	Variable Spring	VT-3	3	642-116
F2.10	1E12-H0358	Variable Spring	VT-3	1	642-116
F2.10	1E12-H0359	Mechanical Snub. (WA)	VT-3	2	642-116
F2.10	1E12-H0360	Mechanical Snub. (WA)	VT-3	1	642-116
F2.10	1E12-H0361	Hydraulic Snub.	VT-3	1	642-116
F2.10	1E12-H0362	Mechanical Snub.	VT-3	2	642-116
F2.10	1E12-H0363	Variable Spring	VT-3	2	642-114
F2.10	1E12-H0364	Rigid Strut	VT-3	1	642-114
F2.10	1E12-H0365	Mechanical Snub.	VT-3	3	642-114
F2.10	1E12-H0366	Variable Spring	VT-3	3	642-114
F2.10	1E12-H0367	Mechanical Snub. (WA < .75" Thickness)	VT-3	1	642-114
F2.10	1E12-H0368	Mechanical Snub. (WA)	VT-3	2	642-114
F2.10	1E12-H0369	Rigid Strut (WA)	VT-3	3	642-114
F2.10	1E12-H0370	Mechanical Snub.	VT-3	2	642-114
F2.10	1E12-H0371	Variable Spring	VT-3	2	642-114
F2.10	1E12-H0372	Variable Spring (WA)	VT-3	2	642-113
F2.10	1E12-H0373	Mechanical Snub.	VT-3	3	642-113
F2.10	1E12-H0374	Mechanical Snub.	VT-3	1	642-113
F2.10	1E12-H0375	Mechanical Snub.	VT-3	1	642-113

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0376	Mechanical Snub.	VT-3	2	642-113
F2.10	1E12-H0377	Mechanical Snub.	VT-3	2	642-102
F2.10	1E12-H0378	Mechanical Snub.	VT-3	3	642-102
F2.10	1E12-H0379	Mechanical Snub.	VT-3	3	642-102
F2.10	1E12-H0380	Rigid Strut	VT-3	3	642-109
F2.10	1E12-H0381	Rigid Strut	VT-3	1	642-109
F2.10	1E12-H0382	Mechanical Snub.	VT-3	NS*	642-114
F2.10	1E12-H0383	Mechanical Snub.	VT-3	NS*	642-114
F2.10	1E12-H0384	Variable Spring	VT-3	NS*	642-114
F2.10	1E12-H0385	Mechanical Snub.	VT-3	1	642-101
F2.10	1E12-H0386	Mechanical Snub.	VT-3	1	642-102
F2.10	1E12-H0388	Mechanical Snub.	VT-3	2	642-102
F2.10	1E12-H0389	Mechanical Snub.	VT-3	3	642-101
F2.10	1E12-H0390	Variable Spring	VT-3	3	642-101
F2.10	1E12-H0391	Mechanical Snub.	VT-3	2	642-102
F2.10	1E12-H0392	Mechanical Snub.	VT-3	2	642-102
F2.10	1E12-H0393	Mechanical Snub.	VT-3	NS*	642-101
F2.10	1E12-H0394	Mechanical Snub.	VT-3	NS*	642-101
F2.10	1E12-H0395	Variable Spring	VT-3	NS*	642-101
F2.10	1E12-H0396	Variable Spring	VT-3	3	642-101
F2.10	1E12-H0397	Anchor (WA)	VT-3	NS*	643-101
F2.10	1E12-H0400	Anchor (WA)	VT-3	NS*	642-104
F2.10	1E12-H0401	Anchor (WA)	VT-3	3	642-109
F1.10	1E12-H0403	Anchor (WA)	VT-3	NS*	642-114
F2.10	1E12-H0406	Variable Spring	VT-3	NS*	642-134
F2.10	1E12-H0407	Mechanical Snub.	VT-3	NS*	642-134
F2.10	1E12-H0408	Mechanical Snub.	VT-3	NS*	642-134
F2.10	1E12-H0409	Variable Spring	VT-3	2	642-134
F2.10	1E12-H0410	Mechanical Snub.	VT-3	3	642-134
F2.10	1E12-H0412	Anchor (WA)	VT-3	1	643-117
F2.10	1E12-H0414	Mechanical Snub.	VT-3	NS*	642-134
F2.10	1E12-H0415	Rigid Strut	VT-3	NS*	642-134
F1.10	1E12-H0416	Mechanical Snub.	VT-3	2	642-134
F2.10	1E12-H0417	Variable Spring	VT-3	2	642-134
F1.10	1E12-H0418	Mechanical Snub.	VT-3	3	642-134

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E12-H0419	Mechanical Snub.	VT-3	3	642-134
F2.10	1E12-H0420	Variable Spring	VT-3	2	643-120
F2.10	1E12-H0421	Mechanical Snub.	VT-3	2	643-120
F2.10	1E12-H0422	Mechanical Snub.	VT-3	NS*	643-119
F2.10	1E12-H0423	Mechanical Snub. (WA)	VT-3	NS*	643-119
F2.10	1E12-H0424	Mechanical Snub.	VT-3	1	643-120
F2.10	1E12-H0425	Mechanical Snub.	VT-3	2	643-120
F2.10	1E12-H0426	Variable Spring	VT-3	2	643-120
F2.10	1E12-H0427	Mechanical Snub.	VT-3	3	643-120
F2.10	1E12-H0428	Mechanical Snub.	VT-3	3	643-120
F2.10	1E12-H0430	Mechanical Snub.	VT-3	2	642-134
F2.10	1E12-H0432	Rigid Strut	VT-3	3	642-112
F2.10	1E12-H0433	Variable Spring	VT-3	3	642-111
F2.10	1E12-H0435	Mechanical Snub.	VT-3	2	643-102
F2.10	1E12-H0436	variable Spring	VT-3	2	643-102
F2.10	1E12-H0437	Mechanical Snub.	VT-3	3	643-102
F2.10	1E12-H0438	Variable Spring	VT-3	3	643-102
F2.10	1E12-H0439	Mechanical Snub.	VT-3	3	643-102
F2.10	1E12-H0440	Mechanical Snub.	VT-3	NS*	643-102
F2.10	1E12-H0441	Mechanical Snub.	VT-3	NS*	643-102
F2.10	1E12-H0443	Rigid Strut	VT-3	1	643-102
F2.10	1E12-H0444	Variable Spring	VT-3	2	643-102
F2.10	1E12-H0445	Rigid Strut	VT-3	2	643-102
F2.10	1E12-H0446	Rigid Guide	VT-3	3	643-102
F2.10	1E12-H0447	Mechanical Snub. (Tandem)	VT-3	3	643-102
F2.10	1E12-H0448	Variable Spring	VT-3	3	643-102
F2.10	1E12-H0449	Mechanical Snub.	VT-3	1	643-104
F2.10	1E12-H0450	Rigid Guide	VT-3	1	643-104
F2.10	1E12-H0451	Variable Spring (JA)	VT-3	2	641-104
F2.10	1E12-H0454	Rigid Guide	VT-3	2	641-109
F2.10	1E12-H0455	Mechanical Snub.	VT-3	3	641-109
F2.10	1E12-H0456	Rigid Strut	VT-3	3	641-110
F2.10	1E12-H0457	Mechanical Snub.	VT-3	NS*	641-110
F2.10	1E12-H0458	Variable Spring	VT-3	1	641-110
F2.10	1E12-H0459	Mechanical Snub.	VT-3	2	641-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0460	Mechanical Snub. (Tandem)	VT-3	2	641-110
F2.10	1E12-H0461	Variable Spring	VT-3	3	641-110
F2.10	1E12-H0462	Mechanical Snub.	VT-3	3	641-110
F2.10	1E12-H0463	Anchor (WA)	VT-3	1	641-110
F2.10	1E12-H0464	Variable Spring (WA)	VT-3	3	641-109
F2.10	1E12-H0465	Rigid Guide	VT-3	1	641-110
F2.10	1E12-H0466	Mechanical Snub. (Tandem)	VT-3	1	641-110
F2.10	1E12-H0467	Mechanical Snub. (Tandem)	VT-3	NS*	641-110
F2.10	1E12-H0468	Variable Spring	VT-3	NS*	641-110
F2.10	1E12-H0469	Variable Spring	VT-3	2	641-110
F2.10	1E12-H0470	Rigid Strut	VT-3	2	641-110
F2.10	1E12-H0471	Variable Spring	VT-3	3	641-110
F2.10	1E12-H0472	Rigid Strut	VT-3	3	643-102
F2.10	1E12-H0473	Rigid Strut	VT-3	3	641-110
F2.10	1E12-H0474	Rigid Guide	VT-3	3	642-144
F2.10	1E12-H0475	Rigid Strut (WA)	VT-3	1	642-121
F1.10	1E12-H0476	Rigid Guide	VT-3	1	642-140
F1.10	1E12-H0478	Variable Spring	VT-3	1	642-145
F2.10	1E12-H0482	Rigid Strut	VT-3	NS*	643-112
F2.10	1E12-H0483	Rigid Strut	VT-3	NS*	641-107
F2.10	1E12-H0484	Mechanical Snub. (WA)	VT-3	2	642-129
F2.10	1E12-H0485	Mechanical Snub.	VT-3	3	642-129
F2.10	1E12-H0486	Mechanical Snub.	VT-3	3	642-129
F2.10	1E12-H0487	Variable Spring	VT-3	1	642-129
F2.10	1E12-H0488	Mechanical Snub. (WA)	VT-3	1	642-129
F2.10	1E12-H0489	Rigid Guide (WA)	VT-3	3	642-130
F2.10	1E12-H0490	Hydraulic Snub.	VT-3	2	642-130
F2.10	1E12-H0491	Hydraulic Snub.	VT-3	2	642-130
F2.10	1E12-H0492	Mechanical Snub.	VT-3	NS*	642-123
F2.10	1E12-H0493	Rigid Strut	VT-3	NS*	642-123
F2.10	1E12-H0496	Mechanical Snub.	VT-3	2	641-106
F2.10	1E12-H0497	Mechanical Snub.	VT-3	3	641-106
F2.10	1E12-H0498	Mechanical Snub. (Tandem)	VT-3	3	641-106
F2.10	1E12-H0499	Variable Spring	VT-3	3	641-106
F2.10	1E12-H0500	Mechanical Snub.	VT-3	1	641-106

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0501	Mechanical Snub.	VT 3	1	641-106
F2.10	1E12-H0502	Mechanical Snub.	VT-3	2	641-106
F2.10	1E12-H0503	Mechanical Snub.	VT-3	2	641-119
F2.10	1E12-H0504	Rigid Strut	VT-3	3	641-119
F2.10	1E12-H0505	Variable Spring	VT-3	3	641-119
F2.10	1E12-H0506	Mechanical Snub. (Tandem)	VT-3	3	641-109
F2.10	1E12-H0510	Mechanical Snub.	VT-3	NS*	641-105
F2.10	1E12-H0511	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0512	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0513	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0514	Variable Spring	VT-3	NS*	641-105
F2.10	1E12-H0526	Mechanical Snub.	VT-3	1	641-105
F2.10	1E12-H0527	Variable Spring	VT-3	2	641-105
F2.10	1E12-H0528	Mechanical Snub.	VT-3	1	641-105
F2.10	1E12-H0529	Variable Spring (WA)	VT-3	2	641-106
F2.10	1E12-H0533	Mechanical Snub. (WA <.75" Thickness)	VT-3	NS*	641-105
F2.10	1E12-H0534	Variable Spring	VT-3	2	643-114
F2.10	1E12-H0535	Mechanical Snub.	VT-3	3	643-114
F2.10	1E12-H0536	Variable Spring	VT-3	3	643-105
F2.10	1E12-H0545	Mechanical Snub.	VT-3	NS*	643-111
F2.10	1E12-H0546	Mechanical Snub.	VT-3	NS*	643-111
F2.10	1E12-H0547	Variable Spring	VT-3	NS*	643-111
F2.10	1E12-H0548	Variable Spring	VT-3	3	643-110
F2.10	1E12-H0549	Rigid Strut	VT-3	3	643-110
F2.10	1E12-H0550	Variable Spring	VT-3	1	643-110
F2.10	1E12-H0551	Mechanical Snub.	VT-3	1	643-109
F2.10	1E12-H0552	Variable Spring	VT-3	2	643-109
F2.10	1E12-H0553	Variable Spring	VT-3	2	643-109
F2.10	1E12-H0554	Mechanical Snub.	VT-3	3	643-109
F2.10	1E12-H0555	Mechanical Snub.	VT-3	3	643-109
F2.10	1E12-H0556	Mechanical Snub. (Tandem)	VT-3	3	643-109
F2.10	1E12-H0557	Mechanical Snub.	VT-3	1	643-109
F2.10	1E12-H0558	Mechanical Snub.	VT-3	1	643-109
F2.10	1E12-H0559	Variable Spring	VT-3	1	642-136
F2.10	1E12-H0560	Mechanical Snub. (Tandem)	VT-3	1	642-136

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E12-H0561	Mechanical Snub.	VT-3	2	642-136
F2.10	1E12-H0562	Rigid Strut	VT-3	2	643-110
F2.10	1E12-H0563	Rigid Strut	VT-3	2	643-110
F2.10	1E12-H0564	Rigid Strut	VT-3	NS*	643-111
F2.10	1E12-H0565	Mechanical Snub. (Tandem)	VT-3	NS*	643-109
F2.10	1E12-H0566	Variable Spring	VT-3	NS*	643-109
F2.10	1E12-H0567	Mechanical Snub.	VT-3	NS*	643-109
F2.10	1E12-H0569	Mechanical Snub.	VT-3	3	643-105
F2.10	1E12-H0570	Mechanical Snub.	VT-3	3	643-114
F2.10	1E12-H0571	Mechanical Snub.	VT-3	3	643-165
F2.10	1E12-H0572	Rigid Strut	VT-3	1	643-105
F3.10	1E12-H0573	Rigid Strut (WA)	VT-3	2	642-149
F2.10	1E12-H0611	Anchor (WA)	VT-3	NS*	641-114
F2.10	1E12-H0614	Rigid Strut See NOTE 1	VT-3	NS*	643-110
F2.10	1E12-H0615	Variable Spring	VT-3	1	643-109
F2.10	1E12-H0616	Mechanical Snub.	VT-3	1	643-109
F2.10	1E12-H0617	Mechanical Snub. (WA)	VT-3	NS*	643-110
F2.10	1E12-H0618	Rigid Strut	VT-3	2	643-114
F2.10	1E12-H0620	Anchor	VT-3	NS*	643-111
F3.10	1E12-H0624	Rigid Strut	VT-3	1	642-149
F3.10	1E12-H0626	Rigid Strut	VT-3	2	642-149
F1.10	1E12-H0633	Rigid Strut	VT-3	2	642-122
F2.10	1E12-H0635	Rigid Strut	VT-3	NS*	642-132
F1.10	1E12-H0639	Rigid Rod	VT-3	2	642-143
F1.10	1E12-H0641	Rigid Strut	VT-3	2	642-142
F1.10	1E12-H0642	Rigid Strut	VT-3	3	642-142
F1.10	1E12-H0643	Rigid Strut	VT-3	3	642-143
F1.10	1E12-H0644	Rigid Strut	VT-3	3	642-143
F2.10	1E12-H0646	Rigid Strut	VT-3	NS*	642-108
F1.10	1E12-H0648	Rigid Guide	VT-3	2	642-122
F2.10	1E12-H0649	Rigid Strut	VT-3	NS*	642-122
F2.10	1E12-H0650	Rigid Strut	VT-3	NS*	642-122
F2.10	1E12-H0651	Rigid Strut	VT-3	NS*	642-122
F1.10	1E12-H0652	Mechanical Snub.	VT-3	2	642-137
F1.10	1E12-H0653	Mechanical Snub.	VT-3	3	642-137

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E12-H0654	Rigid Strut	VT-3	1	642-139
F2.10	1E12-H0657	Rigid Strut	VT-3	3	642-138
F2.10	1E12-H0658	Rigid Strut	VT-3	3	642-138
F1.10	1E12-H0660	Mechanical Snub. (Tandem)	VT-3	1	642-137
F2.10	1E12-H0661	Variable Spring	VT-3	3	642-137
F2.10	1E12-H0662	Rigid Strut	VT-3	NS*	641-108
F2.10	1E12-H0663	Rigid Strut	VT-3	NS*	641-108
F2.10	1E12-H0665	Rigid Strut	VT-3	2	641-104
F2.10	1E12-H0666	Mechanical Snub.	VT-3	3	641-104
F2.10	1E12-H0667	Variable Spring	VT-3	3	641-106
F2.10	1E12-H0670	Variable Spring (WA)	VT-3	1	642-137
F1.10	1E12-H0671	Mechanical Snub. (Tandem)	VT-3	3	642-141
F2.10	1E12-H0673	Rigid Strut	VT-3	2	642-127
F1.10	1E12-H0675	Variable Spring	VT-3	3	642-141
F2.10	1E12-H0676	Rigid Guide	VT-3	NS*	641-103
F2.10	1E12-H0677	Rigid Guide	VT-3	NS*	641-103
F2.10	1E12-H0678	Rigid Strut	VT-3	NS*	641-103
F2.10	1E12-H0679	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0680	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0681	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0682	Mechanical Snub.	VT-3	NS*	641-103
F2.10	1E12-H0683	Rigid Strut	VT-3	3	641-102
F2.10	1E12-H0684	Rigid Strut	VT-3	NS*	641-107
F2.10	1E12-H0685	Rigid Guide	VT-3	NS*	641-103
F2.10	1E12-H0687	Rigid Strut	VT-3	NS*	641-115
F2.10	1E12-H0688	Rigid Strut	VT-3	NS*	643-110
F2.10	1E12-H0689	Rigid Strut	VT-3	1	641-104
F2.10	1E12-H0690	Rigid Strut	VT-3	1	641-104
F2.10	1E12-H0691	Variable Spring	VT-3	2	641-110
F1.10	1E12-H0692	Rigid Rod	VT-3	3	642-139
F2.10	1E12-H0693	Rigid Guide	VT-3	3	642-137
F3.10	1E12-H0694	Mechanical Snub.	VT-3	3	642-149
F1.10	1E12-H0695	Rigid Guide	VT-3	3	642-139
F3.10	1E12-H0698	Rigid Strut	VT-3	3	642-149
F3.10	1E12-H0699	Mechanical Snub.	VT-3	2	642-149

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-0					
F2.10	1E12-H0702	Rigid Strut	VT-3	NS*	642-121
F2.10	1E12-H0703	Rigid Strut	VT-3	NS*	642-121
F2.10	1E12-H0707	Rigid Strut	VT-3	2	643-115
F2.10	1E12-H0708	Rigid Strut (WA)	VT-3	3	643-117
F2.10	1E12-H0709	Variable Spring	VT-3	NS*	643-116
F2.10	1E12-H0710	Mechanical Snub.	VT-3	NS*	642-111
F2.10	1E12-H0711	Variable Spring	VT-3	NS*	642-111
F2.10	1E12-H0712	Mechanical Snub.	VT-3	NS*	642-111
F2.10	1E12-H0713	Rigid Strut	VT-3	3	642-111
F2.10	1E12-H0714	Rigid Strut	VT-3	1	642-111
F2.10	1E12-H0717	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0718	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0719	Rigid Strut	VT-3	3	642-133
F2.10	1E12-H0720	Rigid Strut (WA < .75" THK)	VT-3	3	642-133
F2.10	1E12-H0721	Rigid Strut (WA < .75" THK)	VT-3	3	642-121
F2.10	1E12-H0723	Rigid Strut	VT-3	NS*	642-133
F2.10	1E12-H0724	Rigid Strut (WA)	VT-3	NS*	642-121
F1.10	1E12-H0726	Hydraulic Snub.	VT-3	3	642-141
F2.10	1E12-H0727	Rigid Strut	VT-3	NS*	641-119
F2.10	1E12-H0729	Mechanical Snub.	VT-3	1	642-101
F2.10	1E12-H0730	Mechanical Snub. (WA < .75" THK)	VT-3	1	642-103
F2.10	1E12-H0731	Mechanical Snub. (WA)	VT-3	1	642-101
F2.10	1E12-H0732	Variable Spring	VT-3	2	642-101
F2.10	1E12-H0733	Rigid Strut	VT-3	3	642-101
F2.10	1E12-H0734	Mechanical Snub.	VT-3	1	642-134
F1.10	1E12-H0735	Variable Spring	VT-3	1	642-134
F1.10	1E12-H0736	Mechanical Snub.	VT-3	1	642-134
F2.10	1E12-H0737	Mechanical Snub.	VT-3	2	543-120
F2.10	1E12-H0738	Mechanical Snub.	VT-3	2	643-120
F1.10	1E12-H0739	Rigid Strut	VT-3	2	642-125
F1.10	1E12-H0740	Rigid Strut	VT-3	2	642-125
F1.10	1E12-H0741	Mechanical Snub. (Tandem)	VT-3	3	642-125
F1.10	1E12-H0747	Mechanical Snub.	VT-3	2	642-132
F1.10	1E12-H0748	Rigid Guide	VT-3	3	642-141

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E12-H0749	Mechanical Snub.	VT-3	3	642-141
F1.10	1E12-H0750	Mechanical Snub.	VT-3	1	642-141
F2.10	1E12-H0751	Mechanical Snub.	VT-3	NS*	642-132
F2.10	1E12-H0752	Mechanical Snub.	VT-3	NS*	642-132
F2.10	1E12-H0763	Variable Spring	VT-3	NS*	643-102
F1.10	1E12-H0764	Mechanical Snub.	VT-3	1	642-145
F1.10	1E12-H0765	Mechanical Snub.	VT-3	2	642-145
F1.10	1E12-H0766	Mechanical Snub. (Tandem)	VT-3	1	642-145
F1.10	1E12-H0767	Rigid Guide	VT-3	1	642-145
F2.10	1E12-H0769	Mechanical Snub.	VT-3	1	642-102
F2.10	1E12-H0770	Mechanical Snub.	VT-3	3	642-126
F2.10	1E12-H0771	Mechanical Snub.	VT-3	3	642-126
F2.10	1E12-H0772	Mechanical Snub.	VT-3	3	642-126
F2.10	1E12-H0774	Mechanical Snub.	VT-3	3	641-112
F1.10	1E12-H0777	Mechanical Snub.	VT-3	3	642-142
F2.10	1E12-H0779	Mechanical Snub.	VT-3	NS*	643-108
F2.10	1E12-H0780	Mechanical Snub.	VT-3	NS*	641-114
F2.10	1E12-H0781	Mechanical Snub.	VT-3	NS*	643-111
F2.10	1E12-H0782	Mechanical Snub. (Tandem)	VT-3	NS*	643-111
F1.10	1E12-H0786	Rigid Strut	VT-3	3	642-125
F2.10	1E12-H0787	Mechanical Snub.	VT-3	NS*	642-132
F2.10	1E12-H0788	Mechanical Snub.	VT-3	NS*	642-119
F2.10	1E12-H0789	Rigid Guide	VT-3	3	642-101
F2.10	1E12-H1098	Rigid Guide	VT-3	NS*	641-107
F2.10	1E12-H1099	Anchor (WA)	VT-3	NS*	641-107
F2.10	1E12-H1100	Rigid Guide	VT-3	NS*	641-105
F2.10	1E12-H1101	Rigid Guide	VT-3	NS*	641-105
F2.10	1E12-H1102	Variable Spring	VT-3	NS*	641-105
F1.10	1E12-H5000	Mechanical Snub. (Tandem)	VT-3	1	642-143
F1.10	1E12-H5001	Mechanical Snub.	VT-3	3	642-135
F2.10	1E12-H5002	Mechanical Snub.	VT-3	3	642-138
F2.10	1E12-H6000	Rigid Guide	VT-3	NS*	643-116
F2.10	1E12-P102-SP1	Rigid Guide (Support Inside Penetration Guard Pipe)	VT-3	NS	642-107
F2.10	1E12-P402-SP1	Rigid Guide (Support Inside Penetration Guard Pipe)	VT-3	NS	642-116
F2.10	1E12-P403-SP1	Rigid Guide (Support Inside Penetration Guard Pipe)	VT-3	NS	642-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E12-P421-SP1	Rigid Guide (Support Inside Penetration Guard Pipe)	VT-3	NS	642-117
F2.10	1E21-C001-SP1	Pump Support, Anchor	VT-3	2	705-113
F2.10	1E21-C001-SP2	Pump Barrel Support (WA)	VT-3	NS	705-113
F2.10	1E21-C001-SP3	Pump Barrel Support (WA)	VT-3	NS	705-113
F2.10	1E21-C001-SP4	Pump Barrel Guide Pin (WA)	VT-3	NS	705-113
F1.10	1E21-H0001	Hydraulic Snub.	VT-3	1	705-111
F1.10	1E21-H0002	Hydraulic Snub.	VT-3	1	705-111
F1.10	1E21-H0003	Variable Spring	VT-3	1	705-111
F1.10	1E21-H0004	Mechanical Snub.	VT-3	2	705-111
F1.10	1E21-H0005	Rigid Strut	VT-3	3	705-111
F1.10	1E21-H0006	Variable Spring	VT-3	3	705-111
F1.10	1E21-H0007	Mechanical Snub.	VT-3	3	705-109
F1.10	1E21-H0008	Mechanical Snub.	VT-3	1	705-109
F1.10	1E21-H0009	Variable Spring	VT-3	1	705-109
F1.10	1E21-H0010	Variable Spring	VT-3	2	705-109
F1.10	1E21-H0011	Mechanical Snub.	VT-3	2	705-109
F1.10	1E21-H0012	Mechanical Snub.	VT-3	3	705-109
F1.10	1E21-H0013	Variable Spring	VT-3	3	705-109
F1.10	1E21-H0014	Variable Spring	VT-3	3	705-109
F1.10	1E21-H0015	Mechanical Snub.	VT-3	1	705-109
F1.10	1E21-H0016	Mechanical Snub.	VT-3	1	705-109
F2.10	1E21-H0020	Rigid Strut (WA)	VT-3	1	705-102
F2.10	1E21-H0021	Rigid Strut	VT-3	1	705-102
F2.10	1E21-H0022	Rigid Strut	VT-3	3	705-102
F2.10	1E21-H0023	Anchor (WA)	VT-3	3	705-103
F2.10	1E21-H0024	Mechanical Snub. and Rigid Strut	VT-3	2	705-102
F2.10	1E21-H0025	Variable Spring	VT-3	2	705-102
F2.10	1E21-H0026	Mechanical Snub. (WA <.75" Thickness)	VT-3	3	705-101
F2.10	1E21-H0027	Variable Spring	VT-3	3	705-101
F2.10	1E21-H0028	Mechanical Snub.	VT-3	3	705-101
F2.10	1E21-H0029	Variable Spring	VT-3	1	705-101
F2.10	1E21-H0030	Mechanical Snub. (Tandem)	VT-3	1	705-101
F2.10	1E21-H0031	Variable Spring	VT-3	2	705-101
F2.10	1E21-H0032	Rigid Strut	VT-3	2	705-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E21-H0035	Rigid Rod	VT-3	1	705-104
F2.10	1E21-H0035	Variable Spring	VT-3	1	705-104
F2.10	1E21-H0038	Mechanical Snub.	VT-3	2	705-104
F2.10	1E21-H0039	Mechanical Snub.	VT-3	2	705-104
F2.10	1E21-H0040	Mechanical Snub.	VT-3	3	705-105
F2.10	1E21-H0041	Variable Spring	VT-3	3	705-105
F2.10	1E21-H0042	Mechanical Snub.	VT-3	3	705-105
F2.10	1E21-H0043	Anchor (WA)	VT-3	1	705-106
F2.10	1E21-H0050	Mechanical Snub. (Tandem)	VT-3	3	705-101
F2.10	1E21-H0051	Variable Spring	VT-3	3	705-102
F2.10	1E21-H0053	Mechanical Snub.	VT-3	1	705-104
F1.10	1E21-H0058	Variable Spring	VT-3	2	705-108
F1.10	1E21-H0060	Mechanical Snub.	VT-3	2	705-108
F1.10	1E21-H0061	Mechanical Snub.	VT-3	3	705-108
F1.10	1E21-H0062	Mechanical Snub.	VT-3	3	705-108
F1.10	1E21-H0063	Mechanical Snub.	VT-3	3	705-108
F2.10	1E21-H0064	Variable Spring	VT-3	3	705-108
F2.10	1E21-H0065	Variable Spring	VT-3	1	705-108
F2.10	1E21-H0065	Mechanical Snub.	VT-3	2	705-108
F2.10	1E21-H0066	Mechanical Snub.	VT-3	2	705-107
F2.10	1E21-H0067	Mechanical Snub.	VT-3	3	705-107
F2.10	1E21-H0079	Mechanical Snub.	VT-3	NS*	705-101
F2.10	1E21-H0080	Rigid Strut (WA <.75" Thickness)	VT-3	3	705-101
F2.10	1E21-H0084	Mechanical Snub.	VT-3	NS*	705-108
F2.10	1E21-H0085	Variable Spring	VT-3	NS*	705-108
F2.10	1E21-H0087	Rigid Strut	VT-3	2	705-107
F1.10	1E21-H0089	Variable Spring	VT-3	3	705-108
F2.10	1E21-H0096	Mechanical Snub.	VT-3	3	705-108
F2.10	1E21-P103-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	705-101
F2.10	1E22-C001-SP1	Pump Support, Anchor	VT-3	2	701-114
F2.10	1E22-C001-SP2	Pump Barrel Support (WA)	VT-3	NS	701-114
F2.10	1E22-C001-SP3	Pump Barrel Support (WA)	VT-3	NS	701-114
F3.10	1E22-D008-SP	Exhaust Silencer Support	VT-3	2	355-101
F1.10	1E22-H0001	Hydraulic Snub.	VT-3	1	701-111
F1.10	1E22-H0002	Hydraulic Snub.	VT-3	1	701-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E22-H0003	Variable Spring	VT-3	2	701-111
F1.10	1E22-H0004	Rigid Strut	VT-3	2	701-111
F1.10	1E22-H0005	Mechanical Snub.	VT-3	3	701-111
F1.10	1E22-H0006	Variable Spring	VT-3	3	701-111
F1.10	1E22-H0007	Mechanical Snub.	VT-3	3	701-109
F1.10	1E22-H0008	Mechanical Snub.	VT-3	1	701-109
F1.10	1E22-H0009	Variable Spring	VT-3	1	701-109
F1.10	1E22-H0010	Mechanical Snub.	VT-3	2	701-109
F1.10	1E22-H0011	Mechanical Snub.	VT-3	2	701-109
F1.10	1E22-H0015	Mechanical Snub.	VT-3	3	701-109
F1.10	1E22-H0016	Variable Spring	VT-3	3	701-109
F1.10	1E22-H0017	Mechanical Snub.	VT-3	1	701-109
F2.10	1E22-H0025	Variable Spring	VT-3	3	701-103
F2.10	1E22-H0026	Rigid Strut	VT-3	3	701-103
F2.10	1E22-H0027	Rigid Strut (JA)	VT-3	1	701-102
F2.10	1E22-H0028	Variable Spring	VT-3	1	701-102
F2.10	1E22-H0029	Rigid Strut (Tandem)	VT-3	2	701-102
F2.10	1E22-H0030	Rigid Strut	VT-3	2	701-102
F2.10	1E22-H0031	Rigid Guide	VT-3	3	701-102
F2.10	1E22-H0032	Mechanical Snubber	VT-3	3	701-102
F2.10	1E22-H0033	Rigid Guide	VT-3	3	701-102
F2.10	1E22-H0034	Mechanical Snub.	VT-3	1	701-102
F2.10	1E22-H0035	Mechanical Snub.	VT-3	1	701-102
F2.10	1E22-H0036	Rigid Guide	VT-3	2	701-102
F2.10	1E22-H0037	Mechanical Snub.	VT-3	2	701-102
F2.10	1E22-H0038	Mechanical Snub. (WA)	VT-3	3	701-101
F2.10	1E22-H0039	Variable Spring	VT-3	3	701-101
F2.10	1E22-H0041	Rigid Strut	VT-3	3	701-101
F2.10	1E22-H0042	Variable Spring	VT-3	1	701-103
F2.10	1E22-H0043	Rigid Guide	VT-3	1	701-103
F2.10	1E22-H0044	Rigid Strut	VT-3	2	701-104
F2.10	1E22-H0045	Variable Spring	VT-3	2	701-104
F2.10	1E22-H0047	Mechanical Snub.	VT-3	1	701-104
F2.10	1E22-H0048	Rigid Strut	VT-3	3	701-104
F2.10	1E22-H0049	Rigid Guide	VT-3	3	701-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E22-H0050	Rigid Strut	VT-3	3	701-105
F2.10	1E22-H0051	Rigid Strut	VT-3	1	701-105
F2.10	1E22-H0052	Rigid Strut	VT-3	1	701-105
F2.10	1E22-H0053	Mechanical Snub.	VT-3	2	701-105
F2.10	1E22-H0054	Mechanical Snub. (VA)	VT-3	2	701-105
F2.10	1E22-H0055	Rigid Strut	VT-3	3	701-106
F2.10	1E22-H0056	Variable Spring	VT-3	3	701-106
F2.10	1E22-H0057	Mechanical Snub.	VT-3	3	701-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 55-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E22-H0058	Rigid Strut	VT-3	1	701-106
F2.10	1E22-H0059	Variable Spring (Tandem)	VT-3	1	701-106
F2.10	1E22-H0060	Mechanical Snub.	VT-3	2	701-106
F2.10	1E22-H0061	Rigid Guide	VT-3	2	701-106
F2.10	1E22-H0062	Rigid Guide (WA)	VT-3	1	701-107
F2.10	1E22-H0063	Rigid Strut	VT-3	3	701-107
F2.10	1E22-H0064	Mechanical Snub.	VT-3	3	701-108
F2.10	1E22-H0065	Rigid Strut	VT-3	1	701-108
F2.10	1E22-H0066	Mechanical Snub. (Tandem)	VT-3	3	701-108
F2.10	1E22-H0069	Variable Spring	VT-3	1	701-108
F2.10	1E22-H0070	Mechanical Snub.	VT-3	2	701-108
F2.10	1E22-H0071	Variable Spring	VT-3	2	701-105
F2.10	1E22-H0072	Rigid Strut	VT-3	2	701-105
F2.10	1E22-H0073	Rigid Strut	VT-3	2	701-105
F2.10	1E22-H0078	Rigid Strut	VT-3	3	701-105
F2.10	1E22-H0079	Variable Spring	VT-3	3	701-105
F2.10	1E22-H0080	Rigid Guide	VT-3	3	701-105
F2.10	1E22-H0081	Mechanical Snub.	VT-3	1	701-105
F2.10	1E22-H0082	Rigid Guide	VT-3	1	701-112
F2.10	1E22-H0083	Rigid Strut	VT-3	2	701-112
F2.10	1E22-H0084	Rigid Strut	VT-3	2	701-112
F2.10	1E22-H0085	Rigid Guide (WA)	VT-3	3	701-112
F2.10	1E22-H0086	Rigid Strut	VT-3	3	701-113
F2.10	1E22-H0104	Rigid Strut	VT-3	NS*	701-102
F2.10	1E22-H0105	Mechanical Snub.	VT-3	1	701-101
F2.10	1E22-H0107	Mechanical Snub. (WA) (Tandem)	VT-3	2	701-105
F1.10	1E22-H0117	Variable Spring	VT-3	1	701-108
F1.10	1E22-H0118	Mechanical Snub.	VT-3	2	701-108
F1.10	1E22-H0119	Mechanical Snub.	VT-3	2	701-108
F2.10	1E22-H0120	Variable Spring	VT-3	3	701-104
F2.10	1E22-H0122	Mechanical Snub.	VT-3	3	701-113
F3.10	1E22-H0132	Anchor (WA)	VT-3	2	355-101
F3.10	1E22-H0133	Rigid Strut (WA)	VT-3	3	355-101
F3.10	1E22-H0134	Mechanical Snub.	VT-3	2	355-101
F3.10	1E22-H0135	Mechanical Snub.	VT-3	2	355-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1E22-H0136	Variable Spring (WA)	VT-3	2	355-101
F3.10	1E22-H0137	Rigid Guide	VT-3	3	355-101
F3.10	1E22-H0138	Variable Spring (WA)	VT-3	2	355-101
F3.10	1E22-H0139	Variable Spring (WA)	VT-3	2	355-101
F1.10	1E22-H0144	Variable Spring	VT-3	2	701-109
F3.10	1E22-H0146	Rigid Guide	VT-3	3	355-101
F2.10	1E22-H0148	Rigid Strut	VT-3	2	701-108
F3.10	1E22-H5000	Mechanical Snub.	VT-3	2	355-101
F3.10	1E22-S001-SP	D.G. Heat Exchanger Support (WA)	VT-3	2	791-101
F3.10	1E22-S004A-SP	Air Receiver Tank Support (WA)	VT-3	2	351-101
F3.10	1E22-S004B-SP	Air Receiver Tank Support (WA)	VT-3	3	371-101
F2.10	1E22-P401-SPI	Rigid Guide (Inside Penetration Guide Pipe)	VT-3	NS	7 1-101
F1.10	1E32-H0093	Rigid Strut	VT-3	1	341-103
F1.10	1E32-H0094	Mechanical Snub.	VT-3	1	341-103
F1.10	1E32-H0100	Rigid Strut	VT-3	2	341-102
F1.10	1E32-H0101	Mechanical Snub.	VT-3	2	341-102
F1.10	1E32-H0102	Mechanical Snub.	VT-3	3	341-104
F1.10	1E32-H0104	Rigid Strut	VT-3	3	341-104
F1.10	1E32-H0105	Mechanical Snub.	VT-3	3	341-104
F1.10	1E32-H0123	Rigid Strut	VT-3	1	341-101
F1.10	1E32-H0124	Mechanical Snub.	VT-3	1	341-101
F1.10	1E32-H0125	Mechanical Snub.	VT-3	1	341-101
F2.10	1E51-C001-SP	Anchor (WA)	VT-3	1, 3	631-109
F2.10	1E51-C002-SP	Anchor	VT-3	1	632-103
F1.10	1E51-G202A	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS*	632-101
F2.10	1E51-H0003	Rigid Strut	VT-3	NS*	631-110
F2.10	1E51-H0004	Rigid Strut	VT-3	NS*	631-111
F2.10	1E51-H0005	Rigid Guide	VT-3	NS*	631-111
F2.10	1E51-H0008	Mechanical Snub.	VT-3	2	632-103
F2.10	1E51-H0015	Variable Spring	VT-3	NS*	631-110
F2.10	1E51-H0019	Rigid Strut	VT-3	NS*	631-110
F2.10	1E51-H0021	Variable Spring	VT-3	NS*	632-103
F2.10	1E51-H0026	Anchor (WA)	VT-3	1	632-105

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1E51-H0028	Rigid Guide	VT-3	1	632-105
F2.10	1E51-H0029	Rigid Strut	VT-3	2	632-105
F2.10	1E51-H0030	Variab'le Spring	VT-3	2	631-101
F2.10	1E51-H0031	Rigid Guide	VT-3	NS*	631-111
F2.10	1E51-H0032	Rigid Guide	VT-3	NS*	631-111
F2.10	1E51-H0034	Variable Spring	VT-3	NS*	631-112
F2.10	1E51-H0035	Rigid Strut	VT-3	NS*	631-112
F1.10	1E51-H0037	Rigid Strut	VT-3	1	631-106
F1.10	1E51-H0038	Variable Spring	VT-3	1	631-106
F1.10	1E51-H0039	Rigid Strut	VT-3	2	631-106
F1.10	1E51-H0040	Variable Spring	VT-3	2	631-105
F2.10	1E51-H0041	Rigid Guide (WA)	VT-3	2	631-104
F2.10	1E51-H0042	Anchor (WA)	VT-3	3	631-102
F2.10	1E51-H0044	Variable Spring	VT-3	3	631-102
F2.10	1E51-H0045	Rigid Strut	VT-3	3	631-102
F2.10	1E51-H0046	Rigid Strut	VT-3	1	631-102
F2.10	1E51-H0055	Rigid Strut (WA)	VT-3	2	632-104
F2.10	1E51-H0056	Mechanical Snub.	VT-3	3	632-104
F2.10	1E51-H0057	Mechanical Snub.	VT-3	1	631-102
F2.10	1E51-H0058	Variable Spring	VT-3	2	631-102
F1.10	1E51-H0071	Rigid Guide	VT-3	2	631-108
F1.10	1E51-H0072	Mechanical Snub.	VT-3	3	631-108
F1.10	1E51-H0073	Mechanical Snub.	VT-3	1	631-108
F1.10	1E51-H0074	Mechanical Snub.	VT-3	1	631-108
F1.10	1E51-H0075	Variable Spring	VT-3	1	631-107
F1.10	1E51-H0076	Rigid Strut	VT-3	2	631-107
F1.10	1E51-H0078	Rigid Strut	VT-3	2	631-107
F1.10	1E51-H0079	Rigid Strut	VT-3	3	631-107
F1.10	1E51-H0080	Rigid Strut	VT-3	3	631-107
F1.10	1E51-H0081	Rigid Strut	VT-3	3	631-107
F1.10	1E51-H0102	Rigid Guide (WA)	VT-3	1	632-101
F1.10	1E51-H0107	Mechanical Snub.	VT-3	1	632-101
F1.10	1E51-H0108	Mechanical Snub.	VT-3	2	632-101
F1.10	1E51-H0109	Variable Spring	VT-3	2	632-101
F1.10	1E51-H0110	Mechanical Snub.	VT-3	3	632-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1E51-H0111	Mechanical Snub.	VT-3	3	632-101
F1.10	1E51-H0113	Mechanical Snub.	VT-3	1	632-101
F1.10	1E51-H0114	Mechanical Snub.	VT-3	1	632-101
F1.10	1E51-H0129	Rigid Guide	VT-3	2	632-101
F2.10	1E51-H0131	Rigid Guide	VT-3	2	632-103
F2.10	1E51-H0137	Rigid Strut	VT-3	2	631-105
F2.10	1E51-H0138	Variable Spring	VT-3	3	631-103
F2.10	1E51-H0140	Rigid Strut	VT-3	NS*	631-110
F2.10	1E51-H0141	Variable Spring	VT-3	3	632-102
F1.10	1E51-H0150	Variable Spring (WA)	VT-3	2	632-108
F1.10	1E51-H0151	Rigid Strut	VT-3	3	631-107
F2.10	1E51-H0156	Mechanical Snub.	VT-3	1	632-103
F1.10	1E51-H5002	Rigid Guide	VT-3	3	632-101
F2.10	1E51-P101-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	631-112
F2.10	1E51-P101-SP2	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	631-112
F1.10	1E51-P123-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	631-106
F1.10	1E51-P123-SP2	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	631-106
F1.10	1G33-H0017	Mechanical Snub.	VT-3	1	671-107
F1.10	1G33-H0018	Mechanical Snub.	VT-3	1	671-107
F1.10	1G33-H0020	Rigid Strut	VT-3	2	671-107
F1.10	1G33-H0021	Mechanical Snub.	VT-3	2	671-107
F1.10	1G33-H0023	Mechanical Snub.	VT-3	3	671-105
F1.10	1G33-H0024	Rigid Strut	VT-3	3	671-106
F1.10	1G33-H0025	Rigid Strut	VT-3	3	671-106
F1.10	1G33-H0026	Mechanical Snub.	VT-3	1	671-106
F1.10	1G33-H0027	Rigid Strut (Tandem)	VT-3	1	671-106
F1.10	1G33-H0028	Rigid Guide	VT-3	2	671-106
F1.10	1G33-H0029	Rigid Strut	VT-3	2	671-106
F1.10	1G33-H0030	Mechanical Snub.	VT-3	3	671-105
F1.10	1G33-H0033	Variable Spring	VT-3	3	671-105
F1.10	1G33-H0034	Mechanical Snub.	VT-3	3	671-106
F1.10	1G33-H0078	Variable Spring	VT-3	1	671-102
F1.10	1G33-H0079	Variable Spring (Tandem)	VT-3	1	671-102
F1.10	1G33-H0080	Variable Spring (WA < .625")	VT-3	1	671-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1G33-H0081	Variable Spring	VT-3	1	671-103
F1.10	1G33-H0082	Mechanical Snub.	VT-3	1	671-107
F1.10	1G33-H0083	Mechanical Snub.	VT-3	1	671-103
F1.10	1G33-H0087	Mechanical Snub.	VT-3	2	671-107
F1.10	1G33-H0088	Rigid Strut	VT-3	2	671-107
F1.10	1G33-H0089	Mechanical Snub.	VT-3	2	671-102
F1.10	1G33-H0090	Mechanical Snub.	VT-3	2	671-102
F1.10	1G33-H0091	Mechanical Snub.	VT-3	3	671-102
F1.10	1G33-H0092	Mechanical Snub.	VT-3	3	671-102
F1.10	1G33-H0093	Rigid Strut	VT-3	3	671-103
F1.10	1G33-H0094	Rigid Strut	VT-3	1	671-102
F1.10	1G33-H0095	Rigid Strut	VT-3	3	671-105
F1.10	1G33-H0096	Mechanical Snub.	VT-3	1	671-102
F1.10	1G33-H0097	Mechanical Snub.	VT-3	2	671-103
F1.10	1G33-H0098	Mechanical Snub.	VT-3	3	671-105
F1.10	1G33-H0099	Mechanical Snub.	VT-3	1	671-105
F1.10	1G33-H0100	Rigid Strut	VT-3	1	671-105
F5.10	1G33-H0142	Mechanical Snub. (Augmented HEPIBER)	VT-3	1	671-104
F5.10	1G33-H0144	Mechanical Snub. (Augmented HEPIBER)	VT-3	2	671-104
F5.10	1G33-H0145	Variable Spring (Augmented HEPIBER)	VT-3	2	671-104
F5.10	1G33-H0146	Mechanical Snub. (Augmented HEPIBER)	VT-3	3	671-104
F1.10	1G33-H0165	Rigid Strut	VT-3	2	671-106
F2.10	1G33-H0179	Variable Spring	VT-3	1	672-102
F2.10	1G33-H0188	Variable Spring	VT-3	1	672-101
F2.10	1G33-H0190	Variable Spring	VT-3	2	672-101
F1.10	1G33-H0204	Variable Spring	VT-3	2	671-105
F1.10	1G33-H0205	Rigid Guide	VT-3	3	671-106
F1.10	1G33-H0206	Variable Spring	VT-3	3	671-107
F1.10	1G33-H0208	Mechanical Snub.	VT-3	1	671-102
F1.10	1G33-H0210	Mechanical Snub.	VT-3	2	671-102
F1.10	1G33-H0211	Mechanical Snub.	VT-3	3	671-102
F1.10	1G33-H0212	Mechanical Snub.	VT-3	3	671-105
F1.10	1G33-H0213	Mechanical Snub.	VT-3	1	671-106
F2.10	1G33-H0215	Mechanical Snub.	VT-3	2	672-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F2.10	1G33-H0216	Mechanical Snub.	VT-3	3	672-102
F2.10	1G33-H0217	Mechanical Snub.	VT-3	3	672-102
F2.10	1G33-H0218	Mechanical Snub.	VT-3	3	672-102
F2.10	1G33-H0219	Mechanical Snub.	VT-3	1	672-101
F2.10	1G33-H0220	Mechanical Snub.	VT-3	1	672-101
F2.10	1G33-H0221	Mechanical Snub.	VT-3	2	672-101
F2.10	1G33-H0222	Mechanical Snub.	VT-3	2	672-101
F2.10	1G33-H0223	Mechanical Snub.	VT-3	3	672-101
F2.10	1G33-H0224	Mechanical Snub. (Tandem)	VT-3	1	672-101
F5.10	1G33-H0238	Rigid Strut (Augmented HEPIBER)	VT-3	1	671-104
F2.10	1G33-H0239	Mechanical Snub.	VT-3	3	672-101
F2.10	1G33-H0240	Mechanical Snub.	VT-3	2	672-101
F5.10	1G33-H0269	Mechanical Snub. (Augmented HEPIBER)	VT-3	2	672-103
F5.10	1G33-H0271	Rigid Strut (Augmented HEPIBER)	VT-3	2	672-103
F2.10	1G33-H0273	Variable Spring	VT-3	3	672-102
F1.10	1G33-H0274	Mechanical Snub.	VT-3	2	671-106
F1.10	1G33-H0275	Variable Spring	VT-3	1	671-105
F1.10	1G33-H0276	Mechanical Snub.	VT-3	2	671-105
F1.10	1G33-H0277	Mechanical Snub.	VT-3	2	671-105
F1.10	1G33-H0278	Variable Spring	VT-3	3	671-107
F1.10	1G33-H0279	Mechanical Snub.	VT-3	3	671-107
F1.10	1G33-H0280	Mechanical Snub.	VT-3	1	671-107
F1.10	1G33-H0281	Mechanical Snub.	VT-3	3	671-103
F1.10	1G33-H0282	Mechanical Snub.	VT-3	3	671-103
F1.10	1G33-H5001	Mechanical Snub.	VT-3	3	671-107
F1.10	1G33-P131-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	671-104
F1.10	1G33-P131-SP2	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	671-104
F2.10	1G33-P132-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	672-102
F3.10	1G41-A002A-SP	Anchor, Surge Tank (WA)	VT-3	1	655-118
F3.10	1G41-A002B-SP	Anchor, Surge Tank (WA)	VT-3	2	655-119
F3.10	1G41-B001A-SP	Anchor, Ht. Exchanger (WA)	VT-3	3	654-108
F3.10	1G41-B001B-SP	Anchor, Ht. Exchanger (WA)	VT-3	1	654-108
F3.10	1G41-H0001	Rigid Strut	VT-3	2	655-116
F3.10	1G41-H0002	Rigid Strut	VT-3	3	655-116

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0003	Rigid Strut	VT-3	1	655-117
F3.10	1G41-H0004	Rigid Strut	VT-3	2	655-117
F3.10	1G41-H0005	Rigid Strut	VT-3	3	655-117
F3.10	1G41-H0006	Rigid Strut	VT-3	1	655-117
F3.10	1G41-H0007	Rigid Strut	VT-3	2	655-117
F3.10	1G41-H0008	Rigid Strut	VT-3	3	655-117
F3.10	1G41-H0011	Rigid Guide	VT-3	1	655-117
F3.10	1G41-H0012	Mechanical Snub. (Tandem)	VT-3	2	655-117
F3.10	1G41-H0013	Rigid Guide	VT-3	3	655-117
F3.10	1G41-H0015	Rigid Guide	VT-3	1	655-117
F3.10	1G41-H0016	Rigid Guide	VT-3	2	655-117
F3.10	1G41-H0017	Rigid Guide	VT-3	3	655-117
F3.10	1G41-H0018	Rigid Guide	VT-3	1	655-117
F3.10	1G41-H0019	Rigid Guide	VT-3	2	655-117
F3.10	1G41-H0020	Rigid Guide	VT-3	3	655-117
F3.10	1G41-H0021	Rigid Guide	VT-3	1	655-117
F3.10	1G41-H0022	Rigid Guide	VT-3	2	655-117
F3.10	1G41-H0023	Rigid Guide	VT-3	3	655-117
F3.10	1G41-H0024	Rigid Guide	VT-3	1	655-117
F3.10	1G41-H0025	Mechanical Snub.	VT-3	2	655-117
F3.10	1G41-H0026	Rigid Strut (WA)	VT-3	1	655-117
F3.10	1G41-H0027	Rigid Strut	VT-3	2	655-117
F3.10	1G41-H0030	Rigid Guide	VT-3	3	655-110
F3.10	1G41-H0031	Rigid Guide	VT-3	1	655-110
F3.10	1G41-H0032	Variable Spring	VT-3	2	655-110
F3.10	1G41-H0033	Rigid Guide	VT-3	3	655-110
F3.10	1G41-H0034	Rigid Guide	VT-3	1	655-110
F3.10	1G41-H0035	Rigid Guide	VT-3	2	655-110
F3.10	1G41-H0036	Rigid Strut	VT-3	3	655-110
F3.10	1G41-H0037	Mechanical Snub. (Tandem)	VT-3	1	655-110
F3.10	1G41-H0038	Variable Spring (WA)	VT-3	2	655-110
F3.10	1G41-H0039	Rigid Strut	VT-3	3	655-110
F3.10	1G41-H0040	Rigid Strut	VT-3	1	655-110
F3.10	1G41-H0041	Rigid Strut (WA)	VT-3	2	655-110
F3.10	1G41-H0042	Rigid Strut	VT-3	3	655-110

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0043	Rigid Strut	VT-3	1	655-110
F3.10	1G41-H0044	Rigid Strut	VT-3	2	655-110
F3.10	1G41-H0045	Rigid Strut (WA)	VT-3	3	655-110
F3.10	1G41-H0047	Rigid Strut	VT-3	1	651-103
F3.10	1G41-H0046	Mechanical Snub.	VT-3	2	651-103
F3.10	1G41-H0049	Rigid Strut	VT-3	3	651-103
F3.10	1G41-H0050	Mechanical Snub.	VT-3	2	655-107
F3.10	1G41-H0051	Mechanical Snub.	VT-3	1	655-107
F3.10	1G41-H0052	Rigid Strut	VT-3	3	655-107
F3.10	1G41-H0053	Rigid Guide	VT-3	2	655-107
F3.10	1G41-H0054	Rigid Guide (WA)	VT-3	2	655-107
F3.10	1G41-H0055	Variable Spring	VT-3	3	655-107
F3.10	1G41-H0056	Rigid Strut	VT-3	1	655-107
F3.10	1G41-H0057	Variable Spring	VT-3	2	655-107
F3.10	1G41-H0058	Rigid Guide	VT-3	3	655-107
F3.10	1G41-H0059	Mechanical Snub.	VT-3	2	655-107
F3.10	1G41-H0060	Rigid Guide	VT-3	2	654-104
F3.10	1G41-H0061	Rigid Guide	VT-3	3	654-104
F3.10	1G41-H0062	Rigid Strut	VT-3	1	654-104
F3.10	1G41-H0063	Rigid Strut	VT-3	2	654-104
F3.10	1G41-H0064	Rigid Guide	VT-3	3	654-104
F3.10	1G41-H0065	Variable Spring	VT-3	1	654-104
F3.10	1G41-H0066	Rigid Strut	VT-3	2	654-104
F3.10	1G41-H0068	Mechanical Snub.	VT-3	3	654-101
F3.10	1G41-H0069	Rigid Guide	VT-3	2	654-101
F3.10	1G41-H0070	Mechanical Snub. (WA)	VT-3	2	654-101
F3.10	1G41-H0071	Rigid Guide	VT-3	3	654-101
F3.10	1G41-H0072	Variable Spring (Tandem)	VT-3	1	654-101
F3.10	1G41-H0073	Rigid Strut	VT-3	2	654-101
F3.10	1G41-H0074	Variable Spring	VT-3	3	654-101
F3.10	1G41-H0075	Rigid Guide	VT-3	1	654-101
F3.10	1G41-H0076	Rigid Strut	VT-3	2	654-101
F3.10	1G41-H0090	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0091	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0094	Rigid Strut	VT-3	2	655-109

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0095	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0096	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0097	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0098	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0099	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0100	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0101	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0102	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0103	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0104	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0105	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0106	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0107	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0108	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0109	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0110	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0111	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0112	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0113	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0114	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0115	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0117	Rigid Strut	VT-3	1	655-112
F3.10	1G41-H0118	Rigid Strut	VT-3	2	655-108
F3.10	1G41-H0119	Mechanical Snub.	VT-3	3	655-108
F3.10	1G41-H0120	Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0121	Mechanical Snub.	VT-3	1	655-108
F3.10	1G41-H0122	Rigid Strut	VT-3	3	655-108
F3.10	1G41-H0123	Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0124	Rigid Strut	VT-3	2	655-108
F3.10	1G41-H0125	Rigid Strut	VT-3	3	655-108
F3.10	1G41-H0126	Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0127	Rigid Strut	VT-3	2	655-108
F3.10	1G41-H0128	Rigid Guide	VT-3	3	655-108
F3.10	1G41-H0129	Rigid Strut (VA)	VT-3	1	655-108
F3.10	1G41-H0130	Rigid Guide	VT-3	2	655-108

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0131	Rigid Guide	VT-3	3	655-108
F3.10	1G41-H0133	Rigid Guide	VT-3	1	655-108
F3.10	1G41-H0135	Rigid Guide	VT-3	2	655-108
F3.10	1G41-H0137	Rigid Strut	VT-3	3	655-108
F3.10	1G41-H0139	Rigid Strut (WA)	VT-3	2	655-108
F3.10	1G41-H0140	Rigid Guide	VT-3	2	655-108
F3.10	1G41-H0141	Rigid Guide	VT-3	3	655-108
F3.10	1G41-H0158	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0159	Rigid Strut	VT-3	2	655-109
F3.10	1G41-H0160	Rigid Strut	VT-3	3	655-109
F3.10	1G41-H0161	Rigid Strut	VT-3	1	655-109
F3.10	1G41-H0162	Rigid Strut	VT-3	2	655-111
F3.10	1G41-H0163	Rigid Strut	VT-3	3	655-111
F3.10	1G41-H0164	Rigid Strut	VT-3	1	655-111
F3.10	1G41-H0165	Rigid Strut	VT-3	2	655-111
F3.10	1G41-H0166	Rigid Strut	VT-3	2	655-111
F3.10	1G41-H0167	Rigid Strut	VT-3	1	655-111
F3.10	1G41-H0168	Rigid Strut	VT-3	2	655-111
F3.10	1G41-H0169	Rigid Strut	VT-3	3	655-111
F3.10	1G41-H0170	Mechanical Snub.	VT-3	1	655-111
F3.10	1G41-H0171	Mechanical Snub.	VT-3	2	655-111
F3.10	1G41-H0172	Rigid Guide	VT-3	3	655-112
F3.10	1G41-H0173	Rigid Guide	VT-3	1	655-112
F3.10	1G41-H0174	Rigid Guide	VT-3	2	655-112
F3.10	1G41-H0175	Rigid Strut	VT-3	3	655-112
F3.10	1G41-H0176	Rigid Strut	VT-3	1	655-112
F3.10	1G41-H0177	Rigid Strut	VT-3	2	655-112
F3.10	1G41-H0178	Variable Spring	VT-3	3	654-103
F3.10	1G41-H0179	Mechanical Snub. & Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0184	Rigid Strut (WA)	VT-3	3	655-108
F3.10	1G41-H0189	Rigid Guide	VT-3	2	655-112
F3.10	1G41-H0190	Rigid Strut	VT-3	3	655-112
F3.10	1G41-H0191	Mechanical Snub.	VT-3	1	655-112
F3.10	1G41-H0192	Rigid Guide	VT-3	2	655-112
F3.10	1G41-H0193	Rigid Guide	VT-3	3	655-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0194	Rigid Guide	VT-3	1	655-112
F3.10	1G41-H0195	Rigid Strut	VT-3	2	655-112
F3.10	1G41-H0196	Rigid Strut	VT-3	3	655-112
F3.10	1G41-H0197	Rigid Strut	VT-3	1	655-112
F3.10	1G41-H0198	Rigid Strut	VT-3	2	655-112
F3.10	1G41-H0199	Rigid Strut	VT-3	3	655-112
F3.10	1G41-H0200	Rigid Strut	VT-3	1	655-112
F3.10	1G41-H0205	Rigid Guide	VT-3	3	654-107
F3.10	1G41-H0206	Rigid Strut	VT-3	1	654-107
F3.10	1G41-H0207	Rigid Strut	VT-3	2	654-107
F3.10	1G41-H0208	Rigid Strut	VT-3	3	654-107
F3.10	1G41-H0209	Rigid Guide	VT-3	1	654-107
F3.10	1G41-H0210	Rigid Guide	VT-3	2	654-107
F3.10	1G41-H0211	Rigid Strut	VT-3	3	654-107
F3.10	1G41-H0212	Rigid Strut	VT-3	1	654-107
F3.10	1G41-H0213	Rigid Strut	VT-3	2	654-107
F3.10	1G41-H0214	Rigid Guide	VT-3	3	654-107
F3.10	1G41-H0215	Rigid Strut	VT-3	1	654-106
F3.10	1G41-H0216	Rigid Strut	VT-3	2	654-107
F3.10	1G41-H0217	Rigid Strut	VT-3	3	654-107
F3.10	1G41-H0218	Rigid Strut	VT-3	1	654-107
F3.10	1G41-H0219	Rigid Strut	VT-3	2	654-107
F3.10	1G41-H0220	Rigid Strut	VT-3	3	654-106
F3.10	1G41-H0221	Rigid Guide (WA)	VT-3	1	651-101
F3.10	1G41-H0222	Rigid Strut	VT-3	2	651-101
F3.10	1G41-H0223	Rigid Guide	VT-3	3	651-101
F3.10	1G41-H0224	Rigid Guide	VT-3	1	651-101
F3.10	1G41-H0225	Rigid Strut	VT-3	2	651-101
F3.10	1G41-H0226	Rigid Strut	VT-3	3	655-111
F3.10	1G41-H0227	Mechanical Snub.	VT-3	1	655-111
F3.10	1G41-H0228	Mechanical Snub. (Tandem)	VT-3	3	655-111
F3.10	1G41-H0229	Rigid Strut	VT-3	1	655-111
F3.10	1G41-H0230	Mechanical Snub.	VT-3	2	655-111
F3.10	1G41-H0231	Rigid Strut	VT-3	3	655-111
F3.10	1G41-H0232	Mechanical Snub.	VT-3	1	655-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0233	Mechanical Snub.	VT-3	2	655-111
F3.10	1G41-H0234	Rigid Strut	VT-3	3	655-111
F3.10	1G41-H0235	Rigid Strut	VT-3	1	655-111
F3.10	1G41-H0236	Mechanical Snub. (WA) (Tandem)	VT-3	2	655-111
F3.10	1G41-H0238	Mechanical Snub. (WA)	VT-3	1	655-112
F3.10	1G41-H0239	Rigid Strut	VT-3	1	655-111
F3.10	1G41-H0241	Mechanical Snub.	VT-3	2	655-112
F3.10	1G41-H0242	Mechanical Snub. (WA) (Tandem)	VT-3	3	655-109
F3.10	1G41-H0243	Mechanical Snub.	VT-3	1	655-111
F3.10	1G41-H0244	Rigid Strut (WA)	VT-3	2	655-112
F3.10	1G41-H0246	Rigid Strut	VT-3	3	654-106
F3.10	1G41-H0247	Rigid Guide	VT-3	1	654-106
F3.10	1G41-H0248	Rigid Guide	VT-3	2	654-106
F3.10	1G41-H0250	Rigid Strut	VT-3	3	654-102
F3.10	1G41-H0251	Rigid Strut	VT-3	1	651-101
F3.10	1G41-H0252	Rigid Strut	VT-3	2	651-101
F3.10	1G41-H0253	Rigid Strut	VT-3	3	654-106
F3.10	1G41-H0256	Rigid Guide	VT-3	1	654-107
F3.10	1G41-H0257	Rigid Guide	VT-3	2	654-106
F3.10	1G41-H0260	Rigid Strut	VT-3	1	654-102
F3.10	1G41-H0261	Rigid Strut	VT-3	2	654-102
F3.10	1G41-H0262	Rigid Strut	VT-3	3	654-106
F3.10	1G41-H0263	Rigid Strut	VT-3	1	655-113
F3.10	1G41-H0266	Rigid Strut	VT-3	3	655-113
F3.10	1G41-H0267	Rigid Strut	VT-3	1	655-113
F3.10	1G41-H0268	Rigid Strut	VT-3	2	655-113
F3.10	1G41-H0269	Rigid Strut	VT-3	2	651-101
F3.10	1G41-H0273	Rigid Strut (WA)	VT-3	3	654-107
F3.10	1G41-H0275	Rigid Strut (WA)	VT-3	2	654-107
F3.10	1G41-H0276	Rigid Strut	VT-3	3	651-101
F3.10	1G41-H0277	Rigid Strut	VT-3	1	654-104
F3.10	1G41-H0278	Rigid Strut	VT-3	2	651-103
F3.10	1G41-H0279	Rigid Strut	VT-3	3	651-103
F3.10	1G41-H0280	Rigid Strut	VT-3	1	651-103
F3.10	1G41-H0281	Rigid Guide (WA)	VT-3	2	651-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0282	Rigid Strut	VT-3	3	651-103
F3.10	1G41-H0283	Rigid Strut	VT-3	1	651-103
F3.10	1G41-H0284	Rigid Strut	VT-3	2	651-103
F3.10	1G41-H0287	Rigid Guide	VT-3	3	654-105
F3.10	1G41-H0288	Rigid Guide	VT-3	1	654-105
F3.10	1G41-H0290	Rigid Guide	VT-3	2	654-105
F3.10	1G41-H0291	Rigid Guide	VT-3	3	654-105
F3.10	1G41-H0292	Rigid Guide	VT-3	1	654-105
F3.10	1G41-H0293	Rigid Guide	VT-3	'	654-105
F3.10	1G41-H0294	Rigid Strut	VT-3	3	654-105
F3.10	1G41-H0295	Rigid Strut	VT-3	1	654-105
F3.10	1G41-H0296	Rigid Strut	VT-3	2	654-105
F3.10	1G41-H0297	Rigid Strut	VT-3	3	654-105
F3.10	1G41-H0298	Rigid Strut	VT-3	1	654-105
F3.10	1G41-H0299	Rigid Strut	VT-3	2	654-105
F3.10	1G41-H0300	Rigid Guide	VT-3	3	654-105
F3.10	1G41-H0301	Mechanical Snub.	VT-3	1	654-105
F3.10	1G41-H0302	Rigid Strut	VT-3	2	654-105
F3.10	1G41-H0303	Rigid Strut	VT-3	3	654-105
F3.10	1G41-H0304	Rigid Strut	VT-3	1	654-105
F3.10	1G41-H0305	Rigid Strut	VT-3	2	654-105
F3.10	1G41-H0306	Rigid Strut	VT-3	3	654-105
F3.10	1G41-H0307	Rigid Strut	VT-3	1	654-105
F3.10	1G41-H0308	Rigid Guide	VT-3	3	654-103
F3.10	1G41-H0309	Rigid Guide (WA)	VT-3	3	654-103
F3.10	1G41-H0310	Rigid Guide	VT-3	1	654-103
F3.10	1G41-H0311	Variable Spring	VT-3	2	654-102
F3.10	1G41-H0312	Rigid Strut	VT-3	3	654-102
F3.10	1G41-H0313	Rigid Strut	VT-3	1	654-102
F3.10	1G41-H0314	Rigid Strut	VT-3	2	654-102
F3.10	1G41-H0315	Rigid Strut	VT-3	3	654-102
F3.10	1G41-H0316	Rigid Guide (WA)	VT-3	2	654-102
F3.10	1G41-H0318	Rigid Guide	VT-3	2	655-104
F3.10	1G41-H0362	Rigid Guide	VT-3	1	655-115
F3.10	1G41-H0363	Mechanical Snub.	VT-3	2	655-115

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0364	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0365	Rigid Strut	VT-3	1	655-115
F3.10	1G41-H0366	Rigid Strut	VT-3	2	655-115
F3.10	1G41-H0367	Rigid Guide	VT-3	3	655-115
F3.10	1G41-H0368	Mechanical Snub.	VT-3	1	655-115
F3.10	1G41-H0369	Mechanical Snub.	VT-3	2	655-116
F3.10	1G41-H0370	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0371	Rigid Strut	VT-3	1	655-115
F3.10	1G41-H0372	Rigid Strut	VT-3	2	655-115
F3.10	1G41-H0373	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0374	Rigid Strut	VT-3	1	655-115
F3.10	1G41-H0375	Rigid Strut	VT-3	2	655-115
F3.10	1G41-H0376	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0377	Rigid Strut	VT-3	1	655-115
F3.10	1G41-H0378	Rigid Strut	VT-3	2	655-115
F3.10	1G41-H0379	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0380	Rigid Strut	VT-3	1	655-115
F3.10	1G41-H0381	Rigid Strut	VT-3	2	655-115
F3.10	1G41-H0382	Rigid Guide	VT-3	3	655-115
F3.10	1G41-H0383	Rigid Strut	VT-3	1	655-116
F3.10	1G41-H0384	Rigid Strut	VT-3	2	655-116
F3.10	1G41-H0385	Rigid Strut	VT-3	3	655-116
F3.10	1G41-H0386	Rigid Strut	VT-3	1	655-116
F3.10	1G41-H0387	Rigid Strut	VT-3	2	655-116
F3.10	1G41-H0388	Mechanical Snub.	VT-3	3	655-116
F3.10	1G41-H0389	Mechanical Snub.	VT-3	1	655-116
F3.10	1G41-H0390	Rigid Strut	VT-3	2	655-116
F3.10	1G41-H0391	Rigid Strut	VT-3	3	655-116
F3.10	1G41-H0392	Rigid Strut	VT-3	1	655-116
F3.10	1G41-H0393	Rigid Strut	VT-3	2	655-116
F3.10	1G41-H0394	Rigid Strut	VT-3	3	655-114
F3.10	1G41-H0395	Rigid Strut	VT-3	1	655-114
F3.10	1G41-H0396	Rigid Guide (VA)	VT-3	NS**	655-114
F3.10	1G41-H0400	Rigid Guide	VT-3	2	655-105
F3.10	1G41-H0401	Rigid Guide	VT-3	3	655-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H0404	Anchor (WA)	VT-3	2	655-105
F3.10	1G41-H0407	Rigid Strut	VT-3	2	655-104
F3.10	1G41-H0408	Rigid Strut	VT-3	3	655-104
F3.10	1G41-H0409	Rigid Strut	VT-3	1	655-106
F3.10	1G41-H0410	Rigid Strut	VT-3	2	655-106
F3.10	1G41-H0415	Anchor (WA)	VT-3	3	654-103
F3.10	1G41-H0416	Rigid Guide	VT-3	1	651-102
F3.10	1G41-H0418	Rigid Guide	VT-3	2	651-102
F3.10	1G41-H0425	Anchor (WA)	VT-3	3	654-102
F3.10	1G41-H0427	Anchor (WA)	VT-3	2	655-116
F3.10	1G41-H0429	Rigid Strut (WA)	VT-3	3	651-102
F3.10	1G41-H0430	Rigid Strut	VT-3	1	655-112
F3.10	1G41-H0449	Variable Spring	VT-3	2	654-101
F3.10	1G41-H0450	Mechanical Snub. (Tandem)	VT-3	3	654-101
F3.10	1G41-H0453	Rigid Strut	VT-3	1	655-105
F3.10	1G41-H0460	Rigid Guide	VT-3	2	655-105
F3.10	1G41-H0471	Rigid Strut	VT-3	3	655-115
F3.10	1G41-H0472	Mechanical Snub.	VT-3	1	655-115
F3.10	1G41-H0478	Mechanical Snub.	VT-3	3	655-114
F3.10	1G41-H0481	Rigid Strut (WA)	VT-3	2	654-105
F3.10	1G41-H0484	Rigid Strut	VT-3	2	655-108
F3.10	1G41-H0485	Rigid Strut	VT-3	3	655-106
F3.10	1G41-H0486	Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0487	Rigid Strut	VT-3	2	655-112
F3.10	1G41-H0488	Rigid Strut	VT-3	3	655-112
F3.10	1G41-H0489	Rigid Strut	VT-3	1	655-108
F3.10	1G41-H0492	Rigid Strut	VT-3	2	655-106
F3.10	1G41-H0493	Mechanical Snub.	VT-3	3	651-101
F3.10	1G41-H0494	Mechanical Snub.	VT-3	1	655-108
F3.10	1G41-H0498	Rigid Strut	VT-3	2	651-103
F3.10	1G41-H0499	Rigid Strut	VT-3	3	651-103
F3.10	1G41-H0500	Rigid Guide	VT-3	1	654-104
F3.10	1G41-H0501	Rigid Strut	VT-3	2	654-104
F3.10	1G41-H0502	Rigid Strut	VT-3	3	651-101
F3.10	1G41-H0503	Variable Spring	VT-3	1	654-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1G41-H5000	Rigid Guide	VT-3	2	654-106
F3.10	1G41-H5001	Mechanical Snub. (WA) (Tandem)	VT-3	3	655-108
F3.10	1G42-H0004	Mechanical Snub.	VT-3	2	655-101
F3.10	1G42-H0005	Rigid Guide (WA)	VT-3	3	655-101
F3.10	1G42-H0006	Rigid Guide	VT-3	1	655-101
F3.10	1G42-H0007	Rigid Guide	VT-3	2	655-101
F3.10	1G42-H0008	Rigid Strut	VT-3	3	655-101
F3.10	1G42-H0009	Rigid Strut	VT-3	1	655-101
F3.10	1G42-H0010	Rigid Strut	VT-3	2	655-101
F3.10	1G42-H0012	Rigid Rod	VT-3	3	655-101
F3.10	1G42-H0013	Mechanical Snub. (WA)	VT-3	3	655-101
F3.10	1G42-H0014	Rigid Strut	VT-3	1	655-101
F3.10	1G42-H0015	Rigid Strut	VT-3	2	655-101
F3.10	1G42-H0016	Rigid Rod	VT-3	3	655-101
F3.10	1G42-H0017	Rigid Guide	VT-3	1	655-101
F2.10	1N11-H0221	Rigid Guide (WA)	VT-3	1	605-108
F2.10	1N11-H0222	Rigid Guide (WA)	VT-3	3	605-110
F2.10	1N11-H0223	Rigid Guide (WA)	VT-3	3	605-107
F2.10	1N11-H0224	Rigid Guide (WA)	VT-3	3	605-109
F2.10	1N11-H0229	Variable Spring	VT-3	1	605-108
F2.10	1N11-H0230	Variable Spring	VT-3	2	605-110
F2.10	1N11-H0231	Variable Spring	VT-3	3	605-107
F2.10	1N11-H0232	Variable Spring	VT-3	3	605-109
F1.10	1N22-H0003	Mechanical Snub.	VT-3	1	121-101
F1.10	1N22-H0004	Mechanical Snub.	VT-3	2	121-102
F1.10	1N22-H0005	Variable Spring	VT-3	2	121-102
F1.10	1N22-H0006	Mechanical Snub.	VT-3	2	121-102
F1.10	1N22-H0007	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0008	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0009	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0010	Variable Spring	VT-3	1	121-102
F1.10	1N22-H0011	Mechanical Snub.	VT-3	2	121-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1N22-H0012	Mechanical Snub.	VT-3	2	121-102
F1.10	1N22-H0013	Mechanical Snub.	VT-3	2	121-102
F1.10	1N22-H0014	Mechanical Snub.	VT-3	3	121-101
F1.10	1N22-H0015	Mechanical Snub.	VT-3	3	121-101
F1.10	1N22-H0016	Mechanical Snub.	VT-3	3	121-101
F1.10	1N22-H0017	Mechanical Snub.	VT-3	1	121-101
F1.10	1N22-H0018	Rigid Strut	VT-3	2	121-101
F1.10	1N22-H0019	Variable Spring	VT-3	2	121-101
F1.10	1N22-H0126	Mechanical Snub.	VT-3	2	121-101
F1.10	1N22-H0127	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0128	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0129	Mechanical Snub.	VT-3	1	121-102
F1.10	1N22-H0130	Mechanical Snub.	VT-3	3	121-102
F1.10	1N22-H0131	Mechanical Snub.	VT-3	1	121-103
F1.10	1N22-H0132	Rigid Strut	VT-3	1	121-101
F1.10	1N22-H0148	Mechanical Snub.	VT-3	1	121-103
F1.10	1N22-P423-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	1	121-101
F1.10	1N22-P423-SP2	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	121-103
F1.10	1N22-P423-SP3	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	121-103
F1.10	1N27-H0001	Hydraulic Snub.	VT-3	1	082-103
F1.10	1N27-H0002	Hydraulic Snub.	VT-3	2	082-103
F1.10	1N27-H0004	Hydraulic Snub.	VT-3	1	082-102
F1.10	1N27-H0005	Hydraulic Snub.	VT-3	1	082-102
F1.10	1N27-H0006	Hydraulic Snub.	VT-3	1	082-102
F1.10	1N27-H0007	Hydraulic Snub.	VT-3	2	082-102
F1.10	1N27-H0008	Hydraulic Snub.	VT-3	2	082-102
F1.10	1N27-H0009	Hydraulic Snub.	VT-3	3	082-102
F1.10	1N27-H0010	Variable Spring (WA)	VT-3	3	082-102
F1.10	1N27-H0011	Variable Spring	VT-3	3	082-103
F1.10	1N27-H0012	Variable Spring (Tandem)	VT-3	1	082-102
F1.10	1N27-H0013	Hydraulic Snub.	VT-3	1	082-102
F1.10	1N27-H0014	Hydraulic Snub.	VT-3	3	082-106
F1.10	1N27-H0016	Hydraulic Snub.	VT-3	3	082-106
F1.10	1N27-H0017	Hydraulic Snub.	VT-3	2	082-105
F1.10	1N27-H0017	Hydraulic Snub.	VT-3	2	082-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F1.10	1N27-H0018	Hydraulic Snub.	VT-3	3	082-105
F1.10	1N27-H0019	Hydraulic Snub.	VT-3	3	082-105
F1.10	1N27-H0020	Hydraulic Snub.	VT-3	3	082-105
F1.10	1N27-H0021	Hydraulic Snub.	VT-3	1	082-105
F1.10	1N27-H0022	Variable Spring (WA)	VT-3	2	082-106
F1.10	1N27-H0023	Variable Spring	VT-3	2	082-105
F1.10	1N27-H0024	Variable Spring	VT-3	2	082-105
F1.10	1N27-H0025	Hydraulic Snub.	VT-3	1	082-102
F1.10	1N27-H0026	Hydraulic Snub.	VT-3	1	082-105
F1.10	1N27-H0027	Variable Spring	VT-3	3	082-105
F1.10	1N27-H0028	Variable Spring	VT-3	1	082-102
F1.10	1N27-H0029	Rigid Guide (WA)	VT-3	1	082-102
F1.10	1N27-H0030	Rigid Guide (WA)	VT-3	2	082-105
F2.10	1N27-H0031	Rigid Guide (WA)	VT-3	3	082-104
F2.10	1N27-H0032	Rigid Guide (WA)	VT-3	3	082-101
F5.10	1N27-H0033	Rigid Guide (Augmented HEPIBER)	VT-3	2	082-104
F5.10	1N27-H0034	Rigid Guide (Augmented HEPIBER)	VT-3	2	082-101
F5.10	1N27-H1078	Rigid Guide (Augmented HEPIBER)	VT-3	2	971-102
F5.10	1N27-H1127	Rigid Guide (Augmented HEPIBER)	VT-3	3	971-101
F5.10	1N27-H1129	Rigid Guide (Augmented HEPIBER)	VT-3	3	971-101
F1.10	1N27-P121-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	082-101
F1.10	1N27-P414-SP1	Rigid Guide (Inside Penetration Guard Pipe)	VT-3	NS	082-104
F3.10	1P42-A001A-SP	Surge Tank Anchor (WA)	VT-3	1	621-113
F3.10	1P42-A001B-SP	Surge Tank Anchor (WA)	VT-3	2	621-113
F3.10	1P42-B001A-SP	Heat Exchanger Anchor (WA)	VT-3	1	621-112
F3.10	1P42-B001B-SP	Heat Exchanger Anchor (WA)	VT-3	3	621-112
F3.10	1P42-C001A-SP	Pump Anchor (WA)	VT-3	2	
F3.10	1P42-C001B-SP	Pump Anchor (WA)	VT-3	3	
F3.10	1P42-H0102	Rigid Guide (WA)	VT-3	1	621-106
F3.10	1P42-H0103	Rigid Strut	VT-3	2	621-106
F3.10	1P42-H0104	Rigid Guide	VT-3	3	621-108
F3.10	1P42-H0105	Rigid Strut	VT-3	1	621-108
F3.10	1P42-H0106	Rigid Strut	VT-3	2	621-108
F3.10	1P42-H0107	Rigid Rod	VT-3	3	621-108

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P42-H0108	Rigid Strut (WA)	VT-3	3	621-108
F3.10	1P42-H0109	Rigid Rod	VT-3	1	621-108
F3.10	1P42-H0110	Rigid Rod (WA)	VT-3	2	621-106
F3.10	1P42-H0111	Rigid Guide (WA)	VT-3	3	621-106
F3.10	1P42-H0112	Variable Spring (WA)	VT-3	3	621-106
F3.10	1P42-H0113	Rigid Guide	VT-3	1	621-106
F3.10	1P42-H0114	Rigid Guide	VT-3	2	621-106
F3.10	1P42-H0115	Rigid Guide (WA)	VT-3	1	621-107
F3.10	1P42-H0116	Rigid Strut	VT-3	2	621-107
F3.10	1P42-H0117	Rigid Strut	VT-3	3	621-107
F3.10	1P42-H0118	Rigid Rod	VT-3	1	621-106
F3.10	1P42-H0119	Rigid Guide	VT-3	2	621-106
F3.10	1P42-H0120	Variable Spring (WA)	VT-3	3	621-106
F3.10	1P42-H0121	Rigid Guide	VT-3	1	621-106
F3.10	1P42-H0122	Rigid Guide (WA)	VT-3	1	621-106
F3.10	1P42-H0123	Rigid Rod (WA)	VT-3	2	621-107
F3.10	1P42-H0124	Rigid Guide	VT-3	3	621-101
F3.10	1P42-H0125	Rigid Rod	VT-3	1	621-108
F3.10	1P42-H0138	Rigid Strut	VT-3	2	621-108
F3.10	1P42-H0139	Rigid Strut	VT-3	3	621-108
F3.10	1P42-H0140	Rigid Guide	VT-3	1	621-107
F3.10	1P42-H0142	Rigid Guide	VT-3	2	621-109
F3.10	1P42-H0143	Rigid Strut	VT-3	3	621-109
F3.10	1P42-H0145	Rigid Guide	VT-3	1	621-109
F3.10	1P42-H0146	Rigid Rod	VT-3	2	621-109
F3.10	1P42-H0147	Rigid Rod	VT-3	3	621-109
F3.10	1P42-H0148	Rigid Guide (WA)	VT-3	3	621-109
F3.10	1P42-H0149	Rigid Guide	VT-3	1	621-109
F3.10	1P42-H0156	Rigid Guide	VT-3	2	621-109
F3.10	1P42-H0157	Rigid Strut	VT-3	3	621-109
F3.10	1P42-H0158	Rigid Guide	VT-3	1	621-109
F3.10	1P42-H0159	Rigid Rod	VT-3	2	621-109
F3.10	1P42-H0160	Rigid Rod	VT-3	3	621-109
F3.10	1P42-H0161	Rigid Guide (WA)	VT-3	2	621-111
F3.10	1P42-H0162	Rigid Guide (WA)	VT-3	2	621-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P42-H0163	Rigid Guide	VT-3	3	621-110
F3.10	1P42-H0164	Rigid Guide	VT-3	1	621-110
F3.10	1P42-H0171	Anchor (WA)	VT-3	2	621-107
F3.10	1P42-H0181	Rigid Rod	VT-3	3	621-109
F3.10	1P42-H0191	Anchor (WA)	VT-3	3	621-101
F3.10	1P42-H0194	Rigid Strut	VT-3	1	621-101
F3.10	1P42-H0195	Rigid Guide	VT-3	2	621-108
F3.10	1P42-H0196	Rigid Rod	VT-3	3	621-101
F3.10	1P42-H0197	Rigid Rod	VT-3	1	621-102
F3.10	1P42-H0198	Rigid Guide	VT-3	2	621-102
F3.10	1P42-H0199	Rigid Rod	VT-3	3	621-102
F3.10	1P42-H0204	Rigid Guide	VT-3	1	621-102
F3.10	1P42-H0205	Rigid Strut	VT-3	2	621-102
F3.10	1P42-H0206	Rigid Guide	VT-3	3	621-102
F3.10	1P42-H0208	Rigid Rod	VT-3	1	621-103
F3.10	1P42-H0209	Rigid Rod	VT-3	2	621-103
F3.10	1P42-H0210	Anchor (WA)	VT-3	3	621-103
F3.10	1P42-H0211	Variable Spring	VT-3	1	621-103
F3.10	1P42-H0212	Rigid Strut	VT-3	2	621-103
F3.10	1P42-H0213	Rigid Strut (WA)	VT-3	2	621-103
F3.10	1P42-H0215	Rigid Strut	VT-3	3	621-102
F3.10	1P42-H0216	Rigid Guide	VT-3	1	621-101
F3.10	1P42-H0217	Rigid Guide	VT-3	2	621-102
F3.10	1P42-H0218	Rigid Strut	VT-3	3	621-103
F3.10	1P42-H0219	Anchor (WA)	VT-3	3	621-109
F3.10	1P42-H0220	Rigid Rod	VT-3	2	621-104
F3.10	1P42-H0221	Rigid Guide (WA)	VT-3	NS**	621-104
F3.10	1P42-H0222	Rigid Guide (WA)	VT-3	NS**	621-104
F3.10	1P42-H0223	Rigid Rod	VT-3	2	621-104
F3.10	1P42-H0225	Variable Spring	VT-3	3	621-103
F3.10	1P42-H0226	Rigid Strut	VT-3	1	621-103
F3.10	1P42-H0227	Rigid Strut	VT-3	2	621-105
F3.10	1P42-H0228	Rigid Strut	VT-3	3	621-105
F3.10	1P42-H0229	Rigid Strut	VT-3	1	621-105
F3.10	1P42-H0231	Rigid Strut	VT-3	2	621-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P42-H0232	Rigid Strut	VT-3	3	621-105
F3.10	1P42-H0233	Rigid Rod	VT-3	1	621-105
F3.10	1P42-H0234	Rigid Guide (WA)	VT-3	3	621-105
F3.10	1P42-H0235	Rigid Rod	VT-3	1	621-105
F3.10	1P42-H0236	Anchor (WA)	VT-3	3	621-105
F3.10	1P42-H0237	Variable Spring	VT-3	1	621-104
F3.10	1P42-H0238	Rigid Strut	VT-3	2	621-104
F3.10	1P42-H0239	Rigid Strut (WA)	VT-3	2	621-103
F3.10	1P42-H0240	Rigid Strut (WA) (Tandem)	VT-3	2	621-103
F3.10	1P42-H0241	Rigid Strut (WA)	VT-3	3	621-104
F3.10	1P42-H0242	Rigid Strut (WA) (Tandem)	VT-3	3	621-104
F3.10	1P42-H5003	Variable Spring	VT-3	3	621-106
F3.10	1P45-C001A-SP	Anchor, Pump Support (WA)	VT-3	1	791-108
F3.10	1P45-C001B-SP	Anchor, Pump Support (WA)	VT-3	1	791-109
F3.10	1P45-C002-SP	Anchor, Pump Support (WA)	VT-3	1	791-107
F3.10	1P45-D002A-SP	Anchor, Filter Support (WA)	VT-3	1	791-108
F3.10	1P45-D002B-SP	Anchor, Filter Support (WA)	VT-3	3	791-109
F3.10	1P45-D003-SP	Anchor, Filter Support (WA)	VT-3	3	791-107
F3.10	1P45-H0001	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0002	Rigid Guide	VT-3	2	792-103
F3.10	1P45-H0003	Rigid Guide	VT-3	3	792-103
F3.10	1P45-H0004	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0005	Rigid Guide	VT-3	2	792-103
F3.10	1P45-H0006	Rigid Guide	VT-3	3	792-103
F3.10	1P45-H0007	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0008	Rigid Guide	VT-3	2	792-103
F3.10	1P45-H0009	Rigid Rod	VT-3	3	792-103
F3.10	1P45-H0010	Rigid Guide	VT-3	1	791-107
F3.10	1P45-H0011	Rigid Strut	VT-3	2	791-107
F3.10	1P45-H0012	Rigid Guide	VT-3	3	791-107
F3.10	1P45-H0018	Rigid Guide	VT-3	1	792-102
F3.10	1P45-H0020	Anchor (WA)	VT-3	2	792-103
F3.10	1P45-H0021	Anchor (WA)	VT-3	2	792-103
F3.10	1P45-H0022	Anchor (WA)	VT-3	NS**	792-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0023	Rigid Guide	VT-3	1	792-106
F3.10	1P45-H0024	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0025	Rigid Guide	VT-3	3	792-106
F3.10	1P45-H0026	Rigid Guide	VT-3	1	792-106
F3.10	1P45-H0027	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0028	Rigid Guide	VT-3	3	792-106
F3.10	1P45-H0029	Rigid Guide	VT-3	1	792-106
F3.10	1P45-H0030	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0031	Rigid Rod	VT-3	3	792-106
F3.10	1P45-H0032	Variable Spring	VT-3	1	792-105
F3.10	1P45-H0033	Anchor (WA)	VT-3	3	792-105
F3.10	1P45-H0034	Anchor (WA)	VT-3	3	792-106
F3.10	1P45-H0035	Anchor (WA)	VT-3	2	792-117
F3.10	1P45-H0036	Rigid Guide	VT-3	3	792-117
F3.10	1P45-H0037	Rigid Guide	VT-3	1	752-117
F3.10	1P45-H0038	Rigid Guide	VT-3	2	792-117
F3.10	1P45-H0039	Rigid Guide	VT-3	3	792-117
F3.10	1P45-H0040	Rigid Guide	VT-3	1	792-117
F3.10	1P45-H0041	Rigid Guide	VT-3	2	792-116
F3.10	1P45-H0042	Rigid Guide	VT-3	3	792-116
F3.10	1P45-H0043	Rigid Guide	VT-3	1	792-116
F3.10	1P45-H0044	Rigid Guide	VT-3	2	792-116
F3.10	1P45-H0045	Rigid Strut	VT-3	3	792-116
F3.10	1P45-H0046	Rigid Rod	VT-3	1	792-116
F3.10	1P45-H0047	Anchor (WA)	VT-3	3	792-116
F3.10	1P45-H0048	Anchor (WA)	VT-3	1	792-115
F3.10	1P45-H0049	Anchor (WA)	VT-3	NS**	792-112
F3.10	1P45-H0050	Rigid Guide	VT-3	3	792-112
F3.10	1P45-H0051	Rigid Guide	VT-3	1	792-112
F3.10	1P45-H0052	Rigid Guide	VT-3	2	792-112
F3.10	1P45-H0053	Rigid Guide	VT-3	3	792-112
F3.10	1P45-H0054	Rigid Guide	VT-3	1	792-112
F3.10	1P45-H0055	Rigid Guide	VT-3	2	792-112
F3.10	1P45-H0056	Rigid Guide	VT-3	3	792-112
F3.10	1P45-H0057	Rigid Guide	VT-3	1	792-112

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Inservice Examination Interval Listing (Cont.)

<u>ITEM</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM</u>	<u>PERIOD</u>	<u>ISI ISO</u>
<u>F3.</u>			<u>METHOD</u>	<u>SCHED.</u>	<u>55-305</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0058	Rigid Guide	VT-3	2	792-112
F3.10	1P45-H0059	Rod	VT-3	3	792-112
F3.10	1P45-H0060	Anchor (WA)	VT-3	3	792-112
F3.10	1P45-H0061	Rigid Guide	VT-3	1	792-112
F3.10	1P45-H0062	Rigid Guide	VT-3	2	792-112
F3.10	1P45-H0063	Rigid Guide	VT-3	3	792-112
F3.10	1P45-H0064	Rigid Guide	VT-3	1	792-112
F3.10	1P45-H0065	Rigid Guide	VT-3	2	792-112
F3.10	1P45-H0066	Rigid Guide	VT-3	3	792-112
F3.10	1P45-H0067	Rigid Guide	VT-3	1	792-112
F3.10	1P45-H0068	Rigid Strut	VT-3	2	792-112
F3.10	1P45-H0069	Mechanical Snub.	VT-3	3	792-112
F3.10	1P45-H0070	Anchor (WA)	VT-3	1	792-112
F3.10	1P45-H0071	Variable Spring (WA)	VT-3	1	792-113
F3.10	1P45-H0072	Rigid Strut	VT-3	2	792-113
F3.10	1P45-H0073	Rigid Strut	VT-3	3	792-113
F3.10	1P45-H0074	Rigid Strut	VT-3	1	792-113
F3.10	1P45-H0075	Variable Spring	VT-3	2	792-113
F3.10	1P45-H0076	Rigid Strut	VT-3	3	792-113
F3.10	1P45-H0077	Anchor (WA)	VT-3	3	792-113
F3.10	1P45-H0078	Rigid Guide	VT-3	1	792-117
F3.10	1P45-H0079	Rigid Guide	VT-3	2	792-117
F3.10	1P45-H0080	Rigid Guide	VT-3	3	792-117
F3.10	1P45-H0081	Rigid Guide	VT-3	1	792-117
F3.10	1P45-H0082	Rigid Guide	VT-3	2	792-117
F3.10	1P45-H0083	Rigid Guide	VT-3	3	792-117
F3.10	1P45-H0084	Rigid Guide	VT-3	1	792-117
F3.10	1P45-H0085	Rigid Rod	VT-3	2	792-117
F3.10	1P45-H0086	Rigid Guide	VT-3	3	792-117
F3.10	1P45-H0087	Rigid Guide	VT-3	1	792-117
F3.10	1P45-H0088	Rigid Guide	VT-3	2	792-117
F3.10	1P45-H0089	Anchor (WA)	VT-3	3	792-118
F3.10	1P45-H0090	Rigid Guide	VT-3	1	791-111
F3.10	1P45-H0091	Rigid Guide	VT-3	2	791-111
F3.10	1P45-H0092	Rigid Guide	VT-3	3	791-111

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0093	Rigid Guide	VT-3	1	791-111
F3.10	1P45-H0094	Rigid Guide	VT-3	2	791-111
F3.10	1P45-H0095	Rigid Guide	VT-3	3	791-111
F3.10	1P45-H0096	Rigid Guide	VT-3	1	791-111
F3.10	1P45-H0097	Mechanical Snub. (WA)	VT-3	2	791-111
F3.10	1P45-H0098	Variable Spring	VT-3	3	791-111
F3.10	1P45-H0099	Rigid Strut	VT-3	2	791-111
F3.10	1P45-H0100	Anchor (WA)	VT-3	3	791-111
F3.10	1P45-H0101	Rigid Strut	VT-3	1	792-118
F3.10	1P45-H0102	Rigid Strut	VT-3	2	792-118
F3.10	1P45-H0103	Variable Spring	VT-3	3	792-118
F3.10	1P45-H0104	Mechanical Snub. (Tandem)	VT-3	1	792-118
F3.10	1P45-H0105	Rigid Guide	VT-3	2	792-107
F3.10	1P45-H0106	Rigid Guide	VT-3	3	792-107
F3.10	1P45-H0107	Rigid Guide	VT-3	1	792-107
F3.10	1P45-H0108	Rigid Guide	VT-3	2	792-107
F3.10	1P45-H0109	Rigid Guide	VT-3	3	792-107
F3.10	1P45-H0110	Rigid Guide	VT-3	1	792-107
F3.10	1P45-H0111	Rigid Guide	VT-3	2	792-107
F3.10	1P45-H0112	Rigid Strut	VT-3	3	792-107
F3.10	1P45-H0113	Rigid Guide	VT-3	1	792-107
F3.10	1P45-H0114	Rigid Guide	VT-3	2	792-107
F3.10	1P45-H0115	Rigid Guide	VT-3	3	792-107
F3.10	1P45-H0116	Rigid Guide	VT-3	1	792-107
F3.10	1P45-H0117	Rigid Guide	VT-3	2	792-107
F3.10	1P45-H0118	Rigid Guide	VT-3	3	792-107
F3.10	1P45-H0119	Rigid Guide	VT	1	792-107
F3.10	1P45-H0120	Rigid Guide	VT	2	792-107
F3.10	1P45-H0121	Rigid Guide	VT	3	792-107
F3.10	1P45-H0122	Rigid Guide	VT-3	1	792-107
F3.10	1P45-H0123	Anchor (WA)	VT-3	5	792-108
F3.10	1P45-H0124	Rigid Strut (WA) (Tandem)	VT-3	3	792-107
F3.10	1P45-H0125	Variable Spring	VT-3	1	792-107
F3.10	1P45-H0126	Mechanical Snub.	VT-3	2	792-107
F3.10	1P45-H0127	Anchor (WA)	VT-3	NS**	792-107

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0128	Anchor (WA)	VT-3	2	792-107
F3.10	1P45-H0129	Rigid Strut	VT-3	3	792-108
F3.10	1P45-H0130	Rigid Strut (Tandem)	VT-3	1	792-103
F3.10	1P45-H0131	Variable Spring	VT-3	2	792-106
F3.10	1P45-H0132	Mechanical Snub. (Tandem)	VT-3	3	792-108
F3.10	1P45-H0133	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0134	Rigid Support	VT-3	2	792-103
F3.10	1P45-H0135	Rigid Guide	VT-3	3	792-103
F3.10	1P45-H0136	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0137	Rigid Guide	VT-3	2	792-103
F3.10	1P45-H0138	Rigid Guide	VT-3	3	792-103
F3.10	1P45-H0139	Rigid Guide	VT-3	1	792-103
F3.10	1P45-H0140	Variable Spring	VT-3	2	792-103
F3.10	1P45-H0141	Rigid Strut	VT-3	3	792-103
F3.10	1P45-H0142	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0143	Rigid Guide	VT-3	2	792-104
F3.10	1P45-H0144	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0145	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0146	Rigid Guide	VT-3	2	792-104
F3.10	1P45-H0147	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0148	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0149	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0150	Rigid Guide	VT-3	2	792-104
F3.10	1P45-H0151	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0152	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0153	Rigid Guide	VT-3	2	792-104
F3.10	1P45-H0154	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0155	Rigid Guide	VT-3	1	792-104
F3.10	1P45-H0156	Variable Spring	VT-3	2	792-104
F3.10	1P45-H0157	Rigid Strut	VT-3	3	792-104
F3.10	1P45-H0158	Rigid Strut	VT-3	1	792-104
F3.10	1P45-H0159	Anchor (WA)	VT-3	3	792-104
F3.10	1P45-H0160	Rigid Strut	VT-3	1	792-104
F3.10	1P45-H0161	Rigid Strut	VT-3	2	792-104
F3.10	1P45-H0162	Rigid Guide	VT-3	NS**	792-104

Service Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0163	Rigid Strut	VT-3	1	792-104
F3.10	1P45-H0164	Variable Spring	VT-3	2	792-104
F3.10	1P45-H0165	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0166	Rigid Strut (Tandem)	VT-3	1	792-104
F3.10	1P45-H0167	Variable Spring	VT-3	2	792-104
F3.10	1P45-H0168	Rigid Strut (Tandem)		1	792-104
F3.10	1P45-H0169	Rigid Strut (VA)	VT-3	3	792-104
F3.10	1P45-H0170	Rigid Rod (VA)	VT-3	2	791-106
F3.10	1P45-H0171	Variable Spring	VT-3	2	791-106
F3.10	1P45-H0172	Anchor (VA)	VT-3	1	791-106
F3.10	1P45-H0173	Rigid Strut	VT-3	2	791-106
F3.10	1P45-H0175	Variable Spring (VA)	VT-3	3	791-106
F3.10	1P45-H0176	Mechanical Snub. (Tandem)	VT-3	1	791-106
F3.10	1P45-H0177	Mechanical Snub. (Tandem)	VT-3	2	791-106
F3.10	1P45-H0178	Variable Spring	VT-3	3	791-106
F3.10	1P45-H0179	Mechanical Snub.	VT-3	1	791-106
F3.10	1P45-H0180	Variable Spring	VT-3	2	791-106
F3.10	1P45-H0181	Rigid Strut	VT-3	3	791-106
F3.10	1P45-H0182	Rigid Strut	VT-3	1	791-106
F3.10	1P45-H0183	Mechanical Snub. (VA)	VT-3	1	791-106
F3.10	1P45-H0184	Rigid Rod	VT-3	2	791-106
F3.10	1P45-H0185	Mechanical Snub. (Tandem)	VT-3	3	791-106
F3.10	1P45-H0186	Mechanical Snub. (VA)	VT-3	2	791-106
F3.10	1P45-H0187	Rigid Rod	VT-3	3	791-106
F3.10	1P45-H0188	Rigid Rod	VT-3	1	791-106
F3.10	1P45-H0189	Anchor (VA)	VT-3	3	791-106
F3.10	1P45-H0190	Rigid Strut	VT-3	1	791-113
F3.10	1P45-H0191	Rigid Guide (VA)	VT-3	NS**	791-113
F3.10	1P45-H0192	Mechanical Snub.	VT-3	3	791-113
F3.10	1P45-H0193	Rigid Strut	VT-3	1	791-113
F3.10	1P45-H0194	Rigid Strut	VT-3	2	791-113
F3.10	1P45-H0195	Rigid Strut	VT-3	3	791-113
F3.10	1P45-H0196	Rigid Strut	VT-3	1	791-113
F3.10	1P45-H0197	Rigid Strut	VT-3	2	791-113
F3.10	1P45-H0198	Rigid Strut	VT-3	3	791-113

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0199	Rigid Guide	VT-3	1	791-113
F3.10	1P45-H0200	Rigid Guide	VT-3	2	791-113
F3.10	1P45-H0201	Rigid Rod	VT-3	3	791-113
F3.10	1P45-H0202	Rigid Guide	VT-3	1	791-113
F3.10	1P45-H0203	Rigid Rod	VT-3	2	791-113
F3.10	1P45-H0204	Rigid Rod	VT-3	3	791-113
F3.10	1P45-H0205	Rigid Guide	VT-3	1	791-113
F3.10	1P45-H0210	Anchor (WA)	VT-3	3	791-113
F3.10	1P45-H0211	Variable Spring	VT-3	1	791-111
F3.10	1P45-H0212	Mechanical Snub. (WA)	VT-3	1	791-112
F3.10	1P45-H0213	Rigid Strut	VT-3	1	791-111
F3.10	1P45-H0215	Rigid Strut (WA)	VT-3	2	791-112
F3.10	1P45-H0216	Mechanical Snub. (WA)	VT-3	3	791-112
F3.10	1P45-H0217	Rigid Rod	VT-3	1	791-112
F3.10	1P45-H0218	Rigid Guide	VT-3	2	791-112
F3.10	1P45-H0219	Rigid Rod	VT-3	3	791-112
F3.10	1P45-H0220	Rigid Rod	VT-3	1	791-112
F3.10	1P45-H0221	Rigid Guide	VT-3	2	791-112
F3.10	1P45-H0222	Mechanical Snub. (WA)	VT-3	2	791-112
F3.10	1P45-H0223	Rigid Rod	VT-3	3	791-112
F3.10	1P45-H0224	Rigid Rod	VT-3	1	791-112
F3.10	1P45-H0225	Rigid Guide	VT-3	2	791-112
F3.10	1P45-H0226	Rigid Strut (WA)	VT-3	1	791-112
F3.10	1P45-H0227	Rigid Rod	VT-3	2	791-112
F3.10	1P45-H0228	Rigid Rod	VT-3	3	791-112
F3.10	1P45-H0229	Anchor (WA)	VT-3	2	791-112
F3.10	1P45-H0230	Rigid Strut	VT-3	3	791-106
F3.10	1P45-H0231	Rigid Strut	VT-3	1	791-106
F3.10	1P45-H0232	Anchor (WA)	VT-3	1	791-103
F3.10	1P45-H0233	Rigid Rod	VT-3	2	791-103
F3.10	1P45-H0235	Rigid Rod	VT-3	3	791-103
F3.10	1P45-H0236	Rigid Guide	VT-3	1	791-103
F3.10	1P45-H0237	Rigid Rod	VT-3	2	791-103
F3.10	1P45-H0239	Rigid Rod	VT-3	3	791-103
F3.10	1P45-H0240	Rigid Strut	VT-3	2	791-103

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0241	Rigid Rod	VT-3	2	791-103
F3.10	1P45-H0242	Rigid Rod	VT-3	3	791-103
F3.10	1P45-H0243	Anchor (WA)	VT-3	2	791-102
F3.10	1P45-H0244	Rigid Rod	VT-3	1	791-103
F3.10	1P45-H0245	Rigid Strut	VT-3	2	791-103
F3.10	1P45-H0246	Rigid Rod	VT-3	3	791-103
F3.10	1P45-H0247	Rigid Guide	VT-3	1	791-103
F3.10	1P45-H0248	Rigid Rod	VT-3	2	791-103
F3.10	1P45-H0249	Rigid Guide	VT-3	3	791-103
F3.10	1P45-H0250	Rigid Rod	VT-3	1	791-103
F3.10	1P45-H0251	Rigid Guide	VT-3	2	791-103
F3.10	1P45-H0252	Rigid Strut	VT-3	3	791-103
F3.10	1P45-H0253	Rigid Guide	VT-3	1	791-103
F3.10	1P45-H0254	Rigid Strut	VT-3	2	791-103
F3.10	1P45-H0255	Rigid Guide	VT-3	3	791-103
F3.10	1P45-H0256	Rigid Strut (WA)	VT-3	2	791-103
F3.10	1P45-H0257	Rigid Guide	VT-3	1	791-104
F3.10	1P45-H0258	Rigid Guide	VT-3	2	791-104
F3.10	1P45-H0259	Rigid Guide	VT-3	3	791-104
F3.10	1P45-H0260	Rigid Guide	VT-3	1	791-104
F3.10	1P45-H0261	Rigid Guide	VT-3	2	791-104
F3.10	1P45-H0262	Rigid Guide	VT-3	3	791-104
F3.10	1P45-H0263	Rigid Guide	VT-3	1	791-104
F3.10	1P45-H0264	Rigid Guide	VT-3	2	791-104
F3.10	1P45-H0265	Rigid Guide	VT-3	3	791-104
F3.10	1P45-H0266	Rigid Guide	VT-3	1	791-104
F3.10	1P45-H0267	Rigid Guide	VT-3	2	791-104
F3.10	1P45-H0268	Rigid Guide	VT-3	3	792-104
F3.10	1P45-H0269	Rigid Guide	VT-3	1	791-104
F3.10	1P45-H0270	Hydraulic Snub.	VT-3	2	791-104
F3.10	1P45-H0271	Rigid Guide (WA)	VT-3	NS**	791-104
F3.10	1P45-H0272	Variable Spring (WA)	VT-3	3	791-104
F3.10	1P45-H0273	Rigid Strut (WA) (Tandem)	VT-3	3	791-104
F3.10	1P45-H0274	Rigid Guide (WA)	VT-3	3	791-105
F3.10	1P45-H0277	Variable Spring (WA)	VT-3	1	791-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI 150 SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0279	Rigid Strut	VT-3	2	791-105
F3.10	1P45-H0280	Rigid Strut	VT-3	3	791-105
F3.10	1P45-H0281	Rigid Strut	VT-3	1	791-105
F3.10	1P45-H0282	Rigid Strut	VT-3	2	791-105
F3.10	1P45-H0283	Rigid Strut	VT-3	3	791-105
F3.10	1P45-H0284	Rigid Strut	VT-3	1	791-105
F3.10	1P45-H0285	Rigid Strut	VT-3	2	791-105
F3.10	1P45-H0286	Rigid Strut	VT-3	3	791-105
F3.10	1P45-H0287	Anchor (WA)	VT-3	2	791-105
F3.10	1P45-H0288	Rigid Strut	VT-3	3	791-106
F3.10	1P45-H0292	Mechanical Snubber	VT-3	1	792-104
F3.10	1P45-H0293	Anchor (WA)	VT-3	3	792-109
F3.10	1P45-H0294	Rigid Rod (WA)	VT-3	2	792-109
F3.10	1P45-H0295	Rigid Guide	VT-3	3	792-109
F3.10	1P45-H0296	Rigid Guide	VT-3	1	792-109
F3.10	1P45-H0297	Rigid Guide (WA)	VT-3	2	792-109
F3.10	1P45-H0298	Rigid Guide (WA)	VT-3	1	792-109
F3.10	1P45-H0300	Rigid Strut	VT-3	2	792-109
F3.10	1P45-H0301	Rigid Guide	VT-3	3	792-106
F3.10	1P45-H0302	Rigid Guide	VT-3	1	792-106
F3.10	1P45-H0303	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0304	Rigid Guide	VT-3	3	792-106
F3.10	1P45-H0305	Rigid Guide	VT-3	1	792-106
F3.10	1P45-H0306	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0307	Rigid Guide	VT-3	3	792-106
F3.10	1P45-H0308	Anchor (WA)	VT-3	2	792-114
F3.10	1P45-H0309	Rigid Rod (WA)	VT-3	3	792-115
F3.10	1P45-H0310	Rigid Guide	VT-3	1	792-115
F3.10	1P45-H0311	Rigid Guide	VT-3	2	792-115
F3.10	1P45-H0312	Rigid Guide (WA)	VT-3	1	792-115
F3.10	1P45-H0313	Rigid Guide (WA)	VT-3	1	792-115
F3.10	1P45-H0345	Rigid Guide	VT-3	2	792-115
F3.10	1P45-H0346	Rigid Guide	VT-3	3	792-115
F3.10	1P45-H0347	Rigid Guide	VT-3	1	792-115
F3.10	1P45-H0348	Rigid Guide	VT-3	2	792-115

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0349	Rigid Guide	VT-3	3	792-115
F3.10	1P45-H0350	Rigid Guide	VT-3	1	792-115
F3.10	1P45-H0351	Rigid Guide	VT-3	2	792-115
F3.10	1P45-H0352	Rigid Guide	VT-3	3	792-115
F3.10	1P45-H0353	Mechanical Snub. (WA) (Tandem)	VT-3	2	792-104
F3.10	1P45-H0354	Rigid Guide	VT-3	3	792-103
F3.10	1P45-H0357	Rigid Strut (WA)	VT-3	3	792-103
F3.10	1P45-H0358	Rigid Guide	VT-3	1	792-116
F3.10	1P45-H0359	Rigid Guide	VT-3	2	792-116
F3.10	1P45-H0360	Rigid Guide	VT-3	3	792-116
F3.10	1P45-H0362	Rigid Guide	VT-3	1	792-110
F3.10	1P45-H0363	Rigid Guide	VT-3	2	792-110
F3.10	1P45-H0364	Rigid Guide	VT-3	3	792-110
F3.10	1P45-H0365	Rigid Guide (WA)	VT-3	2	792-110
F3.10	1P45-H0366	Rigid Guide	VT-3	3	792-110
F3.10	1P45-H0367	Rigid Guide	VT-3	1	792-110
F3.10	1P45-H0368	Rigid Guide	VT-3	2	792-110
F3.10	1P45-H0369	Rigid Strut (WA)	VT-3	1	792-110
F3.10	1P45-H0370	Rigid Guide	VT-3	2	792-102
F3.10	1P45-H0371	Rigid Guide	VT-3	3	792-110
F3.10	1P45-H0372	Rigid Guide	VT-3	1	792-110
F3.10	1P45-H0373	Rigid Guide	VT-3	2	792-111
F3.10	1P45-H0374	Rigid Guide (WA)	VT-3	3	792-111
F3.10	1P45-H0376	Rigid Guide	VT-3	1	792-105
F3.10	1P45-H0380	Rigid Guide	VT-3	2	792-102
F3.10	1P45-H0381	Rigid Guide	VT-3	3	792-102
F3.10	1P45-H0382	Rigid Strut (WA)	VT-3	2	792-102
F3.10	1P45-H0383	Rigid Guide (WA)	VT-3	2	792-110
F3.10	1P45-H0384	Rigid Guide	VT-3	3	792-102
F3.10	1P45-H0385	Rigid Strut	VT-3	1	792-102
F3.10	1P45-H0386	Rigid Guide (WA)	VT-3	3	792-102
F3.10	1P45-H0387	Rigid Strut	VT-3	1	792-102
F3.10	1P45-H0388	Anchor (WA)	VT-3	1	792-101
F3.10	1P45-H0389	Anchor (WA)	VT-3	2	792-111
F3.10	1P45-H0390	Rigid Guide	VT-3	3	792-105

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>FORM No. AOB</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0391	Rigid Guide	VT-3	1	792-105
F3.10	1.45-H0392	Rigid Guide	VT-3	2	792-105
F3.10	1P45-H0393	Rigid Guide	VT-3	3	792-105
F3.10	1P45-H0395	Rigid Strut (WA)	VT-3	2	791-105
F3.10	1P45-H0396	Rigid Strut	VT-3	3	791-105
F4.10	1P45-H0397	Rigid Guide	VT-3	NS**	791-108
F4.10	1P45-H0398	Rigid Guide	VT-3	NS**	791-108
F4.10	1P45-H0399	Rigid Guide	VT-3	NS**	791-109
F4.10	1P45-H0400	Rigid Guide	VT-3	NS**	791-109
F3.10	1P45-H0401	Rigid Guide	VT-3	2	791-107
F3.10	1P45-H0402	Rigid Guide	VT-3	3	791-107
F3.10	1P45-H0403	Rigid Strut	VT-3	1	791-105
F3.10	1P45-H0404	Rigid Guide	VT-3	2	791-101
F3.10	1P45-H0405	Rigid Strut	VT-3	3	791-101
F3.10	1P45-H0406	Rigid Guide	VT-3	1	791-101
F3.10	1P45-H0407	Rigid Strut	VT-3	2	791-101
F3.10	1P45-H0408	Rigid Guide	VT-3	3	791-101
F3.10	1P45-H0409	Rigid Strut	VT-3	1	791-101
F3.10	1P45-H0410	Rigid Guide	VT-3	2	791-101
F3.10	1P45-H0411	Rigid Strut	VT-3	3	791-101
F3.10	1P45-H0412	Rigid Guide	VT-3	1	791-101
F3.10	1P45-H0413	Rigid Strut (WA)	VT-3	2	791-101
F3.10	1P45-H0414	Rigid Strut	VT-3	3	791-101
F3.10	1P45-H0415	Rigid Strut	VT-3	1	791-101
F3.10	1P45-H0416	Rigid Strut	VT-3	2	791-101
F3.10	1P45-H0417	Rigid Guide (WA)	VT-3	NS**	791-101
F3.10	1P45-H0418	Rigid Strut	VT-3	2	791-102
F3.10	1P45-H0419	Rigid Strut	VT-3	3	791-102
F3.10	1P45-H0420	Rigid Guide	VT-3	1	791-102
F3.10	1P45-H0421	Rigid Guide	VT-3	2	791-102
F3.10	1P45-H0422	Mechanical Snub. (WA)	VT-3	1	791-102
F3.10	1P45-H0423	Rigid Guide	VT-3	1	791-102
F3.10	1P45-H0424	Rigid Guide	VT-3	2	791-102
F3.10	1P45-H0425	Rigid Guide	VT-3	3	791-102
F3.10	1P45-H0426	Rigid Guide	VT-3	1	791-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0427	Rigid Strut	VT-3	2	791-102
F3.10	1P45-H0428	Rigid Guide (WA)	VT-3	3	791-102
F3.10	1P45-H0430	Rigid Guide	VT-3	NS**	791-102
F3.10	1P45-H0431	Rigid Rod (WA)	VT-3	1	791-102
F3.10	1P45-H0434	Rigid Guide	VT-3	2	792-114
F3.10	1P45-H0435	Rigid Guide	VT-3	3	792-111
F3.10	1P45-H0437	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0438	Rigid Strut	VT-3	2	791-102
F3.10	1P45-H0439	Rigid Strut	VT-3	3	791-102
F3.10	1P45-H0440	Mechanical Snub.	VT-3	1	791-102
F3.10	1P45-H0441	Mechanical Snub.	VT-3	2	791-102
F3.10	1P45-H0444	Mechanical Snub.	VT-3	3	791-102
F3.10	1P45-H0445	Mechanical Snub.	VT-3	1	791-102
F3.10	1P45-H0446	Rigid Guide	VT-3	2	792-114
F3.10	1P45-H0447	Rigid Guide	VT-3	3	792-111
F3.10	1P45-H0448	Rigid Strut	VT-3	1	792-114
F3.10	1P45-H0449	Rigid Strut	VT-3	2	792-111
F3.10	1P45-H0501	Rigid Strut	VT-3	3	792-114
F3.10	1P45-H0502	Mechanical Snub.	VT-3	1	792-111
F3.10	1P45-H0503	Rigid Strut	VT-3	2	792-111
F3.10	1P45-H0504	Rigid Guide	VT-3	3	792-114
F3.10	1P45-H0505	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0506	Rigid Guide	VT-3	2	792-114
F3.10	1P45-H0507	Rigid Guide	VT-3	3	792-114
F3.10	1P45-H0508	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0509	Mechanical Snub. (WA)	VT-3	2	792-111
F3.10	1P45-H0510	Mechanical Snub. (WA)	VT-3	2	792-114
F3.10	1P45-H0511	Rigid Strut (WA)	VT-3	3	792-114
F3.10	1P45-H0512	Mechanical Snub. (WA)	VT-3	3	792-111
F3.10	1P45-H0513	Rigid Guide	VT-3	1	792-114
F3.10	1P45-H0514	Rigid Guide	VT-3	2	792-111
F3.10	1P45-H0515	Rigid Strut (WA)	VT-3	1	792-114
F3.10	1P45-H0516	Mechanical Snub. (WA)	VT-3	2	792-111
F3.10	1P45-H0517	Rigid Guide	VT-3	3	792-101
F3.10	1P45-H0518	Rigid Guide	VT-3	1	792-109

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0519	Rigid Guide	VT-3	2	792-101
F3.10	1P45-H0520	Rigid Guide	VT-3	3	792-109
F3.10	1P45-H0521	Mechanical Snub. (WA)	VT-3	1	792-101
F3.10	1P45-H0522	Rigid Guide	VT-3	2	792-109
F3.10	1P45-H0523	Rigid Guide	VT-3	3	792-101
F3.10	1P45-H0524	Rigid Strut	VT-3	1	792-109
F3.10	1P45-H0525	Mechanical Snub. (Tandem)	VT-3	2	792-101
F3.10	1P45-H0526	Mechanical Snub. (WA)	VT-3	3	792-101
F3.10	1P45-H0527	Rigid Strut	VT-3	1	792-101
F3.10	1P45-H0528	Rigid Strut	VT-3	2	792-101
F3.10	1P45-H0529	Rigid Strut	VT-3	3	792-101
F3.10	1P45-H0530	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0531	Rigid Guide	VT-3	2	792-111
F3.10	1P45-H0532	Rigid Guide	VT-3	3	792-111
F3.10	1P45-H0547	Rigid Strut	VT-3	1	792-111
F3.10	1P45-H0548	Rigid Guide	VT-3	2	792-111
F3.10	1P45-H0549	Rigid Strut	VT-3	3	792-111
F3.10	1P45-H0550	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0551	Rigid Strut	VT-3	2	792-111
F3.10	1P45-H0552	Rigid Guide	VT-3	3	792-111
F3.10	1P45-H0603	Rigid Guide	VT-3	1	791-113
F3.10	1P45-H0604	Rigid Guide	VT-3	2	791-113
F3.10	1P45-H0605	Rigid Guide	VT-3	3	791-113
F3.10	1P45-H0606	Rigid Guide	VT-3	1	791-113
F3.10	1P45-H0607	Rigid Guide	VT-3	2	791-113
F3.10	1P45-H0608	Rigid Guide	VT-3	3	791-113
F2.10	1P45-H0609	Variable Spring	VT-3	2	792-113
F2.10	1P45-H0610	Mechanical Snub. (Tandem)	VT-3	2	792-113
F2.10	1P45-H0611	Mechanical Snub. (WA)	VT-3	1	792-113
F3.10	1P45-H0612	Rigid Strut	VT-3	2	792-113
F3.10	1P45-H0613	Rigid Strut	VT-3	3	792-113
F3.10	1P45-H0614	Rigid Strut	VT-3	1	792-113
F3.10	1P45-H0615	Rigid Guide	VT-3	2	792-113
F3.10	1P45-H0616	Rigid Strut	VT-3	3	792-113
F3.10	1P45-H0617	Mechanical Snub. (Tandem)	VT-3	1	792-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0618	Rigid Strut	VT-3	2	792-113
F3.10	1P45-H0619	Rigid Strut	VT-3	3	792-114
F3.10	1P45-H0620	Rigid Guide	VT-3	1	792-111
F3.10	1P45-H0621	Rigid Guide	VT-3	2	792-101
F3.10	1P45-H0622	Rigid Strut	VT-3	3	792-109
F3.10	1P45-H0623	Rigid Strut	VT-3	1	791-101
F3.10	1P45-H0625	Anchor (WA)	VT-3	2	791-101
F3.10	1P45-H0626	Variable Spring	VT-3	3	791-108
F3.10	1P45-H0627	Variable Spring	VT-3	1	791-109
F3.10	1P45-H0643	Rigid Guide (WA)	VT-3	NS**	791-110
F3.10	1P45-H0644	Rigid Strut	VT-3	2	791-110
F3.10	1P45-H0645	Rigid Strut	VT-3	3	791-110
F3.10	1P45-H0646	Rigid Guide	VT-3	1	791-110
F3.10	1P45-H0647	Rigid Strut	VT-3	2	791-110
F3.10	1P45-H0648	Rigid Guide (WA)	VT-3	3	791-110
F3.10	1P45-H0649	Rigid Guide (WA)	VT-3	2	791-110
F3.10	1P45-H0650	Rigid Strut	VT-3	2	791-113
F3.10	1P45-H0651	Rigid Strut	VT-3	3	791-113
F3.10	1P45-H0652	Rigid Guide	VT-3	1	791-110
F3.10	1P45-H0653	Rigid Guide	VT-3	2	791-110
F3.10	1P45-H0654	Rigid Guide (WA)	VT-3	3	791-110
F3.10	1P45-H0655	Rigid Guide	VT-3	1	791-110
F3.10	1P45-H0656	Rigid Guide (WA)	VT-3	3	791-110
F3.10	1P45-H0657	Rigid Guide	VT-3	1	791-110
F3.10	1P45-H0658	Rigid Strut	VT-3	2	791-110
F3.10	1P45-H0659	Rigid Guide (WA)	VT-3	2	791-110
F3.10	1P45-H0680	Rigid Strut	VT-3	3	792-115
F3.10	1P45-H0681	Rigid Strut	VT-3	1	792-115
F3.10	1P45-H0682	Rigid Strut	VT-3	2	792-113
F3.10	1P45-H0683	Rigid Rod	VT-3	3	792-105
F3.10	1P45-H0684	Mechanical Snub.	VT-3	1	792-109
F3.10	1P45-H0685	Rigid Guide	VT-3	2	792-106
F3.10	1P45-H0686	Rigid Strut	VT-3	3	791-111
F3.10	1P45-H0687	Rigid Strut	VT-3	1	792-113
F3.10	1P45-H0689	Rigid Strut	VT-3	2	791-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P45-H0692	Rigid Strut	VT-3	3	791-102
F3.10	1P45-H1226	Rigid Guide (WA) For Small Bore Pipe	VT-3	2	792-108
F3.10	1P45-H1278	Rigid Guide (WA) For Small Bore Pipe	VT-3	2	792-118
F3.10	1P45-H5000	Rigid Guide (WA)	VT-3	1	791-105
F3.10	1P45-H5001	Rigid Guide	VT-3	2	791-105
F3.10	1P45-H5002	Rigid Strut (WA)	VT-3	2	791-106
F3.10	1P45-H5003	Rigid Strut (WA)	VT-3	3	791-112
F3.10	1P45-H5004	Rigid Guide	VT-3	1	791-106
F3.10	1P45-H5005	Rigid Guide	VT-3	2	791-112
F3.10	1P45-H5007	Rigid Strut	VT-3	3	791-112
F3.10	1P45-H5008	Rigid Strut	VT-3	1	791-106
F3.10	1P47-A002A-SP	Anchor, Expan. Tk. (WA)	VT-3	2	002-115
F3.10	1P47-A002B-SP	Anchor, Expan. Tk. (WA)	VT-3	3	002-115
F3.10	1P47-B001A-SP	Anchor, Chiller (WA)	VT-3	1	002-116
F3.10	1P47-B001B-SP	Anchor, Chiller (WA)	VT-3	1	002-116
F3.10	1P47-B001C-SP	Anchor, Chiller (WA)	VT-3	2	002-116
F3.10	1P47-C001A-SP	Anchor, Pump (WA)	VT-3	2	002-117
F3.10	1P47-C001B-SP	Anchor, Pump (WA)	VT-3	3	002-117
F3.10	1P47-C001C-SP	Anchor, Pump (WA)	VT-3	3	002-117
F3.10	1P47-H0001	Rigid Guide (WA)	VT-3	1	002-101
F3.10	1P47-H0002	Rigid Guide (WA)	VT-3	1	002-101
F3.10	1P47-H0003	Rigid Rod	VT-3	2	002-101
F3.10	1P47-H0006	Rigid Strut	VT-3	3	002-101
F3.10	1P47-H0007	Rigid Strut	VT-3	1	002-101
F3.10	1P47-H0008	Rigid Strut	VT-3	2	002-101
F3.10	1P47-H0009	Rigid Strut	VT-3	3	002-101
F3.10	1P47-H0010	Rigid Strut	VT-3	1	002-101
F3.10	1P47-H0011	Rigid Strut	VT-3	2	002-101
F3.10	1P47-H0012	Rigid Rod	VT-3	3	002-102
F3.10	1P47-H0013	Rigid Strut	VT-3	1	002-102
F3.10	1P47-H0014	Rigid Guide (WA)	VT-3	3	002-101
F3.10	1P47-H0015	Rigid Guide (WA)	VT-3	3	002-101
F3.10	1P47-H0016	Rigid Guide (WA)	VT-3	3	002-102
F3.10	1P47-H0018	Rigid Strut	VT-3	1	002-102

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P47-H0019	Rigid Strut (WA)	VT-3	1	002-102
F3.10	1P47-H0020	Rigid Rod	VT-3	2	002-101
F3.10	1P47-H0021	Rigid Guide (WA)	VT-3	2	002-107
F3.10	1P47-H0022	Rigid Strut	VT-3	3	002-107
F3.10	1P47-H0023	Rigid Strut	VT-3	1	002-107
F3.10	1P47-H0024	Rigid Guide	VT-3	2	002-107
F3.10	1P47-H0027	Rigid Strut	VT-3	3	002-107
F3.10	1P47-H0028	Rigid Strut	VT-3	1	002-107
F3.10	1P47-H0029	Rigid Guide (WA)	VT-3	2	002-108
F3.10	1P47-H0030	Rigid Guide (WA)	VT-3	2	002-109
F3.10	1P47-H0031	Rigid Guide (WA)	VT-3	3	002-105
F3.10	1P47-H0032	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0033	Rigid Strut	VT-3	2	002-103
F3.10	1P47-H0034	Rigid Strut (WA)	VT-3	1	002-103
F3.10	1P47-H0035	Rigid Strut	VT-3	3	002-103
F3.10	1P47-H0036	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0037	Rigid Rod	VT-3	2	002-103
F3.10	1P47-H0038	Rigid Guide	VT-3	3	002-103
F3.10	1P47-H0039	Rigid Guide	VT-3	1	002-107
F3.10	1P47-H0041	Rigid Strut	VT-3	2	002-103
F3.10	1P47-H0042	Rigid Strut	VT-3	3	002-103
F3.10	1P47-H0043	Rigid Strut (WA)	VT-3	2	002-103
F3.10	1P47-H0044	Rigid Strut	VT-3	2	002-107
F3.10	1P47-H0045	Rigid Strut	VT-3	3	002-107
F3.10	1P47-H0046	Rigid Strut (WA)	VT-3	3	002-107
F3.10	1P47-H0048	Rigid Strut	VT-3	1	002-107
F3.10	1P47-H0049	Rigid Strut	VT-3	2	002-107
F3.10	1P47-H0050	Rigid Strut	VT-3	3	002-107
F3.10	1P47-H0051	Rigid Strut	VT-3	1	002-107
F3.10	1P47-H0052	Rigid Strut	VT-3	2	002-101
F3.10	1P47-H0053	Rigid Strut	VT-3	3	002-102
F3.10	1P47-H0054	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0055	Rigid Guide	VT-3	2	002-107
F3.10	1P47-H0056	Rigid Guide	VT-3	3	002-108
F3.10	1P47-H0057	Rigid Guide	VT-3	1	002-109

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P47-H0170	Rigid Strut	VT-3	2	002-105
F3.10	1F47-H0171	Rigid Strut	VT-3	2	002-105
F3.10	1P47-H0172	Rigid Strut	VT-3	1	002-110
F3.10	1P47-H0173	Rigid Strut	VT-3	2	002-110
F3.10	1P47-H0174	Rigid Strut	VT-3	3	002-110
F3.10	1P47-H0175	Rigid Strut	VT-3	1	002-110
F3.10	1P47-H0176	Rigid Strut	VT-3	2	002-105
F3.10	1P47-H0177	Rigid Strut	VT-3	3	002-105
F3.10	1P47-H0178	Rigid Strut	VT-3	1	002-111
F3.10	1P47-H0179	Rigid Strut	VT-3	2	002-111
F3.10	1P47-H0180	Rigid Strut	VT-3	3	002-106
F3.10	1P47-H0181	Rigid Strut	VT-3	1	002-106
F3.10	1P47-H0182	Rigid Strut	VT-3	2	002-111
F3.10	1P47-H0183	Rigid Strut	VT-3	3	002-111
F3.10	1P47-H0184	Rigid Strut	VT-3	1	002-106
F3.10	1P47-H0185	Rigid Strut	VT-3	2	002-106
F3.10	1P47-H0186	Rigid Strut	VT-3	3	002-111
F3.10	1P47-H0187	Rigid Strut	VT-3	1	002-111
F3.10	1P47-H0188	Rigid Strut	VT-3	2	002-106
F3.10	1P47-H0189	Rigid Strut	VT-3	3	002-106
F3.10	1P47-H0190	Rigid Strut	VT-3	1	002-113
F3.10	1P47-H0191	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0192	Rigid Strut	VT-3	3	002-103
F3.10	1P47-H0193	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0194	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0195	Rigid Strut	VT-3	3	002-113
F3.10	1P47-H0196	Rigid Strut	VT-3	1	002-113
F3.10	1P47-H0197	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0198	Rigid Strut	VT-3	3	002-103
F3.10	1P47-H0199	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0200	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0201	Rigid Strut	VT-3	3	002-113
F3.10	1P47-H0202	Rigid Strut	VT-3	1	002-104
F3.10	1P47-H0203	Rigid Strut	VT-3	2	002-104
F3.10	1P47-H0204	Rigid Strut	VT-3	3	002-113

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P47-H0205	Rigid Strut	VT-3	1	002-113
F3.10	1P47-H0206	Rigid Strut	VT-3	2	002-104
F3.10	1P47-H0207	Rigid Strut	VT-3	3	002-104
F3.10	1P47-H0208	Rigid Strut	VT-3	1	002-111
F3.10	1P47-H0209	Rigid Strut	VT-3	2	002-111
F3.10	1P47-H0210	Rigid Strut	VT-3	3	002-113
F3.10	1P47-H0211	Rigid Strut	VT-3	1	002-113
F3.10	1P47-H0212	Rigid Strut	VT-3	2	002-104
F3.10	1P47-H0213	Rigid Strut	VT-3	3	002-104
F3.10	1P47-H0215	Anchor (WA)	VT-3	3	002-110
F3.10	1P47-H0218	Anchor (WA)	VT-3	3	002-103
F3.10	1P47-H0219	Anchor (WA)	VT-3	1	002-113
F3.10	1P47-H0220	Anchor (WA)	VT-3	1	002-107
F3.10	1P47-H0221	Anchor (WA)	VT-3	2	002-105
F3.10	1P47-H0222	Anchor (WA)	VT-3	2	002-102
F3.10	1P47-H0224	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0226	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0228	Rigid Guide	VT-3	2	002-113
F3.10	1P47-H0230	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0232	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0233	Rigid Guide	VT-3	2	002-113
F3.10	1P47-H0234	Rigid Guide	VT-3	3	002-104
F3.10	1P47-H0236	Rigid Guide	VT-3	1	002-104
F3.10	1P47-H0238	Rigid Guide	VT-3	2	002-104
F3.10	1P47-H0240	Rigid Guide	VT-3	3	002-104
F3.10	1P47-H0242	Rigid Guide	VT-3	1	002-104
F3.10	1P47-H0251	Rigid Guide	VT-3	2	002-105
F3.10	1P47-H0252	Rigid Strut	VT-3	3	002-105
F3.10	1P47-H0253	Rigid Guide	VT-3	1	002-105
F3.10	1P47-H0254	Rigid Guide	VT-3	2	002-105
F3.10	1P47-H0255	Rigid Guide	VT-3	3	002-105
F3.10	1P47-H0256	Rigid Guide	VT-3	1	002-110
F3.10	1P47-H0257	Rigid Strut	VT-3	2	002-110
F3.10	1P47-H0258	Rigid Guide	VT-3	3	002-110
F3.10	1P47-H0259	Rigid Guide	VT-3	1	002-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI SS-</u> <u>ISO-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P47-H0260	Rigid Guide	VT-3	2	002-110
F3.10	1P47-H0261	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0262	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0263	Rigid Guide	VT-3	2	002-113
F3.10	1P47-H0264	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0265	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0266	Rigid Guide	VT-3	2	002-103
F3.10	1P47-H0267	Rigid Guide	VT-3	3	002-103
F3.10	1P47-H0268	Rigid Guide	VT-3	1	002-103
F3.10	1P47-H0269	Rigid Guide	VT-3	2	002-103
F3.10	1P47-H0270	Rigid Guide	VT-3	3	002-103
F3.10	1P47-H0272	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0273	Rigid Guide	VT-3	2	002-103
F3.10	1P47-H0274	Rigid Guide	VT-3	3	002-103
F3.10	1P47-H0275	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0276	Rigid Guide	VT-3	2	002-103
F3.10	1P47-H0277	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0278	Mechanical Snub. (WA)	VT-3	2	002-103
F3.10	1P47-H0279	Mechanical Snub. (WA)	VT-3	2	002-113
F3.10	1P47-H0280	Rigid Guide	VT-3	3	002-105
F3.10	1P47-H0281	Rigid Guide	VT-3	1	002-110
F3.10	1P47-H0282	Rigid Guide	VT-3	2	002-110
F3.10	1P47-H0283	Rigid Guide	VT-3	3	002-105
F3.10	1P47-H0284	Rigid Guide	VT-3	1	002-105
F3.10	1P47-H0285	Rigid Guide	VT-3	2	002-110
F3.10	1P47-H0286	Rigid Strut (WA)	VT-3	2	002-105
F3.10	1P47-H0287	Rigid Strut (WA)	VT-3	3	002-110
F3.10	1P47-H0289	Rigid Strut	VT-3	1	002-106
F3.10	1P47-H0290	Rigid Guide	VT-3	2	002-111
F3.10	1P47-H0291	Rigid Strut	VT-3	3	002-111
F3.10	1P47-H0292	Rigid Strut	VT-3	1	002-111
F3.10	1P47-H0293	Rigid Guide	VT-3	2	002-111
F3.10	1P47-H0294	Rigid Guide	VT-3	3	002-111
F3.10	1P47-H0295	Rigid Strut	VT-3	1	002-112
F3.10	1P47-H0296	Rigid Strut	VT-3	2	002-112

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>WALK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1P47-H0297	Rigid Guide	VT-3	3	002-112
F3.10	1P47-H0298	Rigid Guide	VT-3	1	002-106
F3.10	1P47-H0299	Rigid Guide	VT-3	2	002-106
F3.10	1P47-H0301	Rigid Strut	VT-3	3	002-104
F3.10	1P47-H0302	Rigid Guide	VT-3	1	002-113
F3.10	1P47-H0303	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0304	Rigid Guide	VT-3	3	002-113
F3.10	1P47-H0322	Rigid Guide	VT-3	1	002-102
F3.10	1P47-H0329	Rigid Strut	VT-3	2	002-114
F3.10	1P47-H0331	Rigid Strut	VT-3	3	002-114
F3.10	1P47-H0333	Rigid Strut	VT-3	1	002-113
F3.10	1P47-H0335	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0337	Rigid Guide	VT-3	3	002-114
F3.10	1P47-H0338	Rigid Guide	VT-3	1	002-114
F3.10	1P47-H0340	Rigid Strut	VT-3	2	002-114
F3.10	1P47-H0341	Rigid Strut	VT-3	3	002-114
F3.10	1P47-H0342	Rigid Strut	VT-3	1	002-104
F3.10	1P47-H0343	Rigid Strut	VT-3	2	002-103
F3.10	1P47-H0343	Rigid Strut	VT-3	1	002-104
F3.10	1P47-H0346	Rigid Strut	VT-3	2	002-113
F3.10	1P47-H0347	Rigid Strut	VT-3	2	002-104
F3.10	1P47-H0348	Rigid Strut (WA)	VT-3	3	002-113
F3.10	1P47-H0349	Rigid Strut (WA)	VT-3	1	002-104
F3.10	1P47-H0350	Rigid Guide	VT-3	2	002-104
F3.10	1P47-H0351	Rigid Strut	VT-3	3	002-114
F3.10	1P47-H0353	Rigid Strut	VT-3	3	002-114
F3.10	1P47-H0354	Rigid Guide	VT-3	1	002-112
F3.10	1P47-H0354	Rigid Guide	VT-3	2	002-112
F3.10	1P47-H0355	Rigid Guide	VT-3	1	002-105
F3.10	1P47-H0357	Rigid Strut (WA)	VT-3	3	002-111
F3.10	1P47-H0358	Rigid Strut (WA)	VT-3	1	002-105
F3.10	1P47-H0362	Rigid Strut	VT-3	2	002-112
F3.10	1P47-H0363	Rigid Strut	VT-3	3	002-112
F3.10	1P47-H0364	Rigid Strut	VT-3	1	002-112
F3.10	1P47-H0365	Rigid Strut	VT-3	1	002-114
F3.10	1P47-H0369	Rigid Strut	VT-3	1	002-109
F3.10	1P47-H0378	Variable Spring (WA)	VT-3	1	002-109

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI I30 SS-305-</u>
EXAMINATION CATEGORY: F A					
F3.10	1P47-H0379	Variable Spring (WA)	VT-3	2	002-109
F3.10	1P47-H0380	Variable Spring (WA)	VT-3	2	002-108
F3.10	1P47-H0381	Variable Spring (WA)	VT-3	3	002-108
F3.10	1P47-H0382	Variable Spring (WA)	VT-3	3	002-107
F3.10	1P47-H0383	Variable Spring	VT-3	1	002-107
F3.10	1P47-H0384	Rigid Strut	VT-3	2	002-104
F3.10	1P47-H0385	Rigid Strut	VT-3	3	002-113
F3.10	1P47-H0386	Rigid Strut	VT-3	1	002-103
F3.10	1P47-H0392	Rigid Strut	VT-3	2	002-105
F3.10	1P47-H0393	Rigid Strut	VT-3	3	002-110
F3.10	1P47-H5000	Rigid Strut	VT-3	1	002-110
F3.10	1P47-H5001	Rigid Guide	VT-3	2	002-105
F3.10	0P49-C002A-SP	Anchor, Screen Wash Pump (WA)	VT-3	3	214-101
F3.10	0P49-C002B-SP	Anchor, Screen Wash Pump (WA)	VT-3	1	214-102
F3.10	0P49-D003A-SP	Anchor, Screen Wash Str.	VT-3	2	214-101
F3.10	0P49-D003B-SP	Anchor, Screen Wash Strainer (WA)	VT-3	3	214-102
F3.10	1P57-A003A-SP	Anchor, ADS Safety-Related Air Storage Tank A (WA)	VT-3	1	271-101
F3.10	1P57-A003B-SP	Anchor, ADS Safety-Related Air Storage Tank B (WA)	VT-3	2	271-101
F3.10	1R44-A001A-SP	Anchor, Starting Air Rec. Tk (WA)	VT-3	3	351-102
F3.10	1R44-A001B-SP	Anchor, Starting Air Rec. Tk (WA)	VT-3	1	351-104
F3.10	1R44-A002A-SP	Anchor, Starting Air Rec. Tk (WA)	VT-3	2	351-103
F3.10	1R44-A002B-SP	Anchor, Starting Air Rec. Tk (WA)	VT-3	3	351-105
F3.10	1R45-A003A-SP	Anchor, Fuel Oil Day Tk (WA)	VT-3	3	355-110
F3.10	1R45-A003B-SP	Anchor, Fuel Oil Day Tk (WA)	VT-3	1	355-111
F3.10	1R45-A005-SP	Anchor, HPCS Fuel Oil Day Tk (WA)	VT-3	2	356-101
F3.10	1R46-A003A-SP	Anchor, Jacket Water Stand Pipe (WA)	VT-3	3	354-105
F3.10	1R46-A003B-SP	Anchor, Jacket Water Stand Pipe (WA)	VT-3	1	354-106
F3.10	1R46-B001A-SP	Anchor, Lube Oil Ht Exch. (WA)	VT-3	2	354-101
F3.10	1R46-B001B-SP	Anchor, Lube Oil Ht Exch. (WA)	VT-3	3	354-102
F3.10	1R46-B002A-SP	Anchor, Jacket Water Ht Exch. (WA)	VT-3	1	354-103

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 55-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1R46-B002B-SP	Anchor, Jacket Water Ht Exch. (WA)	VT-3	2	354-104
F3.10	1R47-A001A-SP	Stnby Diesel Gen. L.O. Tk Anchor (WA)	VT-3	3	353-103
F3.10	1R47-A001B-SP	Stnby Diesel Gen. L.O. Tk Anchor (WA)	VT-3	1	353-104
F3.10	1R47-D005A-SP	Stnby Diesel Gen. L.O. Filter Anchor (WA)	VT-3	2	353-105
F3.10	1R47-D005B-SP	Stnby Diesel Gen. L.O. Filter Anchor (WA)	VT-3	3	353-106
F3.10	1R47-D006A-SP	Stnby Diesel Gen. L.O. Kp Warm Filter Anchor (WA)	VT-3	1	353-101
F3.10	1R47-D006B-SP	Stnby Diesel Gen. L.O. Kp Warm Filter Anchor (WA)	VT-3	2	353-102
F3.10	1R48-D001A-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	2	355-105
F3.10	1R48-D001B-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	3	355-104
F3.10	1R48-D002A-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	2	355-103
F3.10	1R48-D002B-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	3	355-102
F3.10	1R48-D003A-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	2	355-103
F3.10	1R48-D003B-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	3	355-102
F3.10	1R48-D0010A-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	2	355-107
F3.10	1R48-D0010B-SP	Anchor; Stby Diesel Silencer (WA)	VT-3	3	355-106
F3.10	1R48-H0001	Rigid Guide	VT-3	3	355-103
F3.10	1R48-H0002	Rigid Guide	VT-3	1	355-103
F3.10	1R48-H0003	Rigid Guide	VT-3	2	355-103
F3.10	1R48-H0004	Rigid Strut	VT-3	3	355-103
F3.10	1R48-H0005	Anchor (WA)	VT-3	1	355-103
F3.10	1R48-H0006	Anchor (WA)	VT-3	1	355-103
F3.10	1R48-H0007	Rigid Guide	VT-3	2	355-103
F3.10	1R48-H0008	Rigid Strut	VT-3	3	355-103
F3.10	1R48-H0009	Rigid Guide	VT-3	1	355-103
F3.10	1R48-H0010	Rigid Guide	VT-3	2	355-103
F3.10	1R48-H0011	Anchor (WA)	VT-3	3	355-103
F3.10	1R48-H0012	Anchor (WA)	VT-3	1	355-103
F3.10	1R48-H0013	Anchor (WA)	VT-3	2	355-102
F3.10	1R48-H0014	Rigid Guide	VT-3	3	355-102
F3.10	1R48-H0015	Rigid Guide	VT-3	1	355-102
F3.10	1R48-H0016	Rigid Guide	VT-3	2	355-102
F3.10	1R48-H0017	Rigid Strut	VT-3	2	355-102
F3.10	1R48-H0018	Anchor (WA)	VT-3	2	355-102
F3.10	1R48-H0019	Anchor (WA)	VT-3	2	355-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	1R48-H0020	Rigid Guide	VT-3	3	355-102
F3.10	1R48-H0021	Rigid Guide	VT-3	1	355-102
F3.10	1R48-H0022	Rigid Guide	VT-3	2	355-102
F3.10	1R48-H0023	Rigid Strut	VT-3	3	355-102
F3.10	1R48-H0024	Anchor (WA)	VT-3	3	355-102
F3.10	1R48-H0025	Variable Spring	VT-3	1	355-105
F3.10	1R48-H0026	Variable Spring	VT-3	2	355-105
F3.10	1R48-H0027	Mechanical Snub. (WA) (Tandem)	VT-3	3	355-105
F3.10	1R48-H0028	Mechanical Snub. (Tandem)	VT-3	1	355-105
F3.10	1R48-H0029	Rigid Guide	VT-3	2	355-105
F3.10	1R48-H0030	Rigid Guide	VT-3	3	355-105
F3.10	1R48-H0031	Anchor (Not Welded)	VT-3	1	355-105
F3.10	1R48-H0032	Variable Spring	VT-3	2	355-104
F3.10	1R48-H0033	Variable Spring	VT-3	3	355-104
F3.10	1R48-H0034	Mechanical Snub. (WA) (Tandem)	VT-3	3	355-104
F3.10	1R48-H0035	Mechanical Snub.	VT-3	2	355-104
F3.10	1R48-H0036	Rigid Guide	VT-3	3	355-104
F3.10	1R48-H0037	Rigid Guide	VT-3	1	355-104
F3.10	1R48-H0038	Anchor (Not Welded)	VT-3	2	355-104
F3.10	1R48-H0039	Anchor (Not Welded)	VT-3	3	355-105
F3.10	1R48-H0040	Anchor (Not Welded)	VT-3	1	355-104
F3.10	1R48-H0041	Variable Spring (WA)	VT-3	2	355-105
F3.10	1R48-H0042	Variable Spring (WA)	VT-3	3	355-104
F3.10	1R48-H0043	Rigid Guide	VT-3	1	355-106
F3.10	1R48-H0044	Rigid Guide	VT-3	2	355-106
F3.10	1R48-H0045	Rigid Guide (WA)	VT-3	3	355-106
F3.10	1R48-H0046	Rigid Strut	VT-3	1	355-106
F3.10	1R48-H0047	Rigid Guide (WA)	VT-3	2	355-106
F3.10	1R48-H0048	Rigid Guide	VT-3	3	355-107
F3.10	1R48-H0049	Rigid Guide	VT-3	1	355-107
F3.10	1R48-H0050	Rigid Guide (WA)	VT-3	2	355-107
F3.10	1R48-H0051	Rigid Strut	VT-3	3	355-107
F3.10	1R48-H0052	Rigid Guide (WA)	VT-3	2	355-107
F3.10	1R48-PH001	Rigid Rod	VT-3	2	355-108
F3.10	1R48-PH002	Rigid Rod	VT-3	3	355-109

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-365-</u>	
EXAMINATION CATEGORY: F-A						
F3.10	1R48-PH003	Rigid Rod	VT-3	2	355-108	
F3.10	1R48-PH004	Rigid Rod	VT-3	2	355-109	
F3.10	1R48-PH005	Rigid Rod	VT-3	3	355-108	
F3.10	1R48-PH006	Rigid Rod	VT-3	3	355-109	
F3.10	1R48-PH007	Rigid Rod	VT-3	3	355-108	
F3.10	1R48-PH008	Rigid Rod	VT-3	3	355-109	
F3.10	1R48-PH009	Rigid Rod	VT-3	2	355-108	
F3.10	1R48-PH010	Rigid Rod	VT-3	3	355-109	
F3.10	1R48-PH011	Rigid Guide	VT-3	3	355-109	
F3.10	1R48-PH012	Rigid Guide	VT-3	2	355-108	
1-330	F3.10	2G41-H0032	Variable Spring	VT-3	1	655-103
	F3.10	2G41-H0033	Mechanical Snub.	VT-3	2	655-103
	F3.10	2G41-H0034	Mechanical Snub.	VT-3	3	655-103
	F3.10	2G41-H0035	Rigid Strut	VT-3	2	655-103
	F3.10	2G41-H0036	Mechanical Snub.	VT-3	2	655-103
	F3.10	2G41-H0037	Rigid Guide	VT-3	3	655-103
	F3.10	2G41-H0038	Mechanical Snub.	VT-3	1	655-103
	F3.10	2P42-H0009	Rigid Guide (WA)	VT-3	1	623-106
F3.10	2P42-H0010	Rigid Guide (WA)	VT-3	1	623-107	
F3.10	2P42-H0011	Rigid Strut	VT-3	2	623-107	
F3.10	2P42-H0012	Rigid Guide	VT-3	3	623-106	
F3.10	2P42-H0013	Rigid Guide	VT-3	1	623-107	
F3.10	2P42-H0014	Rigid Rod	VT-3	2	623-107	
F3.10	2P42-H0015	Rigid Rod	VT-3	3	623-107	
F3.10	2P42-H0016	Rigid Strut	VT-3	1	623-106	
F3.10	2P42-H0017	Rigid Rod	VT-3	2	623-106	
F3.10	2P42-H0018	Rigid Strut	VT-3	1	623-106	
F3.10	2P42-H0019	Rigid Strut	VT-3	2	623-107	
F3.10	2P42-H0020	Rigid Strut (WA)	VT-3	2	623-107	
F3.10	2P42-H0021	Rigid Rod	VT-3	2	623-107	
F3.10	2P42-H0024	Rigid Guide (WA)	VT-3	2	623-112	
F3.10	2P42-H0025	Rigid Guide (WA)	VT-3	2	623-110	
F3.10	2P42-H0026	Rigid Strut (WA)	VT-3	3	623-110	

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	2P42-H0030	Rigid Strut	VT-3	1	623-119
F3.10	2P42-H0034	Rigid Guide	VT-3	2	623-110
F3.10	2P42-H0035	Rigid Rod	VT-3	3	623-110
F3.10	2P42-H0036	Rigid Rod	VT-3	1	623-110
F3.10	2P42-H0037	Rigid Guide	VT-3	2	623-111
F3.10	2P42-H0039	Anchor (WA)	VT-3	3	623-101
F3.10	2P42-H0041	Rigid Strut	VT-3	1	623-110
F3.10	2P42-H0042	Rigid Strut	VT-3	2	623-110
F3.10	2P42-H0044	Anchor (WA)	VT-3	3	623-111
F3.10	2P42-H0046	Rigid Strut	VT-3	1	623-112
F3.10	2P42-H0047	Rigid Strut	VT-3	2	623-112
F3.10	2P42-H0048	Rigid Strut	VT-3	3	623-112
F3.10	2P42-H0049	Rigid Strut	VT-3	1	623-112
F3.10	2P42-H0050	Mechanical Snub. (WA)	VT-3	2	623-112
F3.10	2P42-H0051	Rigid Rod	VT-3	3	623-112
F3.10	2P42-H0052	Mechanical Snub.	VT-3	1	623-112
F3.10	2P42-H0053	Rigid Rod	VT-3	2	623-112
F3.10	2P42-H0054	Rigid Guide	VT-3	3	623-112
F3.10	2P42-H0055	Rigid Guide	VT-3	1	623-112
F3.10	2P42-H0056	Rigid Strut	VT-3	2	623-112
F3.10	2P42-H0114	Rigid Rod	VT-3	1	623-108
F3.10	2P42-H0115	Rigid Strut	VT-3	2	623-104
F3.10	2P42-H0116	Rigid Rod	VT-3	3	623-111
F3.10	2P42-H0117	Rigid Strut	VT-3	1	623-101
F3.10	2P42-H0118	Rigid Strut	VT-3	2	623-101
F3.10	2P42-H0119	Rigid Guide	VT-3	3	623-108
F3.10	2P42-H0120	Rigid Guide	VT-3	1	623-108
F3.10	2P42-H0121	Rigid Rod	VT-3	2	623-108
F3.10	2P42-H0122	Rigid Rod	VT-3	3	623-104
F3.10	2P42-H0123	Rigid Strut	VT-3	1	623-103
F3.10	2P42-H0124	Rigid Strut	VT-3	2	623-111
F3.10	2P42-H0125	Rigid Strut	VT-3	3	623-111
F3.10	2P42-H0126	Rigid Guide	VT-3	1	623-111
F3.10	2P42-H0127	Rigid Guide	VT-3	2	623-101
F3.10	2P42-H0128	Rigid Strut	VT-3	3	623-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	2P42-H0129	Rigid Strut	VT-3	1	623-108
F3.10	2P42-H0130	Rigid Strut	VT-3	2	623-102
F3.10	2P42-H0131	Rigid Strut	VT-3	3	623-102
F3.10	2P42-H0132	Rigid Guide	VT-3	3	623-102
F3.10	2P42-H0133	Rigid Strut	VT-3	1	623-102
F3.10	2P42-H0134	Rigid Strut	VT-3	2	623-103
F3.10	2P42-H0135	Rigid Strut	VT-3	3	623-103
F3.10	2P42-H0136	Rigid Strut	VT-3	1	623-102
F3.10	2P42-H0137	Rigid Strut	VT-3	2	623-104
F3.10	2P42-H0138	Rigid Strut	VT-3	3	623-108
F3.10	2P42-H0139	Rigid Guide	VT-3	1	623-105
F3.10	2P42-H0140	Rigid Strut	VT-3	2	623-103
F3.10	2P42-H0141	Rigid Strut	VT-3	3	623-103
F3.10	2P42-H0142	Rigid Strut	VT-3	2	623-104
F3.10	2P42-H0143	Rigid Guide (WA)	VT-3	1	623-108
F3.10	2P42-H0144	Rigid Strut	VT-3	2	623-108
F3.10	2P42-H0145	Rigid Guide	VT-3	3	623-108
F3.10	2P42-H0146	Rigid Guide (WA)	VT-3	3	623-108
F3.10	2P42-H0147	Rigid Guide	VT-3	1	623-108
F3.10	2P42-H0148	Rigid Strut (WA)	VT-3	3	623-104
F3.10	2P42-H0149	Rigid Guide	VT-3	2	623-104
F3.10	2P42-H0150	Rigid Strut	VT-3	3	623-104
F3.10	2P42-H0151	Rigid Guide	VT-3	1	623-104
F3.10	2P42-H0152	Rigid Guide	VT-3	2	623-104
F3.10	2P42-H0153	Rigid Strut (WA)	VT-3	3	623-103
F3.10	2P42-H0265	Anchor (WA)	VT-3	3	623-104
F3.10	2P42-H0273	Anchor (WA)	VT-3	3	623-106
F3.10	2P42-H0309	Rigid Guide	VT-3	1	623-111
F3.10	2P42-H0310	Rigid Guide	VT-3	2	623-102
F3.10	2P42-H0312	Mechanical Sub.	VT-3	3	623-111
F3.10	2P42-H0314	Rigid Guide	VT-3	1	623-113
F3.10	2P42-H0315	Rigid Strut	VT-3	2	623-109
F3.10	2P42-H0317	Rigid Guide	VT-3	3	623-106

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: F-A					
F3.10	2P45-H0021	Rigid Guide	VT-3	1	792-102
F3.10	2P45-H0022	Rigid Guide	VT-3	2	792-102
F3.10	2P45-H0023	Rigid Guide	VT-3	3	792-102

\*Not scheduled as piping supported does not require examination per CC-N408.

\*\*Not scheduled due to inaccessibility (see relief request IR-022).

## 6.0 AUGMENTED EXAMINATIONS

Section XI does not address inspections and examinations beyond those required in Class 1, 2 and 3 systems. The Augmented Section is included to identify components subject to examination as a result of commitments listed in documents such as NUREG's, GE SIL's, Regulatory Guides, Information Notices, etc.

The augmented examination categories are identifiable by a 'X' as the first assigned letter and are as follows:

Exam.

Cat.

Examination Area (Examination Method)

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X-A Reactor Vessel Internals (VOL. SUR. VIS.)

IEB 80-07: Resolution of the cracking of the jet pump holddown beams. Augmented ISI of the jet pump beams requiring a volumetric examination to ensure the integrity of the beam areas. These examinations will be performed in the last refueling outage of the inspection interval. CEI Commitments, #F00868, #L00416 (Item no. X0.2)

SIL #409: Augmented visual examinations are scheduled on the R&V SRM & IRM dry tubes to determine their condition relative to known cracking problems. They are scheduled such that half the SRM & IRM dry tubes are examined by the fourth refueling outage of the interval and the remainder by the end of the interval. CEI Commitment #B00548 (Item no. X0.4)

SIL #420: Augmented visual examinations are scheduled on the jet pump sensing lines and associated support brackets. These visual examinations will determine the integrity of the weld between the support brackets and the vertical run on the sensing line of the jet pumps closest to the recirculation outlet nozzles. The sensing lines are tentatively scheduled for examination during the final refueling outage of the inspection interval. (Item no. X0.3)

SIL #289/IEB 80-13: Cracking in Core Spray Spargers. Augmented visual examinations of the spargers is to be performed each refueling outage. (Item no. X0.5)

SIL #465: Jet Pump Mixer Unusual Surface Observations. Augmented visual examinations of the jet pump assemblies for nozzle obstructions. Also examined for loose part concerns. (Item no. X0.5)

RICSIL-023: Shroud Head Stud Bolt Wear. Augmented visual examination of the shroud head stud bolts to be performed each refueling outage. (Item no. X0.5)

Exam.  
Cat.

Examination Area (Examination Method)

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- SIL #474: Steam Dryer Drain Channel Cracking. Augmented visual examination of the steam drier drain channel welds. (Item no. X0.5)
- Loose parts concerns. (Item no. X0.11)
- X-B High Energy Piping in Break Exclusion Regions (VOL. SUR.)  
USAR Section 5.2.4.9. CEI Commitments, #FO0793, #FO0794, #FO0896, #S00010, #S00011. (Item no. X0.1)
- X-C Feedwater Nozzle, NUREG-0619 (VOL. SUR. VIS)  
NUREG-0619: The augmented program is directed solely to the feedwater nozzle section of the NUREG. The program is adjusted to reflect the NDE requirements of NUREG-0619, paragraph 4.3.2. (Item no. X0.6)
- X-D Recirculation System Pump Shaft (VOL)  
CEI Commitment #B00446 (Item no. X0.7)
- X-E Break Exclusion Region Flued Heads (VOL) CEI Commitment #S00012  
(Item no. X0.1)
- X-F RPV Shell to Flange and Upper Head to Flange for USAR Commitment  
(SUR) USAR Section 5.3.1 (Item no. X0.8)
- X-G IGSCC/CRC Weld Examinations. (VOL. SUR.)  
NUREG-0313 Rev. 2, Generic Letter 88-01.  
This portion of the augmented program identifies welds subject to the examination requirements listed in NUREG-0313 and GL 88-01. (Welds with item no. X0.9 are CRC and IGSCC Category A, X0.10 are IGSCC Category A, X0.12 are IGSCC Category D, and X0.13 are IGSCC Category F.)

6.1 Exemptions

There are no exemptions noted for the augmented components.

6.2 Examination Selection Process

Selections of components and items are based on the requirements delineated in each particular commitment.

6.3 Additional Examinations

Additional examinations are based on the requirements of each particular commitment.

6.4 Successive Examinations

Successive examinations are based on the requirements of each particular commitment.

## 6.5 Relief Requests

When compliance to Code examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for components subject to the examination commitments.

NOTE: No IR's Filed

## 6.6 Inservice Examination Table

This section contains the listing of Augmented components subject to examination. This listing is for reference purposes only. The actual components scheduled for examinations are presented to management for approval 60 days prior to commencing a scheduled refueling outage.

The information presented in the tables are defined below:

1. EXAMINATION CATEGORY - The basis for organizing components subject to examination.
2. ITEM NO. - A division within an examination category which separates the specific examination requirements.
3. MARK NO. - A unique identification number assigned to each weld or component.
4. COMPONENT DESCRIPTION - A brief description used to identify the weld or component.
5. EXAM METHOD - This abbreviation identifies the unique non-destructive examination method(s) required for the weld or component. The abbreviations used in this listing are as follows:

MT	-	Magnetic Particle Testing
PT	-	Dye Penetrant Testing
UT	-	Ultrasonic Testing
RT	-	Radiography Testing
VT-1	-	Visual Examination for Surface Conditions
VT-2	-	Visual Examination for Leakage
VT-3	-	Visual Examination for General Conditions
6. PERIOD SCHED. - This column identifies the inspection period which the weld or component is tentatively scheduled to receive examination. The period scheduled can be either 1, 2, 3, or any combination of these numbers. For those welds or components not scheduled for examination, the letters "N<sup>c</sup>" will be inserted in place of an inspection period.

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.4	1B13-APRM-08/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-08/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-08/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-08/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-08/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/09	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-16/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/09	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-24/57	RPV APRM Instrument Dry Tube	VT-3	3	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.4	1B13-APRM-32/09	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-32/57	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/09	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-40/57	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-48/09	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-48/17	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-48/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
XO.4	1B13-APRM-48/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION:</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: .. A					
X0.4	1B13-APRM-48/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
X0.4	1B13-APRM-48/49	RPV APRM Instrument Dry Tube	VT-3	3	006-101
X0.4	1B13-APRM-56/25	RPV APRM Instrument Dry Tube	VT-3	3	006-101
X0.4	1B13-APRM-56/33	RPV APRM Instrument Dry Tube	VT-3	3	006-101
X0.4	1B13-APRM-56/41	RPV APRM Instrument Dry Tube	VT-3	3	006-101
X0.5	1B13-CSS	RPV Core Spray Sparger	VT-1	1,2,3	006-101
X0.11	1B13-CSS-TGTW	Core Support Structure, Top Guide Stud Tack Welds	VT-3	1	006-101
X0.11	1B13-CSSB-B	RPV Core Spray Sparger Bracket Brackets and Bolting	VT-3	3	006-101
X0.11	1B13-CSSTW	RPV Core Spray Sparger Tack Welds	VT-3	1	006-101
X0.11	1B13-FS	RPV Feedwater Spargers	VT-3	3	006-101
X0.11	1B13-FSB	RPV Feedwater Sparger, Bracket	VT-3	3	006-101
X0.11	1B13-FSBTW	RPV Feedwater Sparger Bracket Tack Weld	VT-3	1	006-101
X0.11	1B13-GRSB	RPV Guide Rod Support Bracket	VT-3	3	006-101
X0.4	1B13-IRM-16/13	RPV IRM Instrument Dry Tube B	VT-3	1,2	006-101
X0.4	1B13-IRM-16/53	RPV IRM Instrument Dry Tube A	VT-3	1,3	006-101
X0.4	1B13-IRM-24/29	RPV IRM Instrument Dry Tube D	VT-3	1,2	006-101
X0.4	1B13-IRM-24/37	RPV IRM Instrument Dry Tube C	VT-3	1,2	006-101
X0.4	1B13-IRM-32/29	RPV IRM Instrument Dry Tube E	VT-3	1,2	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.4	1B13-IRM-32/37	RPV IRM Instrument Dry Tube F	VT-3	1,3	006-101
XO.4	1B13-IRM-48/13	RPV IRM Instrument Dry Tube G	VT-3	1,3	006-101
XC.4	1B13-IRM-48/53	RPV IRM Instrument Dry Tube H	VT-3	1,3	006-101
XO.5	1B13-JPA-P01	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P02	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P03	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P04	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P05	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P06	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P07	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P08	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P09	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P10	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P11	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P12	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P13	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P14	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P15	RPV Jet Pump Assembly	VT-3	3	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.5	1B13-JPA-P16	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P17	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P18	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P19	RPV Jet Pump Assembly	VT-3	3	006-101
XO.5	1B13-JPA-P20	RPV Jet Pump Assembly	VT-3	3	006-101
XO.3	1B13-JPLBW-P01	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P02	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P03	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P04	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P05	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P06	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P07	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P08	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P09	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P10	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P11	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P12	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P13	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.3	1B13-JPLBW-P14	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P15	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P16	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P17	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P18	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.3	1B13-JPLBW-P19	Jet Pump Line/Bracket Attachment Welds	VT-3	1	006-101
XO.3	1B13-JPLBW-P20	Jet Pump Line/Bracket Attachment Welds	VT-3	3	006-101
XO.11	1B13-JPTW-P01	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P02	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P03	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P04	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P05	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P06	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P07	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P08	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P09	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P10	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P11	RPV Jet Pump Tack Welds	VT-3	1	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-1.					
XO.11	1B13-JPTW-P12	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P13	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P14	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P15	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P16	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P17	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P18	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P19	RPV Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-JPTW-P20	Rr. Jet Pump Tack Welds	VT-3	1	006-101
XO.11	1B13-NSH-13/20	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-13/36	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-17/20	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-17/36	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-29/28	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-33/12	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-33/44	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-37/12	Start-up Neutron Source Holders	VT-3	1	006-101
XO.11	1B13-NSH-37/44	Start-up Neutron Source Holders	VT-3	1	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
X0.11	1B13-NSH-49/20	Start-up Neutron Source Holders	VT-3	1	006-101
X0.11	1B13-NSH-49/36	Start-up Neutron Source Holders	VT-3	1	006-101
X0.2	1B13-P1/P2	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P3/P4	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P5/P6	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P7/P8	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P9/P10	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P11/P12	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P13/P14	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P15/P16	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P17/P18	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.2	1B13-P19/P20	RPV JET PUMP Hold Down Beam	UT	3	006-101
X0.11	1B13-RHR/LPCI	RPV RHR/LPCI Lines	VT-3	3	006-101
X0.11	1B13-RHR/LPCI-D	RPV RHR/LPCI Flow Deflectors	VT-3	3	006-101
X0.5	1B13-SD	RPV Steam Dryer	VT-3	1	006-101
X0.11	1B13-SDHDB	RPV Steam Dryer Hold Down Bracket	VT-3	1	006-101
X0.11	1B13-SDHDB-WA	RPV Steam Dryer Hold Down Bracket Welded Attachment	VT-3	1	006-101
X0.11	1B13-SDSB	RPV Steam Dryer Support Bracket	VT-3	1	006-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-A					
XO.11	1B13-SHMSA	RPV Shroud Head/Moisture Separator Assembly	VT-3	1	006-101
XO.5	1B13-SHSB	RPV Shroud Head Stud Bolts	VT-3	1,2,3	006-101
XO.4	1B13-SRM-16/21	RPV SRM Instrument Dry Tube B	VT-3	1,3	006-101
XO.4	1B13-SRM-16/45	RPV SRM Instrument Dry Tube A	VT-3	1,2	006-101
XO.4	1B13-SRM-40/21	RPV SRM Instrument Dry Tube C	VT-3	1,2	006-101
XO.4	1B13-SRM-40.45	RPV SRM Instrument Dry Tube D	VT-3	1,3	006-101
XO.11	1B13-SSAHC	RPV Shroud Support Access Hole Cover Weld	VT-3	3	006-101
XO.11	1B13-SSH-1	RPV, Surveillance Sample Holder/Specimen	VT-3	1	006-101
XO.11	1B13-SSH-2	RPV, Surveillance Sample Holder/Specimen	VT-3	1	006-101
XO.11	1B13-SSH-3	RPV, Surveillance Sample Holder/Specimen	VT-3	1	006-101
EXAMINATION CATEGORY: X-B					
XO.1	1B21-0015 @	25" VALVE F022C TO PEN. P122 PROCESS PIPE	UT, PT	NS*	605-103
XO.1	1B21-0016 @	26" PEN. P122 PROCESS PIPE TO VALVE F028C	UT, PT	NS*	605-109
XO.1	1B21-0017 @	26" VALVE F028C TO PIPE	UT, PT	3	605-109
XO.1	1B21-0018 @	26" PIPE TO 28" PIPE	UT, PT	NS**	605-109
XO.1	1B21-0050 @	26" VALVE F022D TO PEN. P415 PROCESS PIPE	UT, PT	NS*	605-104
XO.1	1B21-0051 @	26" PEN. P415 PROCESS PIPE TO VALVE F028D	UT, PT	NS*	605-110
XO.1	1B21-0052 @	26" VALVE F028D TO PIPE	UT, PT	2	605-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1B21-0053 @	26" PIPE TO 28" PIPE	UT, PT	3	605-110
XO.1	1B21-0092 @	26" VALVE F022B TO PEN. P416 PROCESS PIPE	UT, PT	NS*	605-102
XO.1	1B21-0093 @	26" PEN. P416 PROCESS PIPE TO VALVE F028D	UT, PT	NS*	605-108
XO.1	1B21-0094 @	26" VALVE F028B TO PIPE	UT, PT	1	605-108
XO.1	1B21-0095 @	26" PIPE TO 28" PIPE	UT, PT	3	605-108
XO.1	1B21-0128 @	26" VALVE F022A TO PEN. P124 PROCESS PIPE	UT, PT	NS*	605-101
XO.1	1B21-0129 @	26" PEN. P124 PROCESS PIPE TO VALVE F028A	UT, PT	NS*	605-107
XO.1	1B21-0130 @	26" VALVE F028A TO PIPE	UT, PT	1	605-107
XO.1	1B21-0131 @	26" PIPE TO 28" PIPE	UT, PT	2	605-107
XO.1	1C11-0083 @	2 1/2" PIPE TO VALVE F122	PT	1	871-105
XO.1	1C11-0084 @	2 1/2" ELBOW TO PIPE	PT	2	871-105
XO.1	1C11-0085 @	2 1/2" PIPE TO ELBOW	PT	1	871-105
XO.1	1C11-0086 @	2 1/2" ELBOW TO PIPE	PT	2	871-105
XO.1	1C11-0087 @	2 1/2" PIPE TO ELBOW	PT	3	871-105
XO.1	1C11-0088 @	2 1/2" ELBOW TO PIPE	PT	1	871-105
XO.1	1C11-0089 @	2 1/2" PIPE TO ELBOW	PT	3	871-105
XO.1	1C11-0090 @	2 1/2" VALVE F083 TO PIPE	PT	3	871-105
XO.1	1C11-0091 @	2 1/2" PIPE TO VALVE F083	PT	3	871-105

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1C11-0092 @	2 1/2" PIPE TO ELBOW	PT	2	871-105
XC.1	1C11-0093 @	2 1/2" PIPE TO PIPE	PT	2	871-105
XO.1	1E12-0333 @	12" VALVE P053A TO PIPE	UT, PT	NS**	642-119
XO.1	1E12-0334 @	12" PIPE TO ELBOW	UT, PT	2	642-119
XO.1	1E12-0335 @	12" ELBOW TO PIPE	UT, PT	2	642-119
XO.1	1E12-0336 @	12" PIPE TO VALVE P050A	UT, PT	NS**	642-120
XO.1	1E12-0337 @	1" VALVE P050A TO PIPE	UT, PT	NS**	642-120
XO.1	1E12-0338 @	12" PIPE TO 12" X 14" REDUCING SLEEVE	UT, PT	NS**	642-120
XO.1	1E12-0339 @	12" PIPE TO 12" X 6" SWEEPolet RWCU INTERTIE	UT	3	642-120
XO.1	1E12-0580 @	12" VALVE P053B TO PIPE	UT, PT	1	642-132
XO.1	1E12-0581 @	12" PIPE TO ELBOW	UT, PT	2	642-132
XO.1	1E12-0582 @	12" ELBOW TO PIPE	UT, PT	1	642-132
XO.1	1E12-0583 @	12" PIPE TO VALVE P050B	UT, PT	3	642-131
XO.1	1E12-0584 @	12" VALVE P050B TO PIPE	UT, PT	3	642-131
XO.1	1E12-0585 @	12" PIPE TO 12" X 6" SWEEPolet RWCU INTERTIE	UT	2	642-131
XO.1	1E12-0586 @	12" PIPE TO 12" X 14" REDUCING SLEEVE	UT, PT	NS**	642-131
XO.1	1E32-0196 @	2" COUPLING ON VALVE P028B TO PIPE	PT	NS*	341-102
XO.1	1E32-0197 @	2" PIPE TO TEE	PT	1	341-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1E32-0198 @	2" TEE TO 2" X 1" REDUCER	PT	2	341-102
XO.1	1E32-0199 @	2" TEE TO PIPE	PT	NS*	341-102
XO.1	1E32-0200 @	2" PIPE TO 2" X 2 1/2" REDUCER	PT	2	341-102
XO.1	1E32-0201 @	2" X 2 1/2" REDUCER TO 2 1/2" PIPE	PT	1	341-102
XO.1	1E32-0202 @	2 1/2" PIPE TO 1 1/2" BRANCH CONNECTION (COUPLING)	PT	3	341-102
XO.1	1E32-0203 @	1 1/2" COUPLING TO PIPE	PT	NS*	341-102
XO.1	1E32-0204 @	1 1/2" PIPE TO ELBOW	PT	3	341-102
XO.1	1E32-0205 @	1 1/2" ELBOW TO PIPE	PT	3	341-102
XO.1	1E32-0206 @	1 1/2" PIPE TO VALVE F025E	PT	NS*	341-102
XO.1	1E32-0207 @	1 1/2" VALVE F025E TO PIPE	PT	2	341-102
XO.1	1E32-0208 @	1 1/2" PIPE TO VALVE F026E	PT	1	341-102
XO.1	1E32-0209 @	2 1/2" PIPE TO ELBOW	PT	3	341-102
XO.1	1E32-0210 @	2 1/2" ELBOW TO PIPE	PT	3	341-102
XO.1	1E32-0211 @	2 1/2" PIPE TO VALVE F001E	PT	NS*	341-102
XO.1	1E32-0215 @	2" COUPLING ON VALVE F028A TO PIPE	PT	NS*	341-101
XO.1	1E32-0216 @	2" PIPE TO TEE	PT	2	341-101
XO.1	1E32-0217 @	2" TEE TO 2" X 1" REDUCER	PT	NS*	341-101
XO.1	1E32-0218 @	2" TEE TO PIPE	PT	3	341-101

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1E32-0219 @	2" PIPE TO 2" X 2 1/2" REDUCER	PT	1	341-101
XO.1	1E32-0220 @	2" X 2 1/2" REDUCER TO 2 1/2" PIPE	PT	3	341-101
XC.1	1E32-0221 @	2 1/2" PIPE TO ELBOW	PT	NS*	341-101
XO.1	1E32-0222 @	1 1/2" ELBOW TO PIPE	PT	3	341-101
XO.1	1E32-0223 @	1 1/2" PIPE TO 1 1/2" BRANCH CONNECTION (COUPLING)	PT	NS*	341-101
XO.1	1E32-0224 @	1 1/2" COUPLING TO PIPE	PT	2	341-101
XO.1	1E32-0225 @	1 1/2" PIPE TO ELBOW	PT	3	341-101
XO.1	1E32-0226 @	1 1/2" ELBOW TO PIPE	PT	2	341-101
XO.1	1E32-0227 @	1 1/2" PIPE TO VALVE F025A	PT	NS*	341-101
XO.1	1E32-0228 @	1 1/2" VALVE F025A TO PIPE	PT	3	341-101
XO.1	1E32-0229 @	1 1/2" PIPE TO VALVE F026A	PT	1	341-101
XO.1	1E32-0230 @	2 1/2" PIPE TO VALVE F001A	PT	1	341-101
XO.1	1E32-0234 @	2" COUPLING ON VALVE F028D TO PIPE	PT	1	341-104
XO.1	1E32-0235 @	2" PIPE TO TEE	PT	3	341-104
XO.1	1E32-0236 @	2" TEE TO 2" X 1" REDUCER	PT	3	341-104
XO.1	1E32-0237 @	2" TEE TO PIPE	PT	2	341-104
XO.1	1E32-0238 @	2" PIPE TO 2" X 2 1/2" REDUCER	PT	NS*	341-104
XO.1	1E32-0239 @	2" X 2 1/2" REDUCER TO 2 1/2" PIPE	PT	1	341-104

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1E32-0240 @	2 1/2" PIPE TO ELBOW	PT	2	341-104
XO.1	1E32-0241 @	2 1/2" ELBOW TO PIPE	PT	NS*	341-104
XO.1	1E32-0242 @	2 1/2" PIPE TO 1 1/2" BRANCH CONNECTION (COUPLING)	PT	NS*	341-104
XO.1	1E32-0243 @	1 1/2" COUPLING TO PIPE	PT	3	341-104
XO.1	1E32-0244 @	1 1/2" PIPE TO ELBOW	PT	3	341-104
XO.1	1E32-0245 @	1 1/2" ELBOW TO PIPE	PT	3	341-104
XO.1	1E32-0246 @	1 1/2" PIPE TO VALVE F025N	PT	3	341-104
XO.1	1E32-0247 @	1 1/2" VALVE F025N TO PIPE	PT	3	341-104
XO.1	1E32-0248 @	1 1/2" PIPE TO VALVE F026N	PT	NS*	341-104
XO.1	1E32-0249 @	2 1/2" PIPE TO VALVE F001N	PT	2	341-104
XO.1	1E32-0252 @	2" COUPLING ON VALVE F028C TO PIPE	PT	1	341-103
XO.1	1E32-0253 @	2" PIPE TO TEE	PT	2	341-103
XO.1	1E32-0254 @	2" TEE TO 2" X 1" REDUCER	PT	3	341-103
XO.1	1E32-0255 @	2" TEE TO PIPE	PT	3	341-103
XO.1	1E32-0256 @	2" PIPE TO 2" X 2 1/2" REDUCER	PT	NS*	341-103
XO.1	1E32-0257 @	2" X 2 1/2" REDUCER TO 2 1/2" PIPE	PT	3	341-103
XO.1	1E32-0258 @	2 1/2" PIPE TO 1 1/2" BRANCH CONNECTION (COUPLING)	PT	NS*	341-103
XO.1	1E32-0259 @	1 1/2" COUPLING TO PIPE	PT	1	341-103

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1E32-0260 @	1 1/2" PIPE TO ELBOW	PT	NS*	341-103
XO.1	1E32-0261 @	1 1/2" ELBOW TO PIPE	PT	3	341-103
XO.1	1E32-0262 @	1 1/2" PIPE TO VALVE F025J	PT	2	341-103
XO.1	1E32-0263 @	1 1/2" VALVE F025J TO PIPE	PT	2	341-103
XO.1	1E32-0264 @	1 1/2" PIPE TO VALVE F026J	PT	2	341-103
XO.1	1E32-0265 @	2 1/2" PIPE TO ELBOW	PT	3	341-103
XO.1	1E32-0266 @	2 1/2" ELBOW TO PIPE	PT	NS*	341-103
XO.1	1E32-0267 @	2 1/2" PIPE TO VALVE F001J	PT	3	341-103
XO.1	1E51-0120 @	10" PIPE TO VALVE F064	UT, PT	NS*	632-102
XO.1	1E51-0121 @	10" PENETRATION P422 PROCESS PIPE TO PIPE	UT, PT	NS*	632-102
XO.1	1E51-0122 @	10" PIPE TO PENETRATION P422 PROCESS PIPE	UT, PT	NS*	632-101
XO.1	1E51-0123 @	10" VALVE F063 TO PIPE	UT, PT	3	632-101
XO.1	1E51-0124 @	10" PIPE TO VALVE F063	UT, PT	2	632-101
XO.1	1G33-0060 @	6" PIPE TO VALVE F001	UT, PT	NS*	671-103
XO.1	1G33-0061 @	6" VALVE F001 TO PIPE	UT, PT	NS*	671-103
XO.1	1G33-0062 @	6" PIPE TO PENETRATION P131 PROCESS PIPE	UT, PT	NS*	671-103
XO.1	1G33-0063 @	6" PENETRATION P131 PROCESS PIPE TO PIPE	UT, PT	NS*	671-104
XO.1	1G33-0064 @	6" PIPE TO VALVE F004	UT, PT	NS*	671-104

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<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1G33-0064A @	6" VALVE F004 TO ELBOW	UT, PT	1	671-104
XO.1	1G33-0064B @	6" ELBOW TO PIPE	UT, PT	1	671-104
XO.1	1G33-0064C @	6" PIPE TO ELBOW	UT, PT	2	671-104
XO.1	1G33-0064D @	6" ELBOW TO PIPE	UT, PT	2	671-104
XO.1	1G33-0064E @	6" PIPE TO ELBOW	UT, PT	2	671-104
XO.1	1G33-0064F @	6" ELBOW TO PIPE	UT, PT	2	671-104
XO.1	1G33-0114 @	6" VALVE F040 TO PENETRATION P132 PROCESS PIPE	UT, PT	NS**	672-102
XO.1	1G33-0115 @	6" PENETRATION P132 PROCESS PIPE TO VALVE F039	UT, PT	NS**	672-102
XO.1	1G33-0116 @	6" VALVE F039 TO PIPE	UT, PT	2	672-102
XO.1	1G33-0117 @	6" PIPE TO FLANGE FE N040	UT, PT	2	672-102
XO.1	1G33-0118 @	6" FLANGE FE N040 TO PIPE	UT, PT	1	672-102
XO.1	1G33-0119 @	6" PIPE TO ELBOW	UT, PT	1	672-102
XO.1	1G33-0120 @	6" ELBOW TO PIPE	UT, PT	3	672-102
XO.1	1G33-0121 @	6" X 6" X 6" TEE TO PIPE	UT, PT	3	672-101
XO.1	1G33-0122 @	6" X 6" X 6" TEE TO VALVE F051A	UT, PT	NS**	672-101
XO.1	1G33-0123 @	6" VALVE F051A TO PIPE	UT, PT	2	672-101
XO.1	1G33-0124 @	6" PIPE TO ELBOW	UT, PT	2	672-101
XO.1	1G33-0125 @	6" ELBOW TO PIPE	UT, PT	2	672-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
X0.1	1G33-0126 @	6" PIPE TO VALVE F052A	UT, PT	2	672-101
X0.1	1G33-0127 @	6" VALVE F052A TO PIPE	UT, PT	2	672-101
X0.1	1G33-0128 @	6" PIPE TO ELBOW	UT, PT	2	672-101
X0.1	1G33-0129 @	6" ELBOW TO PIPE	UT, PT	2	672-101
X0.1	1G33-0130 @	6" PIPE TO ELBOW	UT, PT	1	672-101
X0.1	1G33-0131 @	6" ELBOW TO WELDOLET	UT, PT	1	672-101
X0.1	1G33-0132 @	6" PIPE TO TEE	UT, PT	1	672-101
X0.1	1G33-0132A @	6" PIPE TO PIPE	UT, PT	2	672-101
X0.1	1G33-0133 @	6" VALVE F051B TO PIPE	UT, PT	3	672-101
X0.1	1G33-0134 @	6" ELBOW TO VALVE F051B	UT, PT	3	672-101
X0.1	1G33-0135 @	6" PIPE TO ELBOW	UT, PT	3	672-101
X0.1	1G33-0136 @	6" ELBOW TO PIPE	UT, PT	1	672-101
X0.1	1G33-0137 @	6" PIPE TO ELBOW	UT, PT	1	672-101
X0.1	1G33-0138 @	6" VALVE F052B TO PIPE	UT, PT	3	672-101
X0.1	1G33-0139 @	6" PIPE TO VALVE F052B	UT, PT	3	672-101
X0.1	1G33-0140 @	6" ELBOW TO PIPE	UT, PT	3	672-101
X0.1	1G33-0141 @	6" PIPE TO ELBOW	UT, PT	3	672-101
X0.1	1G33-0142 @	6" ELBOW TO PIPE	UT, PT	3	672-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 53-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1G33-0143 @	6" WELDOLET TO ELBOW	UT, PT	3	672-101
XO.1	1G33-0158 @	4" PIPE TO VALVE F053	UT, PT	1	672-103
XO.1	1G33-0159 @	4" VALVE F054 TO 4" PIPE	UT, PT	1	672-103
XO.1	1G33-0160 @	4" VALVE F028 TO 4" PIPE	UT, PT	2	672-103
XO.1	1G33-0161 @	4" PIPE TO VALVE F034	UT, PT	2	672-103
XO.1	1N22-0026 @	2" COUPLING ON VALVE F022C TO PIPE	PT	NS*	121-102
XO.1	1N22-0027 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0028 @	2" ELBOW TO PIPE	PT	2	121-102
XO.1	1N22-0029 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0030 @	2" ELBOW TO PIPE	PT	NS*	121-102
XO.1	1N22-0030A @	2" PIPE TO COUPLING	PT	3	121-102
XO.1	1N22-0030B @	2" COUPLING TO PIPE	PT	1	121-102
XO.1	1N22-0031 @	2" PIPE TO ELBOW	PT	2	121-102
XO.1	1N22-0032 @	2" ELBOW TO PIPE	PT	1	121-102
XO.1	1N22-0033 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0034 @	2" ELBOW TO PIPE	PT	2	121-102
XO.1	1N22-0035 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0036 @	2" ELBOW TO PIPE	PT	2	121-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
X0.1	1N22-0037 @	2" PIPE TO 2" X 3" X 3" TEE	PT	1	121-102
X0.1	1N22-0059 @	2" COUPLING ON VALVE F022D TO PIPE	PT	NS*	121-101
X0.1	1N22-0060 @	2" PIPE TO ELBOW	PT	3	121-101
X0.1	1N22-0061 @	2" ELBOW TO PIPE	PT	NS*	121-101
X0.1	1N22-0062 @	2" PIPE TO ELBOW	PT	NS*	121-101
X0.1	1N22-0063 @	2" ELBOW TO PIPE	PT	3	121-101
X0.1	1N22-0064 @	2" PIPE TO ELBOW	PT	3	121-101
X0.1	1N22-0065 @	2" ELBCW TO PIPE	PT	2	121-101
X0.1	1N22-0066 @	2" PIPE TO 2" X 3" REDUCER	PT	1	121-101
X0.1	1N22-0067 @	2" X 3" REDUCER TO PIPE	PT	NS*	121-101
X0.1	1N22-0068 @	3" PIPE TO 3" X 3" X 2" TEE	PT	3	121-101
X0.1	1N22-0069 @	3" X 3" X 2" TEE TO 3" PIPE	PT	2	121-101
X0.1	1N22-0070 @	3" PIPE TO 3" X 3" X 2" TEE	PT	2	121-103
X0.1	1N22-0071 @	3" X 3" X 2" TEE TO 3" PIPE	PT	3	121-103
X0.1	1N22-0072 @	3" PIPE TO 3" X 3" X 2" TEE	PT	3	121-103
X0.1	1N22-0073 @	3" X 3" X 2" TEE TO 3" PIPE	PT	3	121-103
X0.1	1N22-0074 @	3" PIPE TO VALVE F016	PT	1	121-103
X0.1	1N22-0075 @	3" VALVE F016 TO PEN. P423	PT	NS*	121-103

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1N22-0076 @	PENETRATION P423 TO 3" PIPE	PT	NS*	121-103
XO.1	1N22-0077 @	3" PIPE TO VALVE F019	PT	2	121-103
XO.1	1N22-0103 @	2" COUPLING ON VALVE F022B	PT	NS*	121-101
XO.1	1N22-0104 @	2" PIPE TO ELBOW	PT	NS*	121-101
XO.1	1N22-0105 @	2" ELBOW TO PIPE	PT	2	121-101
XO.1	1N22-0106 @	2" PIPE TO ELBOW	PT	NS*	121-101
XO.1	1N22-0107 @	2" ELBOW TO PIPE	PT	NS*	121-101
XO.1	1N11-0108 @	2" PIPE TO ELBOW	PT	3	121-101
XO.1	1N22-0108A @	2" ELBOW TO PIPE	PT	3	121-101
XO.1	1N22-0108B @	2" PIPE TO ELBOW	PT	2	121-101
XO.1	1N22-0109 @	2" ELBOW TO PIPE	PT	3	121-101
XO.1	1N22-0109A @	2" PIPE TO COUPLING	PT	3	121-101
XO.1	1N22-0109B @	2" COUPLING TO PIPE	PT	3	121-101
XO.1	1N22-0110 @	2" PIPE TO ELBOW	PT	3	121-101
XO.1	1N22-0111 @	2" ELBOW TO PIPE	PT	3	121-101
XO.1	1N22-0112 @	2" PIPE TO ELBOW	PT	3	121-101
XO.1	1N22-0113 @	2" ELBOW TO PIPE	PT	3	121-101
XO.1	1N22-0114 @	2" PIPE TO ELBOW	PT	2	121-101

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Inservice Examination Interim Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISC SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1N22-0115 @	2" ELBOW TO PIPE	PT	1	121-101
XO.1	1N22-0116 @	2" PIPE TO 3" X 3" X 2" TEE	PT	1	121-101
XO.1	1N22-0136 @	2" COUPLING ON VALVE F022A TO PIPE	PT	NS*	121-102
XO.1	1N22-0137 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0138 @	2" ELBOW TO PIPE	PT	2	121-102
XO.1	1N22-0139 @	2" PIPE TO ELBOW	PT	2	121-102
XO.1	1N22-0140 @	2" ELBOW TO PIPE	PT	3	121-102
XO.1	1N22-0141 @	2" PIPE TO ELBOW	PT	2	121-102
XO.1	1N22-0142 @	2" ELBOW TO PIPE	PT	NS*	121-102
XO.1	1N22-0143 @	2" PIPE TO ELBOW	PT	3	121-102
XO.1	1N22-0144 @	2" ELBOW TO PIPE	PT	3	121-102
XO.1	1N22-0145 @	2" PIPE TO ELBOW	PT	NS*	121-102
XO.1	1N22-0146 @	2" ELBOW TO PIPE	PT	2	121-102
XO.1	1N22-0147 @	2" PIPE TO 3" X 3" X 2" TEE	PT	NS*	121-102
XO.1	1N27-0007 @	20" VALVE F559A TO PIPE	UT, PT	3	082-102
XO.1	1N27-0008 @	20" PENETRATION P121 PROCESS PIPE TO VALVE F559A	UT, PT	NS*	082-102
XO.1	1N27-0009 @	20" VALVE F032A TO PENETRATION P121 PROCESS PIPE	UT, PT	NS*	082-101
XO.1	1N27-0010 @	20" PIPE TO VALVE F032A	UT, PT	2	082-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
XO.1	1N27-0010A @	20" PIPE TO PIPE	UT, PT	NS**	082-101
XO.1	1N27-0011 @	20" X 20" X 14" TEE TO 20" PIPE	UT, PT	3	082-101
XO.1	1N27-0011A @	20" X 20" X 14" TEE TO 14" X 12" REDUCER	UT, PT	3	082-101
XO.1	1N27-0012 @	20" PIPE TO 20" X 20" X 14" TEE	UT, PT	3	082-101
XO.1	1N27-0013 @	20" VALVE F065A TO PIPE	UT, PT	2	082-101
XO.1	1N27-0014 @	20" PIPE TO VALVE F065A	UT, PT	2	082-101
XO.1	1N27-0021 @	20" VALVE F559B TO PIPE	UT, PT	3	082-105
XO.1	1N27-0022 @	20" PENETRATION P414 PROCESS PIPE TO VALVE F559B	UT, PT	NS*	082-105
XO.1	1N27-0023 @	20" VALVE F032B TO PENETRATION P414 PROCESS PIPE	UT, PT	NS*	082-104
XO.1	1N27-0024 @	20" PIPE TO VALVE F032B	UT, PT	2	082-104
XO.1	1N27-0024A @	20" PIPE TO PIPE	UT, PT	2	082-104
XO.1	1N27-0025 @	20" X 20" X 14" TEE TO 20" PIPE	UT, PT	NS**	082-104
XO.1	1N27-0025A @	20" X 20" X 24" TEE TO 14" X 12" REDUCER	UT, PT	3	082-104
XO.1	1N27-0026 @	20" PIPE TO 20" X 20" X 14" TEE	UT, PT	3	082-104
XO.1	1N27-0027 @	20" VALVE F065B TO PIPE	UT, PT	3	082-104
XO.1	1N27-0028 @	20" PIPE TO VALVE F065B	UT, PT	2	082-104
XO.1	1N27-0071 @	1 1/2" VALVE F740 TO PIPE	PT	1	971-102
XO.1	1N27-0072 @	1 1/2" PIPE TO ELBOW	PT	3	971-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-B					
X0.1	1N27-0073 @	1 1/2" ELBOW TO PIPE	PT	3	971-102
X0.1	1N27-0074 @	1 1/2" PIPE TO ELBOW	PT	2	971-102
X0.1	1N27-0075 @	1 1/2" ELBOW TO PIPE	PT	2	971-102
X0.1	1N27-0076 @	1 1/2" PIPE TO CROSS	PT	1	971-102
X0.1	1N27-0077 @	1 1/2" CROSS TO 1 1/2" X 1" REDUCER	PT	1	971-102
X0.1	1N27-0078 @	1 1/2" CROSS TO 1 1/2" X 1" REDUCER	PT	1	971-102
X0.1	1N27-0079 @	1 1/2" CROSS TO PIPE	PT	3	971-102
X0.1	1N27-0080 @	1 1/2" PIPE TO TEE	PT	3	971-102
X0.1	1N27-0081 @	1 1/2" TEE TO 1 1/2" X 1" REDUCER	PT	2	971-102
X0.1	1N27-0082 @	1 1/2" TEE TO 1 1/2" X 1" REDUCER	PT	3	971-102
X0.1	1N27-0083 @	1 1/2" VALVE F737 TO PIPE	PT	1	971-101
X0.1	1N27-0084 @	1 1/2" PIPE TO CROSS	PT	3	971-101
X0.1	1N27-0085 @	1 1/2" CROSS TO PIPE	PT	1	971-101
X0.1	1N27-0086 @	1 1/2" TEE TO 1 1/2" X 1" REDUCER	PT	2	971-101
X0.1	1N27-0087 @	1 1/2" CROSS TO 1 1/2" X 1" REDUCER	PT	2	971-101
X0.1	1N27-0088 @	1 1/2" PIPE TO TEE	PT	2	971-101
X0.1	1N27-0089 @	1 1/2" TEE TO 1 1/2" X 1" REDUCER	PT	2	971-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISJ ISO SS- IS-</u>
EXAMINATION CATEGORY: X-B					
X0.1	1N27-0090 @	1 1/2" TEE TO 1 1/2" X 1" REDUCER	PT	1	971-101
* - These Category X-B welds are scheduled for examination in Section 2.0, Category B-J.					
** - These Category X-B welds are scheduled for examination in Section 3.0, Category C-F-2.					
EXAMINATION CATEGORY: X-C					
X0.6	1B13-N4A-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
X0.6	1B13-N4B-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
X0.6	1B13-N4C-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
X0.6	1B13-N4D-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
X0.6	1B13-N4E-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
X0.6	1B13-N4F-INT	FEEDWATER NOZZLE INTERIOR SURFACES. NUREG-0619	PT	SR	006-108
EXAMINATION CATEGORY: X-D					
X0.7	1B33-C001A-PS	RECIRCULATION PUMP C001A, PUMP SHAFT CRACKING EXAM	UT	3	602-102
X0.7	1B33-C001B-PS	RECIRCULATION PUMP C001B, PUMP SHAFT CRACKING EXAM	UT	3	602-104
EXAMINATION CATEGORY: X-E					
X0.1	1B21-P122-WA @	PEN. P122 FLUED HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	2	605-109
X0.1	1B21-P124-WA @	PEN. P124 FLUED HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	3	605-107
X0.1	1B21-P415-WA @	PEN. P415 FLUED HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	1	605-110

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-E					
X0.1	1B21-P416-WA @	PEN. P416 FLUED HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	2	605-108
X0.1	1N27-P121-WA @	PEN. P121 FLUEL HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	1	082-101
X0.1	1N27-P414-WA @	PEN. P414 FLUED HEAD FITTING TO PROCESS PIPE ATTACHMENT WELD	UT	3	082-104
EXAMINATION CATEGORY: X-F					
X0.8	1B13-AE-SUR	NO. 4 SHELL RING TO SHELL FLANGE CIRCUMFERENTIAL SEAM USAR SECTION 5.3.1	MT	1,3	006-102
EXAMINATION CATEGORY: X-G					
X0.12	1B13-N1A-KB	RECIRC. OUTLET NOZZLE N1A TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N1B-KB	RECIRC. INLET NOZZLE N1B TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2A-KB	RECIRC. INLET NOZZLE N2A TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2B-KB	RECIRC. INLET NOZZLE N2B TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2C-KB	RECIRC. INLET NOZZLE N2C TO SAFE-END	UT	2,3	006-107
X0.12	1B13-N2D-KB	RECIRC. INLET NOZZLE N2D TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2E-KB	RECIRC. INLET NOZZLE N2E TO SAFE-ND	UT	1,2	006-107
X0.12	1B13-N2F-KB	RECIRC. INLET NOZZLE N2F TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2G-KB	RECIRC. INLET NOZZLE N2G TO SAFE-END	UT	1,2	006-107
X0.12	1B13-N2H-KB	RECIRC. INLET NOZZLE N2H TO SAFE-END	UT	1,2	006-107

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
EXAMINATION CATEGORY: X-G					
X0.12	1B13-N2J-KB	RECIRC. INLET NOZZLE N2J TO SAFE-END	UT	2,3	006-107
X0.12	1B13-N2K-KB	RECIRC. INLET NOZZLE N2K TO SAFE-END	UT	2,3	006-108
X0.12	1B13-N4A-KB	FEEDWATER NOZZLE N4A TO SAFE-END	UT	1,2	006-108
X0.12	1B13-N4B-KB	FEEDWATER NOZZLE N4B TO SAFE-END	UT	1,2	006-108
X0.13	1B13-N4C-KB	FEEDWATER NOZZLE N4C TO SAFE-END	UT	2,3	006-108
X0.12	1B13-N4D-KB	FEEDWATER NOZZLE N4D TO SAFE-END	UT	1,2	006-108
X0.13	1B13-N4E-KB	FEEDWATER NOZZLE N4E TO SAFE-END	UT	1,2	006-108
X0.12	1B13-N4F-KB	FEEDWATER NOZZLE N4F TO SAFE-END	UT	2,3	006-108
X0.12	1B13-N5A-KB	LOW PRES. CORE SPRAY NOZZLE TO SAFE-END	UT	1,2	006-109
X0.12	1B13-N5B-KB	HIGH PRES. CORE SPRAY NOZZLE TO SAFE-END	UT	1,2	006-109
X0.12	1B13-N6A-KB	RHR NOZZLE N6A TO SAFE-END	UT	1,2	006-109
X0.12	1B13-N6B-KB	RHR NOZZLE N6B TO SAFE-END	UT	1,2	006-109
X0.12	1B13-N6C-KB	RHR NOZZLE N6C TO SAFE-END	UT	2,3	006-109
X0.12	1B13-N9A-KB	JET PUMP INSTRUMENT NOZZLE N9A TO SAFE-END	UT	2,3	006-106
X0.12	1B13-N9A-KC	JET PUMP INSTRUMENT NOZZLE SAFE-END TO PENETRATION SEAL	UT	2,3	006-106
X0.12	1B13-N9B-KB	JET PUMP INSTRUMENT NOZZLE N9B TO SAFE-END	UT	2,3	006-106
X0.12	1B13-N9B-KC	JET PUMP INSTRUMENT NOZZLE SAFE-END TO PENETRATION SEAL	UT	2,3	006-106

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.9	1B33-0002	22" NOZZLE NIA SAFE-END (CRC)	UT, PT	NS*	602-102
X0.10	1B33-0002-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003	22" ELBOW TO PIPE	UT, PT	NS*	602-102
X0.10	1B33-0003-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003A	22" ELBOW TO PIPE	UT, PT	NS*	602-102
X0.10	1B33-0003A-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003A-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0003A-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.9	1B33-0004	22" PIPE TO PIPE (CRC)	UT, PT	NS	602-102
X0.10	1B33-0004-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0004-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0005	22" PIPE TO ELBOW	UT, PT	NS	602-102
X0.10	1B33-0005-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0005-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0005-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.9	1B33-0006	22" ELBOW TO VALVE, B33-F023A (CRC)	UT, PT	NS	602-102

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.10	1B33-0006-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0006-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS	602-102
X0.9	1B33-0007	VALVE B33-F023A TO 22" PIPE (CRC)	UT, PT	NS	602-102
X0.10	1B33-0007-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0008	22" PIPE TO 22" X 4" CONTOUR NOZ.	UT, PT	NS*	602-102
X0.10	1B33-0008A	22" PIPE TO 22" X 4" SWEEPolet	UT, PT	NS	602-102
X0.10	1B33-0009	22" X 4" CONTOUR NOZ. TO 4" PIPE	UT, PT	NS*	602-102
X0.10	1B33-0009-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0010	4" PIPE TO FLANGE	UT, PT	NS	602-102
X0.10	1B33-0010-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0011	22" PIPE TO ELBOW	UT, PT	NS	602-102
X0.10	1B33-0011-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0011-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0011-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.9	1B33-0012	22" ELBOW TO PUMP C001A CASING (CRC)	UT, PT	NS*	602-102
X0.10	1B33-0012-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0012-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.9	1B33-0014	PUMP C001A CASING TO 24" PIPE (CRC)	UT, PT	NS*	602-102

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Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD	API ISO
		EXAMINATION CATEGORY: X-G			
X0.10	1B33-0014-D	PIPE SEAM, DOWNSTREAM	PT, PT	NS*	602-102
X0.10	1B33-0015	24" PIPE TO 24" X 4" CONTOUR NOZ.	UT, PT	NS*	602-102
X0.10	1E33-0016	24" X 4" CONTOUR NOZ. TO 4" PIPE	UT, PT	NS	602-102
X0.10	1B33-0016-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0017	4" PIPE TO FLANGE	UT, PT	NS	602-102
X0.10	1B33-0017-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.5	1B53-0018	24" PIPE TO VALVE B33-F060A (CRC)	UT, PT	NS	602-102
X0.10	1B33-0018-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.9	1B33-0019	VALVE B33-F060A TO 24" PIPE (CRC)	UT, PT	NS	602-102
X0.10	1B33-0019-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0020	24" PIPE TO ELBOW	UT, PT	NS*	602-102
X0.10	1B33-0020-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0020-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1B33-0020-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS*	602-102
X0.10	1E33-0021	24" ELBOW TO PIPE	UT, PT	NS	602-102
X0.10	1B33-0021-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0021-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0021-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.9	1B33-0022	24" PIPE TO VALVE B33-F067A (CRC)	UT, PT	NS	602-102
X0.10	1B33-0022-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.9	1B33-0023	VALVE B33-F067A TO 24" PIPE (CRC)	UT, PT	NS	602-102
X0.10	1B33-0023-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0024	24" PIPE TO ELBOW	UT, PT	NS	602-102
X0.10	1B33-0024-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0024-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0024-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.10	1B33-0025	24" ELBOW TO PIPE	UT, PT	NS	602-102
X0.10	1B33-0025-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0025-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS	602-102
X0.10	1B33-0025-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-102
X0.9	1B33-0026	24" PIPE TO 24" X 16" CROSS (CRC)	UT, PT	NS	602-102
X0.10	1B33-0026-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-102
X0.9	1B33-0027	16" PIPE CAP TO PIPE (CRC)	UT, PT	NS*	602-102
X0.10	1B33-0027-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-101
X0.10	1B33-0028	16" PIPE TO 16" X 12" SWEEPOLET	UT, PT	NS*	602-101
X0.10	1B33-0029	16" PIPE TO 16" X 12" SWEEPOLET	UT, PT	NS*	602-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.10	1B33-0030	16" PIPE TO 24" X 16" CROSS	UT, PT		602-101
X0.10	1B33-0030-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.9	1B33-0031	24" X 16" CROSS TO 16" PIPE (CRC)	UT, PT	NS	602-101
X0.10	1B33-0031-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0032	16" PIPE TO 16" X 12" SWEEPolet	UT, PT	NS*	602-101
X0.10	1B33-0033	16" PIPE TO 16" X 12" SWEEPolet	UT, PT	NS*	602-101
X0.9	1B33-0034	16" PIPE TO CAP (CRC)	UT, PT	NS	602-101
X0.10	1B33-0034-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.9	1B33-0035	16" X 12" SWEEPolet TO 12" PIPE (CRC)	UT, PT	NS*	602-101
X0.10	1B33-0035-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-101
X0.10	1B33-0036	12" PIPE TO ELBOW	UT, PT	NS	602-101
X0.10	1B33-0036-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B33-0036-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0037	12" ELBOW TO PIPE	UT, PT	NS*	602-101
X0.10	1B33-0037-U	ELBOW SEAM, UPSTREAM	UT, PT	NS*	602-101
X0.10	1B33-0037-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-101
X0.9	1B33-0038	12" PIPE TO NOZZLE N2A SAFE-END (CRC)	UT, PT	NS*	602-101
X0.10	1B33-0038-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-101

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Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.9	1B33-0040	16" X 12" SWEEPOLET TO 12" PIPE (CRC)	UT, PT	NS	602-101
X0.10	1B33-0040-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0041	12" PIPE TO ELBOW	UT, PT	NS	602-101
X0.10	1B33-0041-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B33-0041-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0042	12" ELBOW TO PIPE	UT, PT	NS+	602-101
X0.10	1B33-0042-U	ELBOW SEAM, UPSTREAM	UT, PT	NS+	602-101
X0.10	1B33-0042-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS+	602-101
X0.9	1B33-0043	12" PIPE TO NOZZLE N2B SAFE-END (CRC)	UT, PT	NS+	602-101
X0.10	1B33-0043-U	PIPE SEAM, UPSTREAM	UT, PT	NS+	602-101
X0.10	1B33-0045	24" X 16" CROSS TO 24" X 12" REDUCER	UT, PT	NS+	602-101
X0.9	1B33-0046	24" X 12" REDUCER TO 12" PIPE (CRC)	UT, PT	NS	602-101
X0.10	1B33-0046-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0047	12" PIPE TO ELBOW	UT, PT	NS	602-101
X0.10	1B33-0047-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B33-0047-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0048	12" ELBOW TO PIPE	UT, PT	NS	602-101
X0.10	1B33-0048-U	ELBOW SEAM, UPSTREAM	UT, PT	NS	602-101

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISS</u>
		EXAMINATION CATEGORY: X-G			
X0.10	1B33-0048-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.9	1B33-0049	12" PIPE TO NOZZLE NZC SAFE-END (CRC)	UT, PT	NS*	602-101
X0.10	1B33-0049-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-101
X0.9	1B33-0051	16" X 12" SWEEPolet TO 12" PIPE (CRC)	UT, PT	NS	602-101
X0.10	1B33-0051-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0052	12" PIPE TO ELBOW	UT, PT	NS	602-101
X0.10	1B33-0052-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B3J-0052-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.10	1B33-0053	12" ELBOW TO PIPE	UT, PT	NS	602-101
X0.10	1B33-0053-U	ELBOW SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B33-0053-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-101
X0.9	1B33-0054	12" PIPE TO NOZZLE NZD SAFE-END (CRC)	UT, PT	NS*	602-101
X0.10	1B33-0054-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-101
X0.9	1B33-0056	16" X 12" SWEEPolet TO 12" PIPE (CRC)	UT, PT	NS*	602-101
X0.10	1B33-0056-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-101
X0.10	1B33-0057	12" PIPE TO ELBOW	UT, PT	NS	602-101
X0.10	1B33-0057-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-101
X0.10	1B33-0057-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-101

Inservice Examination Interval Listing (Cont.)

FLER NO.	MARK NO.	COMPONENT DESCRIPTION	EXAMINATION CATEGORY: X-G	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305-
X0.10	1B33-0058	12" ELBOW TO PIPE		UT, PT	NS*	602-101
X0.10	1B33-0058-U	ELBOW SEAM, UPSTREAM		UT, PT	NS*	602-101
X0.10	1P33-0058-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS*	602-101
X0.9	1B33-0059	12" PIPE TO NOZZLE N2E SAFE-END (CRC)		UT, PT	NS*	602-101
X0.10	1B33-0059-U	PIPE SEAM, UPSTREAM		UT, PT	NS*	602-101
X0.9	1B33-0062	22" NOZZLE N1B SAFE-END TO PIPE (CRC)		UT, PT	NS*	602-104
X0.10	1B33-0062-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063	22" PIPE TO ELBOW		UT, PT	NS*	602-104
X0.10	1B33-0063-U	PIPE SEAM, UPSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063-D1	ELBOW SHORT SEAM, DOWNSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063-D2	ELBOW LONG SEAM, DOWNSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063A	22" ELBOW TO PIPE		UT, PT	NS*	602-104
X0.10	1B33-0063A-U1	ELBOW SHORT SEAM, UPSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063A-U2	ELBOW LONG SEAM, UPSTREAM		UT, PT	NS*	602-104
X0.10	1B33-0063A-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS*	602-104
X0.9	1B33-0064	22" PIPE TO PIPE (CRC)		UT, PT	NS	602-104
X0.10	1B33-0064-U	PIPE SEAM, UPSTREAM		UT, PT	NS	602-104
X0.10	1P33-0064-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS	602-104

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305
EXAMINATION CATEGORY: X-G					
X0.10	1B33-0065	22" PIPE TO 22" X 22" X 20" TEE	UT, PT	NS	602-104
X0.10	1B33-0065-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0066	22" X 22" X 20" TEE TO 22" PIPE	UT, PT	NS	602-104
X0.10	1B33-0066-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0067	22" PIPE TO ELBOW	UT, PT	NS	602-104
X0.10	1B33-0067-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0067-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0067-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.9	1B33-0068	22" ELBOW TO VALVE B33-F023B (CBC)	UT, PT	NS	602-104
X0.10	1B33-0068-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0068-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS	602-104
X0.9	1B33-0069	VALVE B33-F023B TO 22" PIPE (CBC)	UT, PT	NS	602-104
X0.10	1B33-0069-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0070	22" PIPE TO 22" X 4" CONTOUR NOZ.	UT, PT	NS	602-104
X0.10	1B33-0070A	22" PIPE TO 22" X 4" SWEEPolet	UT, PT	NS	602-104
X0.10	1B33-0071	22" X 4" CONTOUR NOZ. TO 4" PIPE	UT, PT	NS*	602-104
X0.10	1B33-0071-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-104
X0.10	1B33-0072	4" PIPE TO FLANGE	UT, PT	NS	602-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>USF ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
X0.10	1B33-0072-B	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0073	22" PIPE TO ELBOW	UT, PT	NS	602-104
X0.10	1B33-0073-B	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0073-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0073-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.9	1B33-0074	22" ELBOW TO PUMP CO01B CASING (CRC)	UT, PT	NS*	602-104
X0.10	1B33-0074-B1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS*	602-104
X0.10	1B33-0074-B2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS*	602-104
X0.9	1B33-0076	PUMP CO01B CASING TO 24" PIPE (CRC)	UT, PT	NS*	602-104
X0.10	1B33-0076-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-104
X0.10	1B33-0077	24" PIPE TO 24" X 4" CONTOUR NOZ.	UT, PT	NS	602-104
X0.10	1B33-0078	24" X 4" CONTOUR NOZ. TO 4" PIPE	UT, PT	NS	602-104
X0.10	1B33-0078-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0079	4" PIPE TG FLANGE	UT, PT	NS	602-104
X0.10	1B33-0079-B	PIPE SEAM, U-STREAM	UT, PT	NS	602-104
X0.9	1B33-0080	24" PIPE TO VALVE B33-F060B (CRC)	UT, PT	NS	602-104
X0.10	1B33-0080-B	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.9	1B33-0081	VALVE B33-F060B TO 24" PIPE (CRC)	UT, PT	NS*	602-104

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO 55-305</u>
		EXAMINATION CATEGORY: X-G			
X0.10	1B33-0081-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-104
X0.10	1B33-0082	24" PIPE TO ELBOW	UT, FT	NS	602-104
X0.10	1B33-0082-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0082-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0082-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0083	24" ELBOW TO PIPE	UT, PT	NS	602-104
X0.10	1B33-0083-U1	ELBOW SHORT SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0083-U2	ELBOW LONG SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0083-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.9	1B33-0084	24" PIPE TO VALVE B33-F067B (CRC)	UT, PT	NS	602-104
X0.10	1B33-0084-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.9	1B33-0085	VALVE B33-F067B TO 24" PIPE (CRC)	UT, PT	NS	602-104
X0.10	1B33-0085-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0086	24" PIPE TO ELBOW	UT, FT	NS	602-104
X0.10	1B33-0086-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-104
X0.10	1B33-0086-D1	ELBOW SHORT SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0086-D2	ELBOW LONG SEAM, DOWNSTREAM	UT, PT	NS	602-104
X0.10	1B33-0087	24" ELBOW TO PIPE	UT, PT	NS	602-104

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAMINATION CATEGORY	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-304
X0.10	1B33-0087-U1	ELBOW SHORT SEAM, UPSTREAM	X-G	UT, PT	NS	602-104
X0.10	1B33-0087-U2	ELBOW LONG SEAM, UPSTREAM	X-G	UT, PT	NS	602-104
X0.10	1B33-0087-D	PIPE SEAM, DOWNSTREAM	X-G	UT, PT	NS	602-104
X0.9	1B33-0088	24" PIPE TO 24" X 16" CROSS (CRC)	X-G	UT, PT	NS*	602-104
X0.10	1B33-0088-U	PIPE SEAM, UPSTREAM	X-G	UT, PT	NS*	602-104
X0.9	1B33-0089	16" PIPE CAP TO PIPE (CRC)	X-G	UT, PT	NS	602-103
X0.10	1B33-0089-U	PIPE SEAM, UPSTREAM	X-G	UT, PT	NS	602-103
X0.10	1B33-0090	16" PIPE TO 16" X 12" SWEEPolet	X-G	UT, PT	NS*	602-103
X0.10	1B33-0091	15" PIPE TO 16" X 12" SWEEPolet	X-G	UT, PT	NS*	602-103
X0.10	1B33-0092	16" PIPE TO 24" X 16" CROSS	X-G	UT, PT	NS	602-103
X0.10	1B33-0092-D	PIPE SEAM, DOWNSTREAM	X-G	UT, PT	NS	602-103
X0.9	1B33-0093	24" X 16" CROSS TO 16" PIPE (CRC)	X-G	UT, PT	NS	602-103
X0.10	1B33-0093-D	PIPE SEAM, DOWNSTREAM	X-G	UT, PT	NS	602-103
X0.10	1B33-0094	16" PIPE TO 16" X 12" SWEEPolet	X-G	UT, PT	NS*	602-103
X0.10	1B33-0095	16" PIPE TO 16" X 12" SWEEPolet	X-G	UT, PT	NS*	602-103
X0.9	1B33-0096	16" PIPE TO CAP (CRC)	X-G	UT, PT	NS	602-103
X0.10	1B33-0096-U	PIPE SEAM, UPSTREAM	X-G	UT, PT	NS	602-103
X0.9	1B33-0097	16" X 12" SWEEPolet TO 12" PIPE (CRC)	X-G	UT, PT	NS*	602-103

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305
EXAMINATION CATEGORY: X-G					
X0.10	1B33-0097-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-103
X0.10	1B33-0098	12" PIPE TO ELBOW	UT, PT	NS	602-103
X0.10	1B33-0098-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-103
X0.10	1B33-0098-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-103
X0.10	1B33-0099	12" ELBOW TO PIPE	UT, PT	NS*	602-103
X0.10	1B33-0099-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-103
X0.10	1B33-0099-U	ELBOW SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1B33-0100	12" PIPE TO NOZZLE N2F SAFE-END (CRC)	UT, PT	NS*	602-103
X0.10	1B33-0100-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1B33-0102	16" X 12" SWEEPolet TO 12" PIPE (CRC)	UT, PT	NS	602-103
X0.10	1B33-0102-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-103
X0.10	1B33-0103	12" PIPE TO ELBOW	UT, PT	NS	602-103
X0.10	1B33-0103-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-103
X0.10	1B33-0103-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-103
X0.10	1B33-0104	12" ELBOW TO PIPE	UT, PT	NS*	602-103
X0.10	1B33-0104-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-103
X0.10	1B33-0104-U	ELBOW SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1B33-0105	12" PIPE TO NOZZLE N2G SAFE-END (CRC)	UT, PT	NS*	602-103

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAMINATION CATEGORY:	EXAM METHOD	PERIOD SCHED.	ISI ISG SS-305-
			X-G			
X0.10	1B33-0105-U	PIPE SEAM, UPSTREAM		UT, PT	NS*	602-103
X0.10	1B33-0107	24" X 16" CROSS TO 24" X 12" REINER		UT, PT	NS*	602-103
X0.9	1B33-0108	24" X 12" REDUCER TO 12" PIPE (CRC)		UT, PT	NS	602-103
X0.10	1B33-0108-F	PIPE SEAM, DOWNSTREAM		UT, PT	NS	602-102
X0.10	1B33-0109	12" PIPE TO ELBOW		UT, PT	NS	602-103
X0.10	1B33-0109-D	ELBOW SEAM, DOWNSTREAM		UT, PT	NS	602-103
X0.10	1B33-0109-U	PIPE SEAM, UPSTREAM		UT, PT	NS	602-103
X0.10	1B33-0110	12" ELBOW TO PIPE		UT, PT	NS	6-12-103
X0.10	1B33-0110-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS	602-103
X0.10	1B33-0110-U	ELBOW SEAM, UPSTREAM		UT, PT	NS	602-103
X0.9	1B33-0111	12" PIPE TO NOZZLE N2H SAFE-END (CRC)		UT, PT	NS*	602-103
X0.10	1B33-0111-U	PIPE SEAM, UPSTREAM		UT, PT	NS*	602-103
X0.9	1B33-0113	16" X 12" SWEEPolet TO 12" PIPE (CRC)		UT, PT	NS	602-103
X0.10	1B33-0113-D	PIPE SEAM, DOWNSTREAM		UT, PT	NS	602-102
X0.10	1B33-0114	12" PIPE TO ELBOW		UT, PT	NS	602-103
X0.10	1B33-0114-D	ELBOW SEAM, DOWNSTREAM		UT, PT	NS	602-103
X0.9	1B33-0114-U	PIPE SEAM, UPSTREAM		UT, PT	NS	602-103
X0.10	1B33-0115	12" ELBOW TO PIPE		UT, PT	NS	602-163

Inservice Examination Interval Listing (Cont.)

ITEM NO.	MARK NO.	COMPONENT DESCRIPTION	EXAM METHOD	PERIOD SCHED.	ISI ISO SS-305
		EXAMINATION CATEGORY: X-G			
X0.10	1B33-0115-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS	602-103
X0.10	1B33-0115-U	ELBOW SEAM, UPSTREAM	UT, PT	NS	602-103
X0.9	1B33-0116	12" PIPE TO NOZZLE NZJ SAFE-END (CRC)	UT, PT	NS*	602-103
X0.10	1B33-0116-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1B33-0118	16" X 12" SWEEPOLET TO 12" PIPE (CRC)	UT, FT	NS*	602-103
X0.10	1B33-0118-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-103
X0.10	1B33-0119	12" PIPE TO ELPOW	UT, PT	NS	602-103
X0.10	1B33-0119-D	ELBOW SEAM, DOWNSTREAM	UT, PT	NS	602-103
X0.10	1B33-0119-U	PIPE SEAM, UPSTREAM	UT, PT	NS	602-103
X0.10	1B33-0120	12" ELBOW TO PIPE	UT, PT	NS*	602-103
X0.10	1B33-012C-D	PIPE SEAM, DOWNSTREAM	UT, PT	NS*	602-103
X0.10	1B33-0120-U	ELBOW SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1B33-0121	12" PIPE TO NOZZLE NZK SAFE-END (CRC)	UT, PT	NS*	602-103
X0.10	1B33-0121-U	PIPE SEAM, UPSTREAM	UT, PT	NS*	602-103
X0.9	1G33-0087	4" X 22" SWEEPOLET TO 4" PIPE B7-METALLIC WELD, SS HAS CRC	UT, PT	NS**	671-305

Inservice Examination Interval Listing (Cont.)

<u>ITEM NO.</u>	<u>MARK NO.</u>	<u>COMPONENT DESCRIPTION</u>	<u>EXAM METHOD</u>	<u>PERIOD SCHED.</u>	<u>ISI ISO SS-305-</u>
EXAMINATION CATEGORY: X-G					
XO.9	1G33-0113	4" X 22" SWEEPolet TO 4" PIPE BI-METALLIC WELD, SS HAS CRC	UT, PT	NS**	671-107
XO.9	1E12-0001	22" X 22" X 20" TEE TO 20" PIPE. (CRC ON TEE ONLY)	UT, PT	NS*	642-118

\*These Category X-G welds are scheduled for examination in Section 2.0, Category B-J

\*\*These Category X-G welds are scheduled for examination in Section 2.0, Category B-F

## 7.0 SNUBBERS

Snubbers are devices (component supports) which provide restraint to a component or system during a sudden application of force but allows for freedom of motion during thermal movement. The ASME Code and plant technical specification identify snubber examination boundaries differently. The plant technical specification identifies snubber examination boundaries pin to pin. The ASME Code identifies snubber examination boundaries as pipe end attachment to structural support end attachment.

### 7.1 Terminology

#### 7.1.1 Functional Adequacy

A visual examination to confirm operability by verification of settings or freedom of motion.

#### 7.1.2 Functional Testing

In-place or bench test exercising a snubber while measuring and observing required parameters.

#### 7.1.3 Hydraulic Snubber

A device which provides restraint to a component or system during a sudden application of force in which the load is transmitted through a mechanism which contains hydraulic fluid. The device shall allow essentially free motion during thermal movement.

#### 7.1.4 Inaccessible Snubber

Those snubbers that are in a high radiation area or other locations/conditions that would render it impractical for the snubbers to be examined during reactor operation without compromising personnel safety.

#### 7.1.5 Inspection

Denotes the performance of a visual observation by an inspector qualified by the owner or his agent in accordance with the guidelines of SNT-TC-1A (edition identified by the owner) or ANSI N45.2.6-1978. Applicable to T/S Snubbers only.

#### 7.1.6 Mechanical Snubber

A device which provides restraint to a component or system during a sudden application of force in which the load is transmitted entirely through mechanical parts. The device shall allow essentially free motion during thermal movement.

### 7.1.7 Transient Event

An unexpected or potential damaging occurrence which was determined from review of operating data or during a visual inspection/examination.

### 7.1.8 Type

A snubber of the same design (mechanical or hydraulic) and manufacturer.

## 7.2 Exemption

Snubbers are required to satisfy both the technical specifications and ASME Code scope requirements, therefore two exemption criteria exist.

### 1. Technical Specifications (T/S)

Snubbers not attached to safety class systems (1, 2, or 3), nor considered in the design as affecting a safety class system, are exempt from examination/inspection and testing requirement.

### 2. ASME Code

Snubbers selected for code examinations shall be the supports of those components that are required to be examined under IWB, IWC, and IWD during the first inspection interval.

## 7.3 Examination Selection Process

Snubber examination/inspection selections are different for both technical specifications and the ASME Code. The selection process is as follows:

### 1. Technical Specifications (T/S)

All T/S snubbers shall be examined after four months but within ten months of commencing power operation with a 10% random sample during the first refueling outage and at 18 months  $\pm 25\%$  unless failures are identified. T/S snubbers shall be examined prior to and after performance of repairs, replacement or testing. Also, snubbers attached to sections of systems that have experienced an unexpected or potentially damaging transient (accessible systems within 72 hours and inaccessible systems within six months).

### 2. ASME Code

All code snubbers shall be examined within each interval and each interval shall use a subdivision of periods to determine examination percentage requirements. Reference code inspection and program requirements.

#### 7.4 Additional Examination Requirements

Additional snubber examination/inspection requirements are different for both technical specifications and the ASME Code. The selection process is as follows:

##### 1. Technical Specifications (T/S)

The number of inoperable T/S snubbers of each type shall determine the subsequent visual inspection period as provided within technical specifications. Upon establishing the new inspection period, each type of snubber shall not have the inspection period lengthened more than one step at a time unless a generic problem has been identified and corrected. In the event of generic problem identification and correction, the interval may be lengthened one step the first time and two steps thereafter if no inoperable snubbers of that type are found.

##### 2. Code

The examination results of component supports which require corrective measures, due to exceeding the allowable acceptance standard, shall require completion of the following actions: examination of component supports immediately adjacent to those requiring corrective action and examination of additional supports equal in number and similar in type, design and function to those initially examined. Also, if any additional examinations require corrective measures, the remaining supports within the system of the same type, design, and function shall be examined.

#### 7.5 Successive Examination Requirements

Snubber examination/inspection requirements are different for both technical specification and code.

##### 1. Technical Specifications (T/S)

After all snubbers within a category (7.8) have been examined, the category shall be skipped one sample plan. After skipping one sample plan all T/S snubbers in that category shall be available for random sampling.

##### 2. Code

Snubber examination sequence is established by the first interval. Examinations should be repeated during successive intervals in the same sequence as the first interval, to the extent practical. Also, component supports (snubbers) requiring corrective measures shall be re-examined during the next inspection period. Re-examinations which do not require corrective measures may revert back to the original examination schedule.

## 7.6 Testing Requirements

Snubber testing requirements for technical specification and code are made to be identical per a relief request. This relief request identifies the difference and matches them up. The testing requirements utilize one of three sample plans. The three plans are: 1) at least 10% of the total of each type of snubber, 2) a representative sample of each type of snubber to comply with a testing figure (reference #IR-023), and 3) an initial representative sample of 55 snubbers.

## 7.7 Additional Testing Requirements

Additional testing requirements, upon snubber testing failure, shall be established in accordance with the sample plan used (i.e., sample plan provided to the NRC).

1. At least 10% of the total of each type to be tested.
  - a. Each failure requires additional 5% of the same type to be tested until no further failures occur or all snubbers of that type have been functionally tested.
2. A representative sample tested in accordance with Perry Unit 1 Technical Specification Figure No. 4.7.4-1.
  - a. Any time test sample of a type fails on or above "reject" line all snubbers of that type shall be functionally tested.
  - b. If test sample falls within continue testing range, additional snubbers of that type shall be tested until plot falls on or below "accept" line.
  - c. Terminate testing if all the snubbers of that type have been tested.
3. A representative sample of 55 snubbers of each type to be tested.
  - a. Each snubber type that fails another sample of at least one half the size of the initial sample shall be tested. When sample plan falls on or below the "Accept" line, testing of that type of snubber may be terminated.
    - 1) Accept line follows evaluation  $N = 55(1 + C/2)$  where  $N$  = number of snubbers of that type tested and  $C$  = number of failed snubber.
  - b. Terminate testing if all the snubbers of that type have been tested.

## 7.8 Snubber Categorization

Every snubber is given a unique category classification. The categorization is to allow for failure analysis and to ensure the random sampling application covers all types of snubbers. The categorization is as follows:

First Digit:	Type - 1) Hydraulic or 2) Mechanical
Second Digit:	ALARA - 1) Accessible or 2) Inaccessible
Third Digit:	Size for PSA Mechanical/Phoenix Hydraulic Snubbers - 1) PSA 1/4/EP 1/4, 2) PSA 1/2/EP 1/2, 3) PSA 1/EP 1, 4) PSA 3/EP 3, 5) PSA 10/EP 10, 6) PSA 35/EP 35, 7) PSA 100/EP 100
Third Digit:	Size for Hydraulic Snubbers - 1) 20 KIP, 2) 30 KIP, 3) 50 KIP, 4) 70 KIP, 5) 100 KIP
Fourth Digit:	System Characteristic - 1) Inservice or 2) Functional
Fifth Digit:	Operating Temperature - 1) <200°F or 2) ≥200°F
Sixth Digit:	Vibration - 1) <20 mils or 2) ≥20 mils

## 7.9 Relief Requests

When compliance to examination requirements are not achievable, relief from examinations are requested. The table listed below identifies those Inservice Relief Requests (IR) which have been filed with the NRC for snubbers.

IR-023 R-0

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-023

I. Identification of Components

All safety-related hydraulic and mechanical snubbers.

II. ASME B&PV Section XI Requirements

IWF-5400(b) A representative sample\* of 10% of the total number of nonexempt (IWF-1230) snubbers whose load rating is less than 50 kips shall be tested with each inspection period. Each representative sample shall consist of previously untested snubbers. After all nonexempt snubbers in the plant have been tested, the tests shall be repeated taking the same snubber (or their replacement) in the same sequence as in the original tests. These tests shall verify:

- (1) during low velocity displacements, the specified maximum drag or free movement force will initiate motion of the snubber rod in both tension and compression;
- (2) activation (restraining action) is achieved within the specified range of velocity or acceleration in both tension and compression;
- (3) snubber bleed, or release rate, where required, is within the specified range in compression or tension. For units specifically required not to displace under continuous load, the ability of the snubber to withstand load without displacement shall be demonstrated.

IWF-5400(c) Snubbers that fail the inservice tests of (b) above shall be repaired in accordance with IWF-4000 and retested. An additional sample of 10% of the total number of snubbers shall also be tested at that time. Additional sample testing shall be continued until all units within the sample have met the requirements of (b) above.

\*A representative sample shall include snubbers from various locations, taking into consideration service and environment.

III. Relief Request

Relief is requested from the required method of sampling in IWF-5400(b) and (c).

Perry Nuclear Power Plant Unit 1  
RELIEF REQUEST #IR-023

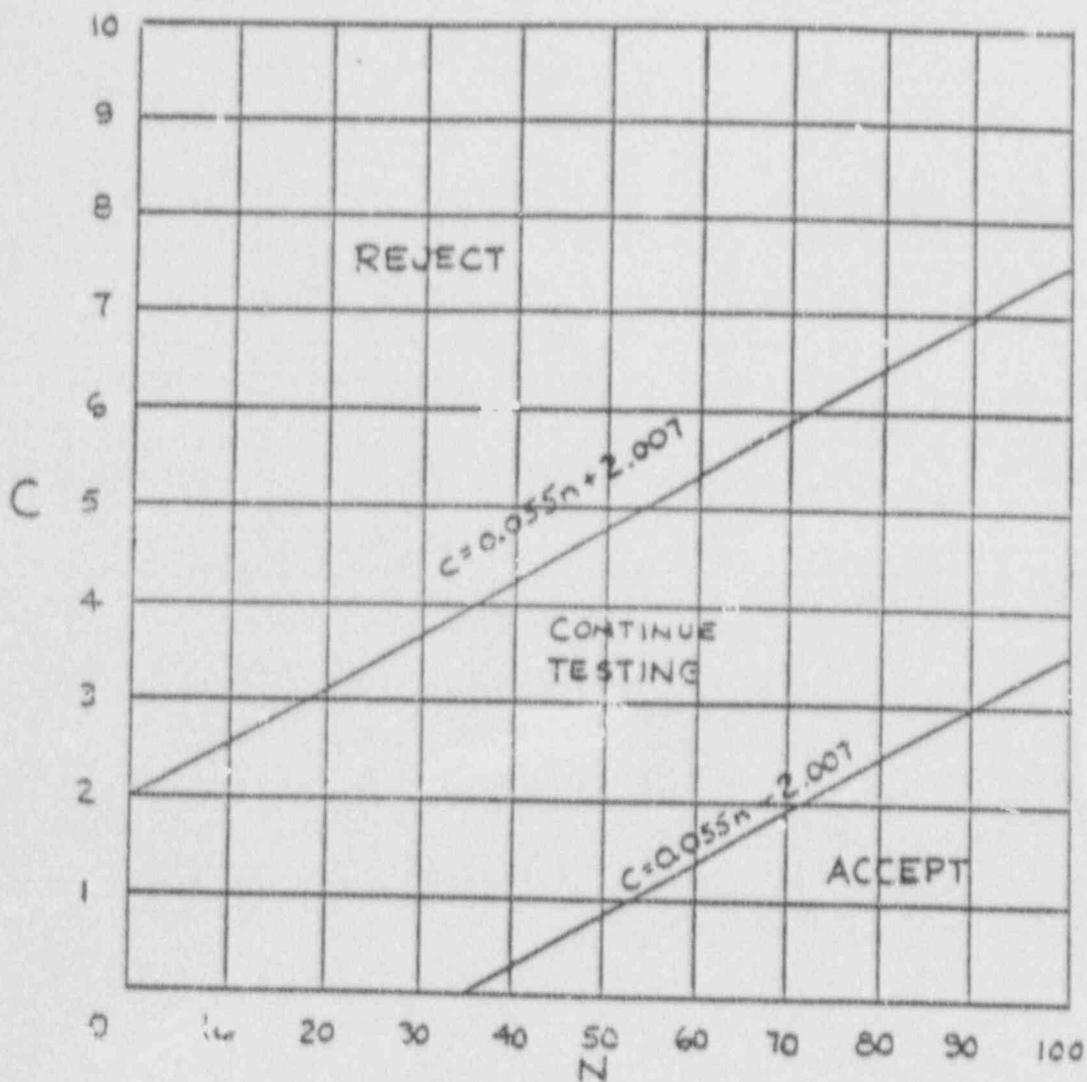
IV. Basis for Relief

The PNPP Unit 1 Technical Specification 4.7.4.e-Functional tests bases provides assurance of snubber functional reliability by using one of three functional testing methods. The methods used and stated acceptance criteria are:

- 1) At least 10% of the total of each type of snubber shall be functionally tested either in-place or in a bench test. For each snubber of a type that does not meet the functional test acceptance criteria an additional 5% of that type of snubber shall be functionally tested until no more failures are found or until all snubbers of that type have been functionally tested; or
- 2) A representative sample of each type of snubber shall be functionally tested in accordance with Figure 4.7.4-1. "C" is the total number of snubbers of a type found not meeting the acceptance requirements. The cumulative number of snubbers of a type tested is denoted by "N". At the end of each day's testing, the new values of "N" and "C" (previous day's total plus current day's increments) shall be plotted on Figure 4.7.4-1. If at any time the point plotted falls on or below the "Accept" line, testing of snubbers of that type may be terminated. When the point plotted lies in the "Continue Testing" region, additional snubbers of that type shall be tested until the point falls in the "Accept" region or the "Reject" region, or all the snubbers of that type have been tested. Testing equipment failure during functional testing may invalidate that day's testing and allow that day's testing to resume anew at a later time, providing all snubbers tested with the failed equipment during the day of the equipment failure are retested; or
- 3) An initial representative sample of 55 snubbers of each type shall be functionally tested. For each snubber type which does not meet the functional test acceptance criteria, another sample of at least one-half the size of the initial sample shall be tested until the total number tested is equal to the initial sample size multiplied by the factor,  $1 + C/2$ , where "C" is the number of snubbers found which do not meet the functional test acceptance criteria. The results from this sample plan shall be plotted using an "Accept" line which follows the equation  $N = 55(1 + C/2)$ . Each snubber point should be plotted as soon as the snubber is tested. If the point plotted falls on or below the "Accept" line, testing of that type of snubber may be terminated. If the point plotted falls above the "Accept" line, testing must continue until the point falls on or below the "Accept" line or all the snubbers of that type have been tested.

V. Alternate Testing

None



SAMPLE PLAN FOR SNUBBER FUNCTIONAL TEST  
FNPP 1-1: TECHNICAL SPECIFICATION FIGURE 4.7.4-1

Figure 1

## 7.10 Snubber Tables

The snubber tables contained in this section list all snubbers which fall under Technical Specification requirements. The listing is for reference purposes. The actual snubber schedule will be presented to management for approval as soon as possible before each outage.

NOTE: Changes to the snubber tables, such as additions or deletions due to design changes, have no impact on the context of this section. The snubber tables will be updated on a periodic basis.

The information presented in the tables is defined below:

1. ITEM NO. - A number used by ASME Section XI to determine examination requirements. This item number is used within to determine which snubbers are also Section XI snubbers.
2. MPL NO. - A unique identification number used to track snubber testing.
3. HANGER - MARK NO. - A unique number used to cross reference snubbers with Section XI requirements.
4. CATEGORY NO. - A unique number used for computer selection and identifies several operating characteristics of the snubber (reference 7.8).

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F1.10	1B21G7070	1B21-G006-S101B	122121
F1.10	1B21G7071	1B21-G006-S101C	122121
F1.10	1B21G7072	1B21-G006-S102A	123121
F1.10	1B21G7073	1B21-G006-S102B	124121
F1.10	1B21G7074	1B21-G006-S102C	124121
F1.10	1B21G7075	1B21-G006-S102D	123121
F1.10	1B21G7076	1B21-G006-S103A	122121
F1.10	1B21G7077	1B21-G006-S103B	122121
F1.10	1B21G7078	1B21-G006-S103C	122121
F1.10	1B21G7079	1B21-G006-S103D	122121
F1.10	1B21G7080	1B21-G006-S104A	123121
F1.10	1B21G7081	1B21-G006-S104B	122121
F1.10	1B21G7082	1B21-G006-S104C	122121
F1.10	1B21G7083	1B21-G006-S104D	123121
F1.10	1B21G7084	1B21-G006-S105A	123121
F1.10	1B21G7085	1B21-G006-S105B	124121
F1.10	1B21G7086	1B21-G006-S105C	124121
F1.10	1B21G7087	1B21-G006-S105D	123121
F1.10	1B21G7088	1B21-G006-S106B	124121
F1.10	1B21G7089	1B21-G006-S106C	124121
F1.10	1B21G7090	1B21-G006-S107B	123121
F1.10	1B21G7091	1B21-G006-S107C	123121
F1.10	1B21G7092	1B21-G006-S108B	124121
F1.10	1B21G7093	1B21-G006-S108C	124121
F3.10	1B21H0002	1B21-H0002	226221
F3.10	1B21H0004	1B21-H0004	226221
F3.10	1B21H0005	1B21-H0005	225221
F3.10	1B21H0006	1B21-H0006	226221
F3.10	1B21H0007	1B21-H0007 (TANDEM)	225221
F3.10	1B21H0009	1B21-H0009 (TANDEM)	224221
F3.10	1B21H0010	1B21-H0010 (TANDEM)	226221
F3.10	1B21H0012	1B21-H0012	225221
F3.10	1B21H0013	1B21-H0013	226221
F3.10	1B21H0014	1B21-H0014	225221
F3.10	1B21H0015	1B21-H0015	225221
F3.10	1B21H0020	1B21-H0020 (TANDEM)	226221
F3.10	1B21H0021	1B21-H0021	225221
F3.10	1B21H0022	1B21-H0022	226221
F3.10	1B21H0023	1B21-H0023	225221
F3.10	1B21H0024	1B21-H0024	225221
F3.10	1B21H0025	1B21-H0025 (TANDEM)	225221
F3.10	1B21H0029	1B21-H0029 (TANDEM)	226221
F3.10	1B21H0031	1B21-H0031	225221
F3.10	1B21H0032	1B21-H0032	226221
F3.10	1B21H0033	1B21-H0033	225221
F3.10	1B21H0038	1B21-H0038	226221
F3.10	1B21H0039	1B21-H0039	226221
F3.10	1B21H0040	1B21-H0040	226221
F3.10	1B21H0041	1B21-H0041	226221
F3.10	1B21H0042	1B21-H0042 (TANDEM)	225221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F3.10	1B21H0043	1B21-H0043	225221
F3.10	1B21H0045	1B21-H0045	225221
F3.10	1B21H0046	1B21-H0046	225221
F3.10	1B21H0047	1B21-H0047	226221
F3.10	1B21H0048	1B21-H0048	226221
F3.10	1B21H0049	1B21-H0049 (TANDEM)	226221
F3.10	1B21H0051	1B21-H0051 (TANDEM)	225221
F3.10	1B21H0054	1B21-H0054 (TANDEM)	225221
F3.10	1B21H0056	1B21-H0056	225221
F3.10	1B21H0057	1B21-H0057	226221
F3.10	1B21H0058	1B21-H0058	226221
F3.10	1B21H0059	1B21-H0059	225221
F3.10	1B21H0060	1B21-H0060	224221
F3.10	1B21H0063	1B21-H0063 (TANDEM)	225221
F3.10	1B21H0064	1B21-H0064	226221
F3.10	1B21H0065	1B21-H0065 (TANDEM)	226221
F3.10	1B21H0066	1B21-H0066	226221
F3.10	1B21H0068	1B21-H0068	226221
F3.10	1B21H0069	1B21-H0069 (TANDEM)	224221
F3.10	1B21H0071	1B21-H0071	225221
F3.10	1B21H0073	1B21-H0073	226221
F3.10	1B21H0074	1B21-H0074 (TANDEM)	226221
F3.10	1B21H0075	1B21-H0075	226221
F3.10	1B21H0076	1B21-H0076	225221
F3.10	1B21H0077	1B21-H0077	226221
F3.10	1B21H0078	1B21-H0078	225221
F3.10	1B21H0079	1B21-H0079	226221
F3.10	1B21H0082	1B21-H0082	225221
F3.10	1B21H0084	1B21-H0084	226221
F3.10	1B21H0085	1B21-H0085	226221
F3.10	1B21H0086	1B21-H0086 (TANDEM)	226221
F3.10	1B21H0087	1B21-H0087 (TANDEM)	226221
F3.10	1B21H0089	1B21-H0089	225221
F3.10	1B21H0091	1B21-H0091	225221
F3.10	1B21H0092	1B21-H0092 (TANDEM)	225221
F3.10	1B21H0094	1B21-H0094	225221
F3.10	1B21H0095	1B21-H0095 (TANDEM)	226221
F3.10	1B21H0096	1B21-H0096	226221
F3.10	1B21H0098	1B21-H0098 (TANDEM)	226221
F3.10	1B21H0100	1B21-H0100	225221
F3.10	1B21H0101	1B21-H0101	226221
F3.10	1B21H0102	1B21-H0102	225221
F3.10	1B21H0103	1B21-H0103	225221
F3.10	1B21H0106	1B21-H0106 (TANDEM)	226221
F3.10	1B21H0107	1B21-H0107 (TANDEM)	226221
F3.10	1B21H0108	1B21-H0108	225221
F3.10	1B21H0112	1B21-H0112	226221
F3.10	1B21H0113	1B21-H0113	224221
F3.10	1B21H0114	1B21-H0114	226221
F3.10	1B21H0115	1B21-H0115	226221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F3.10	1B21H0117	1B21-H0117 (TANDEM)	226221
F3.10	1B21H0118	1B21-H0118 (TANDEM)	224221
F3.10	1B21H0119	1B21-H0119 (TANDEM)	226221
F3.10	1B21H0122	1B21-H0122	226221
F3.10	1B21H0124	1B21-H0124	226221
F3.10	1B21H0125	1B21-H0125	226221
F3.10	1B21H0126	1B21-H0126	226221
F3.10	1B21H0127	1B21-H0127 (TANDEM)	226221
F3.10	1B21H0129	1B21-H0129	226221
F3.10	1B21H0130	1B21-H0130	226221
F3.10	1B21H0133	1B21-H0133	225221
F3.10	1B21H0135	1B21-H0135 (TANDEM)	225221
F3.10	1B21H0138	1B21-H0138	225221
F3.10	1B21H0139	1B21-H0139	225221
F3.10	1B21H0140	1B21-H0140 (TANDEM)	226221
F3.10	1B21H0141	1B21-H0141 (TANDEM)	226221
F3.10	1B21H0143	1B21-H0143	226221
F3.10	1B21H0145	1B21-H0145	225221
F3.10	1B21H0146	1B21-H0146	224221
F3.10	1B21H0147	1B21-H0147	226221
F3.10	1B21H0148	1B21-H0148	224221
F3.10	1B21H0150	1B21-H0150 (TANDEM)	226221
F3.10	1B21H0151	1B21-H0151 (TANDEM)	226221
F3.10	1B21H0152	1B21-H0152	224221
F3.10	1B21H0153	1B21-H0153 (TANDEM)	226221
F3.10	1B21H0154	1B21-H0154 (TANDEM)	226221
F3.10	1B21H0162	1B21-H0162 (TANDEM)	225221
F3.10	1B21H0165	1B21-H0165	225221
F3.10	1B21H0166	1B21-H0166	226221
F3.10	1B21H0170	1B21-H0170 (TANDEM)	225221
F3.10	1B21H0174	1B21-H0174 (TANDEM)	225221
F3.10	1B21H0178	1B21-H0178 (TANDEM)	225221
F3.10	1B21H0181	1B21-H0181 (TANDEM)	226221
F3.10	1B21H0183	1B21-H0183	225221
F3.10	1B21H0184	1B21-H0184	226221
F3.10	1B21H0185	1B21-H0185	225221
F3.10	1B21H0187	1B21-H0187 (TANDEM)	225221
F3.10	1B21H0191	1B21-H0191	226221
F3.10	1B21H0222	1B21-H0222	226221
F3.10	1B21H0408	1B21-H0408	225221
F3.10	1B21H0410	1B21-H0410	226221
F3.10	1B21H0412	1B21-H0412	226221
F3.10	1B21H0415	1B21-H0415	225221
F3.10	1B21H0421	1B21-H0421	225221
F3.10	1B21H0423	1B21-H0423	225221
F3.10	1B21H0427	1B21-H0427	225221
F1.10	1B21H0445	1B21-H0445	224221
F1.10	1B21H0446	1B21-H0446 (TANDEM)	224221
F1.10	1B21H0447	1B21-H0447	224221
F1.10	1B21H0449	1B21-H0449	224221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F1.10	1B21H0450	1B21-H0450	223221
F1.10	1B21H0452	1B21-H0452	223221
F1.10	1B21H0453	1B21-H0453	224221
	1B21H0456	1B21-H0456	223211
	1B21H0457	1B21-H0457	224211
F1.10	1B21H0458	1B21-H0458	224221
F1.10	1B21H0459	1B21-H0459	224221
F1.10	1B21H0462	1B21-H0462	224221
F5.10	1B21H0465	1B21-H0465	223211
F1.10	1B21H0471	1B21-H0471	223221
F1.10	1B21H0472	1B21-H0472	225221
F1.10	1B21H0474	1B21-H0474	224221
	1B21H0476	1B21-H0476	224211
F1.10	1B21H0490	1B21-H0490	224221
F1.10	1B21H0491	1B21-H0491	224221
	1B21H7153	1B21-F022B-H3003	223221
	1B21H7503	1B21-F041G-H3005	222221
	1B21H7548	1B21-F047B-H3008	221221
	1B21H7637	1B21-F047G-H3002	222221
	1B21H7782	1B21-F051G-H3006	222221
F1.10	1B33G7046A	1B33-G006-S301A	121121
F1.10	1B33G7046B	1B33-G006-S301B	121121
F1.10	1B33G7047A	1B33-G006-S302A	121121
F1.10	1B33G7047B	1B33-G006-S302B	121121
F1.10	1B33G7048A	1B33-G006-S303A	122121
F1.10	1B33G7048B	1B33-G006-S303B	122121
F1.10	1B33G7049A	1B33-G006-S304A	122121
F1.10	1B33G7049B	1B33-G006-S304B	122121
F1.10	1B33G7050A	1B33-G006-S305A	121121
F1.10	1B33G7050B	1B33-G006-S305B	121121
F1.10	1B33G7051A	1B33-G006-S306A	121121
F1.10	1B33G7051B	1B33-G006-S306B	121121
F1.10	1B33G7052A	1B33-G006-S351A	121121
F1.10	1B33G7052B	1B33-G006-S351B	121121
F1.10	1B33G7053A	1B33-G006-S352A	121121
F1.10	1B33G7053B	1B33-G006-S352B	121121
F1.10	1B33G7054A	1B33-G006-S353A	121121
F1.10	1B33G7054B	1B33-G006-S353B	121121
F1.10	1B33G7055A	1B33-G006-S354A	121121
F1.10	1B33G7055B	1B33-G006-S354B	121121
F1.10	1B33G7056A	1B33-G006-S356A	122121
F1.10	1B33G7056B	1B33-G006-S356B	122121
F1.10	1B33G7057A	1B33-G006-S357A	122121
F1.10	1B33G7057B	1B33-G006-S357B	122121
F1.10	1B33G7058A	1B33-G006-S358A	123121
F1.10	1B33G7058B	1B33-G006-S358B	123121
F1.10	1B33G7059A	1B33-G006-S359A	123121
F1.10	1B33G7059B	1B33-G006-S359B	123121
F1.10	1B33G7060A	1B33-G006-S360A	123121
F1.10	1B33G7060B	1B33-G006-S360B	123121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F1.10	1B33G7061A	1B33-G006-S361A	123121
F1.10	1B33G7061B	1B33-G006-S361B	123121
F1.10	1B33G7062A	1B33-G006-S362A	123121
F1.10	1B33G7062B	1B33-G006-S362B	123121
F1.10	1B33G7063A	1B33-G006-S363A	123121
F1.10	1B33G7063B	1B33-G006-S363B	123121
F1.10	1B33G7064A	1B33-G006-S369A	125121
F1.10	1B33G7064B	1B33-G006-S369B	125121
F1.10	1B33G7065A	1B33-G006-S370A	125121
F1.10	1B33G7065B	1B33-G006-S370B	125121
F1.10	1B33G7066A	1B33-G006-S371A	125121
F1.10	1B33G7066B	1B33-G006-S371B	125121
F1.10	1B33G7067A	1B33-G006-S372A	125121
F1.10	1B33G7067B	1B33-G006-S372B	125121
F1.10	1B33G7068A	1B33-G006-S373A	125121
F1.10	1B33G7068B	1B33-G006-S373B	125121
F1.10	1B33G7069A	1B33-G006-S374A	125121
F1.10	1B33G7069B	1B33-G006-S374B	125121
F1.10	1B33G7070A	1B33-G006-S375A	125121
F1.10	1B33G7070B	1B33-G006-S375B	125121
F1.10	1B33H0002	1B33-H0002 (TANDEM)	223221
F5.10	1B33H0005	1B33-H0005	224221
F5.10	1B33H0007	1B33-H0007	223221
	1B33H2000	1B33-H2000	221221
	1B33H2001	1B33-H2001	221221
	1B33H2003	1B33-H2003	221221
	1B33H2008	1B33-H2008	221221
	1B33H2011	1B33-H2011	221221
	1B33H2013	1B33-H2013	221221
	1B33H2015	1B33-H2015	221221
	1B33H2016	1B33-H2016	221221
	1B33H2018	1B33-H2018	221221
	1B33H2019	1B33-H2019	221221
	1B33H2020	1B33-H2020	221221
	1B33H2021	1B33-H2021	221221
	1B33H2022	1B33-H2022	221221
F2.10	1C11H0659	1C11-H0659	214121
F2.10	1C11H0661	1C11-H0661	214121
F2.10	1C11H0662	1C11-H0662	214122
F2.10	1C11H0663	1C11-H0663	214121
	1C11H0664	1C11-H0664	215121
F2.10	1C11H0666	1C11-H0666	214121
	1C11H0671	1C11-H0671	215121
F2.10	1C11H0673	1C11-H0673	214121
F2.10	1C11H0675	1C11-H0675	214121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1C11H0693	1C11-H0693	211111
	1C11H0694	1C11-H0694	211111
	1C11H3081	1C11-H3081	213121
	1C11H3085	1C11-H3085	213121
F1.10	1C11H5013	1C11-H5013	214121
F2.10	1C11H5014	1C11-H5014	214121
F1.10	1C41H0067	1C41-H0067	221221
F1.10	1C41H0109	1C41-H0109 (TANDEM)	223221
F1.10	1C41H0110	1C41-H0110	221221
	1C41H3002	1C41-H3002	213211
	1C41H3035	1C41-H3035	212211
F1.10	1C41H5000	1C41-H5000	222221
F1.10	1C41H5001	1C41-H5001	222221
F1.10	1C41H5002	1C41-H5002	224221
F1.10	1C41H5003	1C41-H5003	221221
F1.10	1C41H5005	1C41-H5005	221221
	1C41H5020	1C41-H5020	211211
F1.10	1E12H0004	1E12-H0004	226221
F1.10	1E12H0005	1E12-H0005	226221
F1.10	1E12H0006	1E12-H0006	226221
F1.10	1E12H0007	1E12-H0007	226221
F1.10	1E12H0010	1E12-H0010	226221
F1.10	1E12H0011	1E12-H0011	226221
F1.10	1E12H0012	1E12-H0012	226221
F1.10	1E12H0015	1E12-H0015	225221
F1.10	1E12H0016	1E12-H0016	226221
F1.10	1E12H0017	1E12-H0017	226221
F1.10	1E12H0018	1E12-H0018	225221
F1.10	1E12H0026	1E12-H0026	225221
F1.10	1E12H0030	1E12-H0030	225221
F1.10	1E12H0035	1E12-H0035	215221
F1.10	1E12H0036	1E12-H0036	215221
F2.10	1E12H0039	1E12-H0039	215211
F2.10	1E12H0045	1E12-H0045 (TANDEM)	214211
F1.10	1E12H0046	1E12-H0046	224221
F1.10	1E12H0047	1E12-H0047	225221
F1.10	1E12H0049	1E12-H0049	215211
F1.10	1E12H0051	1E12-H0051	216211
F3.10	1E12H0060	1E12-H0060 (TANDEM)	214211
	1E12H0063	1E12-H0063 (TANDEM)	214211
F5.10	1E12H0073	1E12-H0073 (TANDEM)	215211
F1.10	1E12H0074	1E12-H0074	226221
F2.10	1E12H0104	1E12-H0104	215211
F2.10	1E12H0105	1E12-H0105	215211
F2.10	1E12H0106	1E12-H0106	216211
F2.10	1E12H0108	1E12-H0108	216211
F2.10	1E12H0109	1E12-H0109	214211
F2.10	1E12H0110	1E12-H0110	213211
F2.10	1E12H0115	1E12-H0115	216211
F2.10	1E12H0116	1E12-H0116 (TANDEM)	216211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F2.10	1E12H0122	1E12-H0122 (TANDEM)	216211
F2.10	1E12H0124	1E12-H0124	216211
F2.10	1E12H0162	1E12-H0162	212211
F2.10	1E12H0164	1E12-H0164	214211
F2.10	1E12H0165	1E12-H0165	215211
F2.10	1E12H0169	1E12-H0169 (TANDEM)	215211
F2.10	1E12H0170	1E12-H0170	216211
F2.10	1E12H0171	1E12-H0171	216211
F2.10	1E12H0172	1E12-H0172	215211
F2.10	1E12H0180	1E12-H0180	213211
F2.10	1E12H0190	1E12-H0190	213221
F2.10	1E12H0192	1E12-H0192	214221
F2.10	1E12H0195	1E12-H0195	214211
	1E12H0205	1E12-H0205	214211
F2.10	1E12H0211	1E12-H0211	215221
F2.10	1E12H0212	1E12-H0212	215211
F2.10	1E12H0213	1E12-H0213	215211
F2.10	1E12H0234	1E12-H0234	215211
F2.10	1E12H0255	1E12-H0255	215211
F2.10	1E12H0256	1E12-H0256	215211
F2.10	1E12H0257	1E12-H0257	215211
F2.10	1E12H0263	1E12-H0263 (TANDEM)	215211
F2.10	1E12H0264	1E12-H0264	215211
F1.10	1E12H0267	1E12-H0267	123221
F1.10	1E12H0268	1E12-H0268	123221
F1.10	1E12H0269	1E12-H0269	123221
F1.10	1E12HC270	1E12-H0270	122221
F1.10	1E12H0271	1E12-H0271	226221
F1.10	1E12H0272	1E12-H0272	226221
F2.10	1E12H0280	1E12-H0280	225221
F2.10	1E12H0284	1E12-H0284	225221
F2.10	1E12H0288	1E12-H0288	215211
F2.10	1E12H0289	1E12-H0289	215211
F2.10	1E12H0290	1E12-H0290	215211
F2.10	1E12H0292	1E12-H0292	215211
F2.10	1E12H0293	1E12-H0293 (TANDEM)	214211
F2.10	1E12H0295	1E12-H0295	216211
F2.10	1E12H0303	1E12-H0303	214211
F2.10	1E12H0305	1E12-H0305	215211
F2.10	1E12H0309	1E12-H0309	215211
F2.10	1E12H0310	1E12-H0310	215211
F2.10	1E12H0313	1E12-H0313	216211
F2.10	1E12H0314	1E12-H0314	216211
F2.10	1E12H0315	1E12-H0315	111211
F2.10	1E12H0316	1E12-H0316	111211
F2.10	1E12H0317	1E12-H0317	213211
F2.10	1E12H0318	1E12-H0318	213211
F2.10	1E12H0322	1E12-H0322	215211
F2.10	1E12H0323	1E12-H0323 (TANDEM)	215211
F2.10	1E12H0324	1E12-H0324	215211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F2.10	1E12H0325	1E12-H0325	215211
F2.10	1E12H0333	1E12-H0333	214211
F2.10	1E12H0339	1E12-H0339	214211
F2.10	1E12H0340	1E12-H0340	213211
F2.10	1E12H0344	1E12-H0344	214211
F2.10	1E12H0345	1E12-H0345	214211
F2.10	1E12H0347	1E12-H0347	213211
F2.10	1E12H0349	1E12-H0349	225221
F2.10	1E12H0359	1E12-H0359	216211
F2.10	1E12H0360	1E12-H0360	216211
F2.10	1E12H0361	1E12-H0361	111211
F2.10	1E12H0362	1E12-H0362	111211
F2.10	1E12H0365	1E12-H0365	215211
F2.10	1E12H0367	1E12-H0367	112211
F2.10	1E12H0368	1E12-H0368	215211
F2.10	1E12H0370	1E12-H0370	215211
F2.10	1E12H0373	1E12-H0373	216211
F2.10	1E12H0374	1E12-H0374	215211
F2.10	1E12H0375	1E12-H0375	215211
F2.10	1E12H0376	1E12-H0376	216211
F2.10	1E12H0377	1E12-H0377	215211
F2.10	1E12H0378	1E12-H0378	215211
F2.10	1E12H0379	1E12-H0379	215211
F2.10	1E12H0382	1E12-H0382	213211
F2.10	1E12H0383	1E12-H0383	213211
F2.10	1E12H0385	1E12-H0385	215211
F2.10	1E12H0386	1E12-H0386	216211
F2.10	1E12H0388	1E12-H0388	215211
F2.10	1E12H0389	1E12-H0389	215211
F2.10	1E12H0391	1E12-H0391	215211
F2.10	1E12H0392	1E12-H0392	215211
F2.10	1E12H0393	1E12-H0393	215211
F2.10	1E12H0394	1E12-H0394	215211
F2.10	1E12H0407	1E12-H0407	214211
F2.10	1E12H0408	1E12-H0408	214211
F2.10	1E12H0410	1E12-H0410	216211
F2.10	1E12H0414	1E12-H0414	213211
F1.10	1E12H0416	1E12-H0416	215221
F1.10	1E12H0418	1E12-H0418	215221
F1.10	1E12H0419	1E12-H0419	214221
F2.10	1E12H0421	1E12-H0421	213211
F2.10	1E12H0422	1E12-H0422	214211
F2.10	1E12H0423	1E12-H0423	214211
F2.10	1E12H0424	1E12-H0424	215211
F2.10	1E12H0425	1E12-H0425	215211
F2.10	1E12H0427	1E12-H0427	215211
F2.10	1E12H0428	1E12-H0428	215211
F5.10	1E12H0429	1E12-H0429	215211
F2.10	1E12H0430	1E12-H0430	215211
F5.10	1E12H0431	1E12-H0431	215211

ITEM NO.	MPL. NO.	HANGER - MARK NO.	CATEGORY NO.
F2.10	1E12H0435	1E12-H0435	214221
F2.10	1E12H0437	1E12-H0437	214221
F2.10	1E12H0439	1E12-H0439	214221
F5.10	1E12H0440	1E12-H0440	214221
F5.10	1E12H0441	1E12-H0441	214221
F2.10	1E12H0447	1E12-H0447 (TANDEM)	214221
F2.10	1E12H0449	1E12-H0449	215211
F2.10	1E12H0455	1E12-H0455	215221
F2.10	1E12H0457	1E12-H0457	213221
F2.10	1E12H0459	1E12-H0459	214221
F2.10	1E12H0460	1E12-H0460 (TANDEM)	214221
F2.10	1E12H0462	1E12-H0462	214221
F2.10	1E12H0466	1E12-H0466 (TANDEM)	214221
F5.10	1E12H0467	1E12-H0467 (TANDEM)	214221
F2.10	1E12H0484	1E12-H0484	215211
F2.10	1E12H0485	1E12-H0485	215211
F2.10	1E12H0486	1E12-H0486	215211
F2.10	1E12H0488	1E12-H0488	214211
F2.10	1E12H0490	1E12-H0490	111211
F2.10	1E12H0491	1E12-H0491	111211
F2.10	1E12H049	1E12-H0492	211211
F2.10	1E12H0496	1E12-H0496	215211
F2.10	1E12H0497	1E12-H0497	215211
F2.10	1E12H0498	1E12-H0498 (TANDEM)	214211
F2.10	1E12H0500	1E12-H0500	216211
F2.10	1E12H0501	1E12-H0501	215211
F2.10	1E12H0502	1E12-H0502	215211
F2.10	1E12H0503	1E12-H0503	215211
F2.10	1E12H0506	1E12-H0506 (TANDEM)	214211
F2.10	1E12H0510	1E12-H0510	213212
F2.10	1E12H0511	1E12-H0511	213212
F2.10	1E12H0512	1E12-H0512	213212
F2.10	1E12H0513	1E12-H0513	213212
	1E12H0518	1E12-H0518	211221
	1E12H0520	1E12-H0520	212221
	1E12H0521	1E12-H0521	211221
	1E12H0522	1E12-H0522	213221
	1E12H0523	1E12-H0523	212221
F2.10	1E12H0526	1E12-H0526	215211
F2.10	1E12H0528	1E12-H0528	216211
F2.10	1E12H0533	1E12-H0533	215211
F2.10	1E12H0535	1E12-H0535	215211
	1E12H0538	1E12-H0538	213221
	1E12H0539	1E12-H0539	213221
	1E12H0542	1E12-H0542	212221
F2.10	1E12H0545	1E12-H0545	213221
F2.10	1E12H0546	1E12-H0546	213221
F2.10	1E12H0551	1E12-H0551	215211
F2.10	1E12H0554	1E12-H0554	215211
F2.10	1E12H0555	1E12-H0555	216211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F2.10	1E12H0556	1E12-H0556 (TANDEM)	215211
F2.10	1E12H0557	1E12-H0557	215211
F2.10	1E12H0558	1E12-H0558	215211
F2.10	1E12H0560	1E12-H0560 (TANDEM)	215211
F2.10	1E12H0561	1E12-H0561	214211
F2.10	1E12H0565	1E12-H0565 (TANDEM)	214221
F2.10	1E12H0567	1E12-H0567	215221
	1E12H0568	1E12-H0568	214221
F2.10	1E12H0569	1E12-H0569	216211
F2.10	1E12H0570	1E12-H0570	216211
F2.10	1E12H0571	1E12-H0571	216211
	1E12H0580	1E12-H0580 (TANDEM)	213221
	1E12H0581	1E12-H0581	215221
	1E12H0582	1E12-H0582	215221
	1E12H0583	1E12-H0583	214221
	1E12H0585	1E12-H0585	214211
	1E12H0586	1E12-H0586	214211
	1E12H0587	1E12-H0587	214211
	1E12H0588	1E12-H0588 (TANDEM)	214211
	1E12H0590	1E12-H0590	214211
	1E12H0591	1E12-H0591	214211
	1E12H0595	1E12-H0595	215211
	1E12H0597	1E12-H0597 (TANDEM)	213211
	1E12H0599	1E12-H0599	214211
	1E12H0601	1E12-H0601	214211
	1E12H0602	1E12-H0602	214211
	1E12H0603	1E12-H0603	214211
	1E12H0604	1E12-H0604	213211
	1E12H0605	1E12-H0605	215211
	1E12H0606	1E12-H0606	214211
F2.10	1E12H0616	1E12-H0616	215211
F2.10	1E12H0617	1E12-H0617	215211
F5.10	1E12H0623	1E12-H0623	215211
F1.10	1E12H0652	1E12-H0652	216211
F1.10	1E12H0653	1E12-H0653	215211
F1.10	1E12H0660	1E12-H0660 (TANDEM)	216211
F2.10	1E12H0666	1E12-H0666	214211
	1E12H0668	1E12-H0668	214211
F1.10	1E12H0671	1E12-H0671 (TANDEM)	226221
F2.10	1E12H0679	1E12-H0679	212211
F2.10	1E12H0680	1E12-H0680	212211
F2.10	1E12H0681	1E12-H0681	214211
F2.10	1E12H0682	1E12-H0682	214211
F2.10	1E12H0694	1E12-H0694	215211
F3.10	1E12H0699	1E12-H0699	216211
F2.10	1E12H0710	1E12-H0710	215211
F2.10	1E12H0712	1E12-H0712	214211
F1.10	1E12H0726	1E12-H0726	227221
F2.10	1E12H0729	1E12-H0729	226211
F2.10	1E12H0730	1E12-H0730	216211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F2.10	1E12H0731	1E12-H0731	226211
F2.10	1E12H0734	1E12-H0734	216211
F1.10	1E12H0736	1E12-H0736	216221
F2.10	1E12H0737	1E12-H0737	215211
F2.10	1E12H0738	1E12-H0738	215211
F1.10	1E12H0741	1E12-H0741 (TANDEM)	225221
F1.10	1E12H0747	1E12-H0747	214211
F1.10	1E12H0749	1E12-H0749	226221
F1.10	1E12H0750	1E12-H0750	226221
F2.10	1E12H0751	1E12-H0751	215211
F2.10	1E12H0752	1E12-H0752	214211
	1E12H0754	1E12-H0754	212211
	1E12H0756	1E12-H0756	215211
	1E12H0758	1E12-H0758	214211
	1E12H0759	1E12-H0759	213211
	1E12H0760	1E12-H0760	213221
	1E12H0761	1E12-H0761 (TANDEM)	214221
	1E12H0762	1E12-H0762	213211
F1.10	1E12H0764	1E12-H0764	226221
F1.10	1E12H0765	1E12-H0765	226221
F1.10	1E12H0766	1E12-H0766 (TANDEM)	226221
F2.10	1E12H0769	1E12-H0769	216211
F2.10	1E12H0770	1E12-H0770	215211
F2.10	1E12H0771	1E12-H0771	216211
F2.10	1E12H0772	1E12-H0772	216211
F2.10	1E12H0774	1E12-H0774	225221
F1.10	1E12H0777	1E12-H0777	225221
F2.10	1E12H0779	1E12-H0779	213211
F2.10	1E12H0780	1E12-H0780	214211
F2.10	1E12H0781	1E12-H0781	212221
F2.10	1E12H0782	1E12-H0782 (TANDEM)	213221
F2.10	1E12H0787	1E12-H0787	214211
F2.10	1E12H0788	1E12-H0788	214211
	1E12H1037	1E12-H1037	211211
	1E12H1038	1E12-H1038	211211
	1E12H1039	1E12-H1039	211211
	1E12H1043	1E12-H1043	221221
	1E12H1051	1E12-H1051	211211
	1E12H2019	1E12-H2019	211211
	1E12H2023	1E12-H2023	212211
	1E12H2028	1E12-H2028	212211
	1E12H2051	1E12-H2051	211221
	1E12H2073	1E12-H2073	211221
	1E12H2075	1E12-H2075	211221
	1E12H2119	1E12-H2119	211221
	1E12H2138	1E12-H2138	211211
	1E12H2139	1E12-H2139	211211
	1E12H2140	1E12-H2140	211211
	1E12H2142	1E12-H2142	211211
	1E12H2143	1E12-H2143	211211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1E12H2144	1E12-H2144	211211
	1E12H2146	1E12-H2146	211211
	1E12H2150	1E12-H2150	211211
	1E12H2161	1E12-H2161	211211
	1E12H2220	1E12-H2220	211211
	1E12H2222	1E12-H2222	211211
	1E12H2229	1E12-H2229	211221
	1E12H2236	1E12-H2236	221221
	1E12H2256	1E12-H2256	221221
	1E12H2258	1E12-H2258	211211
	1E12H2259	1E12-H2259	211211
	1E12H2268	1E12-H2268	211221
	1E12H2276	1E12-H2276	211211
	1E12H2291	1E12-H2291	211211
	1E12H2294	1E12-H2294	211211
	1E12H2297	1E12-H2297	211211
	1E12H2299	1E12-H2299	212211
	1E12H2302	1E12-H2302	212211
F1.10	1E12H5000	1E12-H5000 (TANDEM)	214221
F1.10	1E12H5001	1E12-H5001	216221
F2.10	1E12H5002	1E12-H5002	215221
	1E15H0005	1E15-H0005	224211
	1E15H0006	1E15-H0006	224211
	1E15H0007	1E15-H0007	224211
	1E15H0008	1E15-H0008	224211
	1E15H0110	1E15-H0110	215211
F1.10	1E21H0001	1E21-H0001	123221
F1.10	1E21H0002	1E21-H0002	123221
F1.10	1E21H0004	1E21-H0004	226221
F1.10	1E21H0007	1E21-H0007	215221
F1.10	1E21H0008	1E21-H0008	215221
F1.10	1E21H0011	1E21-H0011	215221
F1.10	1E21H0012	1E21-H0012	214221
F1.10	1E21H0015	1E21-H0015	214221
F1.10	1E21H0016	1E21-H0016	215221
	1E21H0024	1E21-H0024	215211
F2.10	1E21H0026	1E21-H0026	215211
F2.10	1E21H0028	1E21-H0028	216211
F2.10	1E21H0030	1E21-H0030 (TANDEM)	215211
F2.10	1E21H0038	1E21-H0038	214211
F2.10	1E21H0039	1E21-H0039	214211
F2.10	1E21H0040	1E21-H0040	214211
F2.10	1E21H0042	1E21-H0042	214211
	1E21H0044	1E21-H0044	214211
	1E21H0047	1E21-H0047	214211
F2.10	1E21H0050	1E21-H0050 (TANDEM)	216211
F2.10	1E21H0053	1E21-H0053	214211
F1.10	1E21H0060	1E21-H0060	215221
F1.10	1E21H0061	1E21-H0061	215221
F1.10	1E21H0062	1E21-H0062	215221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F1.10	1E21H0063	1E21-H0063	215221
F2.10	1E21H0065	1E21-H0065	215211
F2.10	1E21H0066	1E21-H0066	215211
F2.10	1E21H0067	1E21-H0067	214211
F2.10	1E21H0069	1E21-H0069	215211
	1E21H0071	1E21-H0071	214212
	1E21H0072	1E21-H0072	211211
F2.10	1E21H0079	1E21-H0079	213211
F2.10	1E21H0084	1E21-H0084	215211
	1E21H0091	1E21-H0091	214212
F2.10	1E21H0096	1E21-H0096	214211
	1E21H1019	1E21-H1019	211211
F1.10	1E22H0001	1E22-H0001	123221
F1.10	1E22H0002	1E22-H0002	123221
F1.10	1E22H0005	1E22-H0005	216221
F1.10	1E22H0007	1E22-H0007	215221
F1.10	1E22H0008	1E22-H0008	215221
F1.10	1E22H0010	1E22-H0010	215221
F1.10	1E22H0011	1E22-H0011	214221
F1.10	1E22H0015	1E22-H0015	216221
F1.10	1E22H0017	1E22-H0017	215221
F5.10	1E22H0021	1E22-H0021	214211
F5.10	1E22H0024	1E22-H0024	214211
F2.10	1E22H0032	1E22-H0032	214211
F2.10	1E22H0034	1E22-H0034	215211
F2.10	1E22H0035	1E22-H0035	215211
F2.10	1E22H0037	1E22-H0037	214211
F2.10	1E22H0038	1E22-H0038	214211
F5.10	1E22H0047	1E22-H0047	215211
F2.10	1E22H0053	1E22-H0053	214211
F2.10	1E22H0054	1E22-H0054	216211
F2.10	1E22H0057	1E22-H0057	214211
F2.10	1E22H0060	1E22-H0060	215211
F2.10	1E22H0064	1E22-H0064	215211
F2.10	1E22H0066	1E22-H0066 (TANDEM)	214211
F2.10	1E22H0067	1E22-H0067	214211
F2.10	1E22H0070	1E22-H0070	216211
F2.10	1E22H0081	1E22-H0081	214211
F5.10	1E22H0087	1E22-H0087	216211
	1E22H0089	1E22-H0089	214211
	1E22H0090	1E22-H0090	214211
F2.10	1E22H0105	1E22-H0105	215211
F2.10	1E22H0107	1E22-H0107 (TANDEM)	214211
F1.10	1E22H0118	1E22-H0118	215221
F1.10	1E22H0119	1E22-H0119	215211
F2.10	1E22H0122	1E22-H0122	215211
F5.10	1E22H0123	1E22-H0123	216211
F3.10	1E22H0134	1E22-H0134	213221
F3.10	1E22H0135	1E22-H0135	213221
F3.10	1E22H5000	1E22-H5000	213221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1E32H0003	1E32-H0003	211221
	1E32H0008	1E32-H0008	212221
	1E32H0015	1E32-H0015	213221
	1E32H0035	1E32-H0035	211221
	1E32H0036	1E32-H0036	211221
	1E32H0037	1E32-H0037	211221
	1E32H0038	1E32-H0038	211221
	1E32H0039	1E32-H0039	211221
	1E32H0040	1E32-H0040	211221
	1E32H0041	1E32-H0041	211221
	1E32H0042	1E32-H0042	211221
	1E32H0045	1E32-H0045	211221
	1E32H0046	1E32-H0046	211221
	1E32H0048	1E32-H0048	211221
	1E32H0053	1E32-H0053	213221
	1E32H0054	1E32-H0054	213221
	1E32H0055	1E32-H0055	213221
	1E32H0056	1E32-H0056	213221
	1E32H0063	1E32-H0063	212221
	1E32H0064	1E32-H0064	213221
	1E32H0065	1E32-H0065	212221
	1E32H0066	1E32-H0066	212221
	1E32H0067	1E32-H0067	211221
	1E32H0068	1E32-H0068	211221
	1E32H0070	1E32-H0070	212221
	1E32H0071	1E32-H0071	212221
	1E32H0072	1E32-H0072	212221
	1E32H0073	1E32-H0073	212221
	1E32H0074	1E32-H0074	211221
	1E32H0076	1E32-H0076	211221
	1E32H0078	1E32-H0078	211221
	1E32H0080	1E32-H0080	211221
	1E32H0084	1E32-H0084 (TANDEM)	221221
	1E32H0086	1E32-H0086 (TANDEM)	221221
	1E32H0088	1E32-H0088	222221
F5.10	1E32H0090	1E32-H0090	223221
F1.10	1E32H0094	1E32-H0094	223221
	1E32H0095	1E32-H0095	222221
	1E32H0096	1E32-H0096	221221
F5.10	1E32H0097	1E32-H0097	223221
F1.10	1E32H0101	1E32-H0101	222221
F1.10	1E32H0102	1E32-H0102	223221
F1.10	1E32H0105	1E32-H0105	223221
F5.10	1E32H0106	1E32-H0106	223221
	1E32H0107	1E32-H0107	222221
	1E32H0110	1E32-H0110 (TANDEM)	221221
	1E32H0112	1E32-H0112	223221
	1E32H0113	1E32-H0113 (TANDEM)	221221
	1E32H0117	1E32-H0117 (TANDEM)	221221
	1E32H0118	1E32-H0118	221221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1E32H0120	1E32-H0120 (TANDEM)	222221
F5.10	1E32H0121	1E32-H0121	223221
F1.10	1E32H0124	1E32-H0124	223221
F1.10	1E32H0125	1E32-H0125	224221
	1E32H0132	1E32-H0132 (TANDEM)	322211
	1E32H0150	1E32-H0150	221211
	1E32H0151	1E32-H0151	223211
	1E32H0152	1E32-H0152	223211
	1E32H0154	1E32-H0154	223221
	1E32H0156	1E32-H0156 (TANDEM)	222221
	1E32H0158	1E32-H0158 (TANDEM)	222221
	1E32H0160	1E32-H0160 (TANDEM)	222221
	1E32H0184	1E32-H0184	221211
	1E32H0187	1E32-H0187	221211
	1E32H0189	1E32-H0189	221211
	1E32H0190	1E32-H0190	221211
	1E32H0195	1E32-H0195 (TANDEM)	221221
	1E32H0197	1E32-H0197	222221
	1E32H0201	1E32-H0201	221221
	1E32H0203	1E32-H0203	221221
	1E32H0205	1E32-H0205	222221
	1E32H0207	1E32-H0207	221221
	1E32H0215	1E32-H0215	221221
	1E32H0226	1E32-H0226	221211
	1E32H0231	1E32-H0231	221211
	1E32H0234	1E32-H0234	221211
	1E32H0237	1E32-H0237	221211
	1E32H0243	1E32-H0243	221211
	1E32H0246	1E32-H0246	221211
	1E32H0247	1E32-H0247	221211
	1E32H0250	1E32-H0250	221211
	1E32H0251	1E32-H0251	221211
	1E32H0258	1E32-H0258	222221
F5.10	1E32H0260	1E32-H0260	222221
	1E32H0261	1E32-H0261	221211
	1E32H0262	1E32-H0262	223221
	1E32H0268	1E32-H0268	212221
	1E32H2002	1E32-H2002	211221
	1E32H2006	1E32-H2006	211221
	1E32H5003	1E32-H5003	213221
	1E51H0002	1E51-H0002	214221
F2.10	1E51H0008	1E51-H0008	213221
F5.10	1E51H0036	1E51-H0036	215221
F5.10	1E51H0053	1E51-H0053	213221
F2.10	1E51H0056	1E51-H0056	211221
F2.10	1E51H0057	1E51-H0057	213211
	1E51H0062	1E51-H0062 (TANDEM)	213211
F1.10	1E51H0072	1E51-H0072	224221
F1.10	1E51H0073	1E51-H0073	224221
F1.10	1E51H0074	1E51-H0074	224221

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1E51H0105	1E51-H0105	211221
	1E51H0106	1E51-H0106	212221
F1.10	1E51H0107	1E51-H0107	225221
F1.10	1E51H0108	1E51-H0108	225221
F1.10	1E51H0110	1E51-H0110	225221
F1.10	1E51H0111	1E51-H0111	225221
F1.10	1E51H0113	1E51-H0113	225221
F1.10	1E51H0114	1E51-H0114	225221
	1E51H0122	1E51-H0122	214221
	1E51H0132	1E51-H0132	214221
	1E51H0134	1E51-H0134	211221
	1E51H0135	1E51-H0135	213221
F2.10	1E51H0156	1E51-H0156	213221
	1E51H0168	1E51-H0168 (TANDEM)	213221
	1E51H1018	1E51-H1018	212211
	1E51H1020	1E51-H1020	213211
	1E51H1031	1E51-H1031	212211
	1E51H2015	1E51-H2015	222221
	1E51H2028	1E51-H2028	211221
	1E51H2032	1E51-H2032 (TANDEM)	221221
	1E51H2069	1E51-H2069	222221
	1E51H2074	1E51-H2074	211221
	1E51H2076	1E51-H2076	222221
	1E51H2078	1E51-H2078	221221
	1E61H0047	1E61-H0047	215211
	1E61H0058	1E61-H0058	213211
	1E61H1005	1E61-H1005	211211
	1E61H1011	1E61-H1011	211211
	1E61H1015	1E61-H1015 (TANDEM)	221211
	1F42H0002	1F42-H0002	114211
	1F42H0003	1F42-H0003	114211
	1G33H0001	1G33-H0001	225121
	1G33H0002	1G33-H0002	223121
	1G33H0003	1G33-H0003	223121
	1G33H0004	1G33-H0004	223121
	1G33H0005	1G33-H0005	223121
F1.10	1G33H0017	1G33-H0017	225122
F1.10	1G33H0018	1G33-H0018	225122
F1.10	1G33H0021	1G33-H0021	224122
F1.10	1G33H0023	1G33-H0023	225121
F1.10	1G33H0026	1G33-H0026	223122
F1.10	1G33H0030	1G33-H0030	225121
	1G33H0032	1G33-H0032	224121
F1.10	1G33H0034	1G33-H0034	224121
	1G33H0037	1G33-H0037	224121
	1G33H0048	1G33-H0048	224121
	1G33H0049	1G33-H0049	224121
	1G33H0052	1G33-H0052	224121
	1G33H0054	1G33-H0054	224121
	1G33H0056	1G33-H0056	223121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1G33H0057	1G33-H0057 (TANDEM)	223121
F1.10	1G33H0082	1G33-H0082	225122
F1.10	1G33H0083	1G33-H0083	225121
F1.10	1G33H0087	1G33-H0087	224122
F1.10	1G33H0089	1G33-H0089	224121
F1.10	1G33H0090	1G33-H0090	224121
F1.10	1G33H0091	1G33-H0091	224121
F1.10	1G33H0092	1G33-H0092	224121
F1.10	1G33H0096	1G33-H0096	225121
F1.10	1G33H0097	1G33-H0097	225121
F1.10	1G33H0098	1G33-H0098	225121
F1.10	1G33H0099	1G33-H0099	225121
F5.10	1G33H0142	1G33-H0142	225121
F5.10	1G33H0144	1G33-H0144	224121
F5.10	1G33H0146	1G33-H0146	224121
	1G33H0147	1G33-H0147	224121
	1G33H0149	1G33-H0149	214121
	1G33H0158	1G33-H0158 (TANDEM)	213121
	1G33H0160	1G33-H0160 (TANDEM)	214121
	1G33H0163	1G33-H0163	214121
	1G33H0171	1G33-H0171	213121
	1G33H0175	1G33-H0175	224121
	1G33H0176	1G33-H0176	224121
	1G33H0177	1G33-H0177	223121
	1G33H0185	1G33-H0185	224121
	1G33H0199	1G33-H0199	223121
	1G33H0200	1G33-H0200	224121
	1G33H0202	1G33-H0202	224121
F1.10	1G33H0208	1G33-H0208	224121
F1.10	1G33H0210	1G33-H0210	225121
F1.10	1G33H0211	1G33-H0211	225121
F1.10	1G33H0212	1G33-H0212	224121
F1.10	1G33H0213	1G33-H0213	224122
F2.10	1G33H0215	1G33-H0215	224121
F2.10	1G33H0216	1G33-H0216	224121
F2.10	1G33H0217	1G33-H0217	225121
F2.10	1G33H0218	1G33-H0218	225121
F2.10	1G33H0219	1G33-H0219	225121
F2.10	1G33H0220	1G33-H0220	225121
F2.10	1G33H0221	1G33-H0221	225121
F2.10	1G33H0222	1G33-H0222	225121
F2.10	1G33H0223	1G33-H0223	225121
F2.10	1G33H0224	1G33-H0224 (TANDEM)	225121
	1G33H0228	1G33-H0228 (TANDEM)	223121
	1G33H0234	1G33-H0234	223121
	1G33H0236	1G33-H0236	214121
	1G33H0237	1G33-H0237	214121
F2.10	1G33H0239	1G33-H0239	224121
F2.10	1G33H0240	1G33-H0240	224121
	1G33H0250	1G33-H0250	224121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1G33H0268	1G33-H0268 (TANDEM)	224121
F2.10	1G33H0269	1G33-H0269	223121
	1G33H0272	1G33-H0272	213121
F1.10	1G33H0274	1G33-H0274	224121
F1.10	1G33H0276	1G33-H0276	222122
F1.10	1G33H0277	1G33-H0277	222121
F1.10	1G33H0279	1G33-H0279	222122
F1.10	1G33H0280	1G33-H0280	222121
F1.10	1G33H0281	1G33-H0281	223122
F1.10	1G33H0282	1G33-H0282	224121
F1.10	1G33H5001	1G33-H5001	223122
F3.10	1G41H0012	1G41-H0012 (TANDEM)	212211
F3.10	1G41H0025	1G41-H0025	213211
F3.10	1G41H0037	1G41-H0037 (TANDEM)	214211
F3.10	1G41H0048	1G41-H0048	216211
F3.10	1G41H0050	1G41-H0050	214211
F3.10	1G41H0051	1G41-H0051	214211
F3.10	1G41H0059	1G41-H0059	214211
F3.10	1G41H0068	1G41-H0068	214211
F3.10	1G41H0070	1G41-H0070	213211
F3.10	1G41H0119	1G41-H0119	214211
F3.10	1G41H0121	1G41-H0121	216211
	1G41H0138	1G41-H0138	214211
	1G41H0143	1G41-H0143	214211
	1G41H0145	1G41-H0145	215211
	1G41H0149	1G41-H0149	215211
	1G41H0151	1G41-H0151 (TANDEM)	214211
F3.10	1G41H0170	1G41-H0170	215211
F3.10	1G41H0171	1G41-H0171	215211
F3.10	1G41H0179	1G41-H0179	214211
F5.10	1G41H0181	1G41-H0181	215211
	1G41H0182	1G41-H0182	215211
F5.10	1G41H0183	1G41-H0183	214211
F5.10	1G41H0185	1G41-H0185	215211
F3.10	1G41H0191	1G41-H0191	214211
F3.10	1G41H0227	1G41-H0227	214211
F3.10	1G41H0228	1G41-H0228 (TANDEM)	214211
F3.10	1G41H0230	1G41-H0230	214211
F3.10	1G41H0232	1G41-H0232	214211
F3.10	1G41H0233	1G41-H0233	214211
F3.10	1G41H0236	1G41-H0236 (TANDEM)	214211
F3.10	1G41H0238	1G41-H0238	215211
F3.10	1G41H0241	1G41-H0241	214211
F3.10	1G41H0242	1G41-H0242 (TANDEM)	216211
F3.10	1G41H0243	1G41-H0243	214211
F3.10	1G41H0301	1G41-H0301	213211
	1G41H0321	1G41-H0321	216211
	1G41H0322	1G41-H0322	216211
	1G41H0330	1G41-H0330	215211
	1G41H0331	1G41-H0331	215211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1G41H0332	1G41-H0332	216211
	1G41H0333	1G41-H0333	216211
	1G41H0342	1G41-H0342	215211
	1G41H0343	1G41-H0343	215211
	1G41H0344	1G41-H0344	214211
	1G41H0345	1G41-H0345	215211
	1G41H0346	1G41-H0346	215211
	1G41H0352	1G41-H0352	215211
F3.10	1G41H0363	1G41-H0363	214211
F3.10	1G41H0368	1G41-H0368	216211
F3.10	1G41H0369	1G41-H0369	215211
F3.10	1G41H0388	1G41-H0388	215211
F3.10	1G41H0389	1G41-H0389	215211
	1G41H0397	1G41-H0397	214211
	1G41H0398	1G41-H0398	214211
F3.10	1G41H0450	1G41-H0450 (TANDEM)	214211
	1G41H0466	1G41-H0466	213211
F3.10	1G41H0472	1G41-H0472	214211
	1G41H0474	1G41-H0474	214211
	1G41H0475	1G41-H0475	215211
F3.10	1G41H0478	1G41-H0478	214211
F5.10	1G41H0483	1G41-H0483	214211
F3.10	1G41H0493	1G41-H0493	214211
F3.10	1G41H0494	1G41-H0494	215211
	1G41H1009	1G41-H1009	221211
	1G41H1011	1G41-H1011	221211
	1G41H1025	1G41-H1025	221211
	1G41H1026	1G41-H1026	221211
	1G41H1027	1G41-H1027	221211
F3.10	1G41H5001	1G41-H5001 (TANDEM)	214211
F3.10	1G42H0004	1G42-H0004	214211
F3.10	1G42H0010	1G42-H0010	214211
F3.10	1G42H0013	1G42-H0013	214211
F3.10	1G42H0048	1G42-H0048	215211
	1G50H0068	1G50-H0068	222211
	1G61H0038	1G61-H0038	214211
	1G61H0045	1G61-H0045	211211
	1H22H0208	1H22-P0004-H1042	221121
	1H22H0209	1H22-P0004-H1043	221121
	1H22H0329	1H22-P0004-H1167	221121
	1H22H0347	1H22-P0004-H1186	221121
	1H22H0359	1H22-P0004-H1199	221121
	1H22H0365	1H22-P0004-H1206	221121
	1H22H0379	1H22-P0004-H1220	221121
	1H22H0389	1H22-P0004-H1230	221121
	1H22H0407	1H22-P0004-H1251	221121
	1H22H0408	1H22-P0004-H1252	221121
	1H22H0409	1H22-P0004-H1253	221121
	1H22H0554	1H22-P0005-H1065	221121
	1H22H0556	1H22-P0005-H1067	221121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1H22H0558	1H22-P0005-H1069	221121
	1H22H0561	1H22-P0005-H1072	221121
	1H22H0564	1H22-P0005-H1075	221121
	1H22H0701	1H22-P0006-H1034	221121
	1H22H0704	1H22-P0006-H1037	221121
	1H22H0705	1H22-P0006-H1038	221121
	1H22H0710	1H22-P0006-H1043	221121
	1H22H0711	1H22-P0006-H1046	221121
	1H22H0712	1H22-P0006-H1047	221121
	1H22H1702	1H22-P0015-H1042	221121
	1H22H1743	1H22-P0015-H1085	221121
	1H22H1744	1H22-P0015-H1086	221121
	1H22H1791	1H22-P0015-H1133	221121
	1H22H1793	1H22-P0015-H1136	221121
	1H22H1890	1H22-P0015-H1260	221121
	1H22H1894	1H22-P0015-H1267	221121
	1H22H1896	1H22-P0015-H1269	221121
	1H22H1897	1H22-P0015-H1270	221121
	1H22H1898	1H22-P0015-H1271	221121
	1H22H1899	1H22-P0015-H1272	221121
	1H22H1900	1H22-P0015-H1273	221121
	1H22H1901	1H22-P0015-H1274	221121
	1H22H1904	1H22-P0015-H1277	221121
	1H22H1909	1H22-P0015-H1290	221121
	1H22H1910	1H22-P0015-H1291	221121
	1H22H1912	1H22-P0015-H1293	221121
	1H22H1913	1H22-P0015-H1294	221121
	1H22H1915	1H22-P0015-H1297	221121
	1H22H2065	1H22-P0022-H1037	221121
	1H22H2068	1H22-P0022-H1040	221121
	1H22H2070	1H22-P0022-H1042	221121
	1H22H2077	1H22-P0022-H1049	221121
	1H22H2078	1H22-P0022-H1050	221121
	1H22H2274	1H22-P0025-H1122	222121
	1H22H2315	1H22-P0025-H1163	221121
	1H22H2317	1H22-P0025-H1165	221121
	1H22H2318	1H22-P0025-H1166	221121
	1H22H2322	1H22-P0025-H1171	221121
	1H22H2323	1H22-P0025-H1172	221121
	1H22H2327	1H22-P0025-H1181	221121
	1H22H2328	1H22-P0025-H1186	221121
	1H22H2329	1H22-P0025-H1190	222121
	1H22H2330	1H22-P0025-H1191	221121
	1H22H2331	1H22-P0025-H1192	221121
	1H22H2332	1H22-P0025-H1193	221121
	1H22H2335	1H22-P0025-H1197	221121
	1H22H2339	1H22-P0025-H1201	221121
	1H22H2483	1H22-P0026-H1073	221121
	1H22H2495	1H22-P0026-H1086	221121
	1H22H2498	1H22-P0026-H1089	221121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1H22H2683	1H22-P0027-H1058	221121
	1H22H2687	1H22-P0027-H1062	221121
	1H22H2706	1H22-P0027-H1083	221121
	1H22H2710	1H22-P0027-H1087	221121
	1H22H2744	1H22-P0027-H1122	221121
	1H22H2754	1H22-P0027-H1132	221121
	1H22H2755	1H22-P0027-H1133	221121
	1H22H2756	1H22-P0027-H1134	221121
	1H22H2751	1H22-P0027-H1140	221121
	1H22H2764	1H22-F0027-H1143	221121
	1H22H2873	1H22-P0041-H3022	222121
	1H22H2891	1H22-P0041-H3040	221121
	1H22H2917	1H22-P0041-H3069	222121
	1H22H2926	1H22-P0041-H3078	223121
	1H22H2936	1H22-P0041-H3088	221121
	1H22H2939	1H22-P0041-H3092	221121
	1H22H2941	1H22-P0041-H3094	221121
	1H22H2942	1H22-P0041-H3095	222121
	1H22H2951	1H22-P0041-H3126	221121
	1H22H2957	1H22-P0041-H3135	221121
	1H22H2958	1H22-P0041-H3136	221121
	1H22H2961	1H22-P0041-H3139	221121
	1H22H2962	1H22-P0041-H3140	221121
	1H22H2964	1H22-P0041-H3142	222121
	1H22H2965	1H22-P0041-H3143	222121
	1H22H2968	1H22-P0041-H3155	221121
	1H22H2969	1H22-P0041-H3158	221121
	1H22H2971	1H22-P0041-H3161	221121
	1H22H2973	1H22-P0041-H3163	221121
	1H22H3094	1H22-P0042-H1035	221121
	1H22H3097	1H22-P0042-H1038	221121
	1H22H3131	1H22-P0042-H1074	221121
	1H22H3132	1H22-P0042-H1075	221121
	1H22H3211	1H22-P0042-H1177	221121
	1H22H3212	1H22-P0042-H1178	221121
	1H22H3215	1H22-P0042-H1181	221121
	1H22H3216	1H22-P0042-H1182	221121
	1H22H3221	1H22-P0042-H1187	221121
	1H22H3222	1H22-P0042-H1188	221121
	1H22H3224	1H22-P0042-H1190	221121
	1H22H3226	1H22-P0042-H1192	221121
	1H22H3227	1H22-P0042-H1193	221121
	1H22H4577	1H22-P0021-H0203	211121
	1H51H0068	1H51-P1368-H0068	211111
	1H51H0073	1H51-P1368-H0073	211111
	1H51H0078	1H51-P1368-H0078	211111
	1H51H0083	1H51-P1368-H0083	211111
	1H51H0301	1H51-P1370-H3013	221111
	1M14H0005	1M14-H0005	215211
	1M14H0007	1M14-H0007	215211

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1M17H0002	1M17-H0002	214211
	1M17H0003	1M17-H0003	214211
	1M17H0005	1M17-H0005	214211
	1M17H0006	1M17-H0006	214211
	1M17H0008	1M17-H0008	214211
	1M17H0009	1M17-H0009	214211
	1M17H0011	1M17-H0011	214211
	1M17H0012	1M17-H0012	214211
	1M51H0054	1M51-H0054	214211
	1M51H0055	1M51-H0055	212211
	1M51H0068	1M51-H0068	222211
	1M51H0070	1M51-H0070	214211
	1M51H0071	1M51-H0071	212211
	1M51H0089	1M51-H0089	222211
	1M51H1024	1M51-H1024	221211
	1M51H1028	1M51-H1028	212211
	1M51H1031	1M51-H1031	212211
	1M51H1076	1M51-H1076	211211
	1N11H0205	1N11-H0205	227121
	1N11H0206	1N11-H0206	227121
	1N11H0207	1N11-H0207	227121
	1N11H0208	1N11-H0208	227121
	1N11H0278	1N11-H0278	226121
	1N11H0279	1N11-H0279	226121
	1N11H0280	1N11-H0280	226121
	1N11H0281	1N11-H0281	226121
	1N11H0282	1N11-H0282	226121
	1N11H0283	1N11-H0283	226121
	1N11H0284	1N11-H0284	226121
	1N11H0285	1N11-H0285	226121
	1N11H0286	1N11-H0286	125121
	1N11H0287	1N11-H0287	125121
	1N11H0288	1N11-H0288	125121
	1N11H0289	1N11-H0289	125121
	1N11H0290	1N11-H0290	227121
	1N11H0291	1N11-H0291	227121
	1N11H0292	1N11-H0292	227121
	1N11H0293	1N11-H0293	227121
	1N11H0294	1N11-H0294	227121
	1N11H0295	1N11-H0295	227121
	1N11H0357	1N11-H0357	227121
	1N11H0358	1N11-H0358	227121
	1N11H0468	1N11-H0468	226121
	1N11H0469	1N11-H0469	226121
	1N11H0470	1N11-H0470	226121
	1N11H0471	1N11-H0471	226121
	1N11H0472	1N11-H0472	226121
	1N11H0473	1N11-H0473	226121
	1N11H0474	1N11-H0474	226121
	1N11H0475	1N11-H0475	226121

ITEM NO	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F1.10	1N22H0003	1N22-H0003	223121
F1.10	1N22H0004	1N22-H0004	223121
F1.10	1N22H0006	1N22-H0006	224121
F1.10	1N22H0007	1N22-H0007	223121
F1.10	1N22H0008	1N22-H0008	223121
F1.10	1N22H0009	1N22-H0009	222121
F1.10	1N22H0011	1N22-H0011	223121
F1.10	1N22H0012	1N22-H0012	223121
F1.10	1N22H0013	1N22-H0013	223121
F1.10	1N22H0014	1N22-H0014	223121
F1.10	1N22H0015	1N22-H0015	223121
F1.10	1N22H0016	1N23-H0016	223121
F1.10	1N22H0017	1N22-H0017	223121
	1N22H0025	1N22-H0025	224121
	1N22H0029	1N22-H0029	224121
	1N22H0030	1N22-H0030	224121
	1N22H0036	1N22-H0036	224121
	1N22H0038	1N22-H0038	221121
	1N22H0040	1N22-H0040	221121
	1N22H0044	1N22-H0044	221121
	1N22H0046	1N22-H0046	221121
	1N22H0048	1N22-H0048	221121
	1N22H0050	1N22-H0050	221121
	1N22H0052	1N22-H0052	221121
	1N22H0055	1N22-H0055	221121
	1N22H0056	1N22-H0056	222121
	1N22H0057	1N22-H0057	221121
	1N22H0059	1N22-H0059 (TANDEM)	221121
	1N22H0060	1N22-H0060	221121
	1N22H0062	1N22-H0062	221121
	1N22H0064	1N22-H0064	221121
	1N22H0065	1N22-H0065	221121
	1N22H0066	1N22-H0066	221121
	1N22H0068	1N22-H0068	222121
	1N22H0070	1N22-H0070	221121
	1N22H0072	1N22-H0072	221121
	1N22H0074	1N22-H0074	221121
	1N22H0078	1N22-H0078	223121
	1N22H0079	1N22-H0079	221121
	1N22H0081	1N22-H0081	221121
	1N22H0083	1N22-H0083 (TANDEM)	221121
	1N22H0084	1N22-H0084 (TANDEM)	221121
	1N22H0087	1N22-H0087	221121
	1N22H0089	1N22-H0089	222121
	1N22H0091	1N22-H0091	221121
	1N22H0093	1N22-H0093	221121
	1N22H0095	1N22-H0095	223121
	1N22H0097	1N22-H0097	221121
	1N22H0099	1N22-H0099	221121
	1N22H0100	1N22-H0100	221121

ITEM NO.	NPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1N22H0101	1N22-H0101	221121
	1N22H0109	1N22-H0109	223121
	1N22H0111	1N22-H0111	221121
	1N22H0113	1N22-H0113	221121
	1N22H0115	1N22-H0115	221121
	1N22H0116	1N22-H0116	221121
	1N22H0117	1N22-H0117 (TANDEM)	221121
	1N22H0119	1N22-H0119 (TANDEM)	221121
	1N22H0121	1N22-H0121 (TANDEM)	221121
	1N22H0123	1N22-H0123 (TANDEM)	221121
F1.10	1N22H0126	1N22-H0126	222121
F1.10	1N22H0127	1N22-H0127	223121
F1.10	1N22H0128	1N22-H0128	222121
F1.10	1N22H0129	1N22-H0129	223121
F1.10	1N22H0130	1N22-H0130	224121
F1.10	1N22H0131	1N22-H0131	223121
	1N22H0146	1N22-H0146	222121
	1N22H0147	1N22-H0147	222121
F1.10	1N22H0148	1N22-H0148	223121
	1N22H0255	1N22-H0255	222121
	1N22H0257	1N22-H0257	222121
	1N22H0259	1N22-H0259	222121
F1.10	1N27H0001	1N27-H0001	123121
F1.10	1N27H0002	1N27-H0002	123121
F1.10	1N27H0004	1N27-H0004	123121
F1.10	1N27H0005	1N27-H0005	123121
F1.10	1N27H0006	1N27-H0006	124121
F1.10	1N27H0007	1N27-H0007	124121
F1.10	1N27H0008	1N27-H0008	122121
F1.10	1N27H0009	1N27-H0009	122121
F1.10	1N27H0013	1N27-H0013	123121
F1.10	1N27H0014	1N27-H0014	123121
F1.10	1N27H0016	1N27-H0016	123121
F1.10	1N27H0017	1N27-H0017	123121
F1.10	1N27H0018	1N27-H0018	124121
F1.10	1N27H0019	1N27-H0019	124121
F1.10	1N27H0020	1N27-H0020	122121
F1.10	1N27H0021	1N27-H0021	122121
F1.10	1N27H0025	1N27-H0025	124121
F1.10	1N27H0026	1N27-H0026	124121
	1N27H0220	1N27-H0220	226121
	1N27H0221	1N27-H0221	226121
	1N27H0222	1N27-H0222	227121
	1N27H0223	1N27-H0223	226121
	1N27H0224	1N27-H0224	226121
	1N27H0225	1N27-H0225	227121
	1N27H0226	1N27-H0226	226121
	1N27H0227	1N27-H0227	227121
	1N27H1012	1N27-H1012	221121
	1N27H1016	1N27-H1016	221121

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
	1N27H1068	1N27-H1068	211121
	1N27H1C86	1N27-H1086	222121
	1N27H1145	1N27-H1145	221121
	1P11H0063	1P11-H0063	216211
	1P11H0065	1P11-H0065	215211
	1P11H0079	1P11-H0079	215211
	1P11H0083	1P11-H0083	215211
	1P11H0085	1P11-H0085	314211
	1P11H5000	1P11-H5000	216211
	1P41H0115	1P41-H0115	216111
	1P41H0121	1P41-H0121	214111
	1P42H0049	1P42-H0049	214111
	1P42H0050	1P42-H0050	214111
	1P42H0051	1P42-H0051	214111
	1P42H0052	1P42-H0052	214111
	1P42H0057	1P42-H0057	214111
	1P42H0058	1P42-H0058 (TANDEM)	214111
	1P42H0059	1P42-H0059	214111
	1P42H0060	1P42-H0060	213111
	1P42H0100	1P42-H0100	213111
	1P42H0154	1P42-H0154	211111
	1P42H0372	1P42-H0372	213111
	1P42H0388	1P42-H0388	213111
	1P42H0401	1P42-H0401	214111
	1P42H0422	1P42-H0422	214111
	1P42H0430	1P42-H0430	213111
	1P43H0047	1P43-H0047 (TANDEM)	215111
	1P43H0052	1P43-H0052	214111
F3.10	1P45H0069	1P45-H0069	214111
F3.10	1P45H0097	1P45-H0097	215111
F3.10	1P45H0104	1P45-H0104 (TANDEM)	214111
F3.10	1P45H0126	1P45-H0126	215111
F3.10	1P45H0132	1P45-H0132 (TANDEM)	214111
F3.10	1P45H0176	1P45-H0176 (TANDEM)	214111
F3.10	1P45H0177	1P45-H0177 (TANDEM)	214111
F3.10	1P45H0179	1P45-H0179	215111
F3.10	1P45H0183	1P45-H0183	215111
F3.10	1P45H0185	1P45-H0185 (TANDEM)	214111
F3.10	1P45H0186	1P45-H0186	215111
F3.10	1P45H0192	1P45-H0192	214111
F3.10	1P45H0212	1P45-H0212	215111
F3.10	1P45H0216	1P45-H0216	214111
F3.10	1P45H0222	1P45-H0222	215111
F3.10	1P45H0270	1P45-H0270	211111
F3.10	1P45H0292	1P45-H0292	214111
F3.10	1P45H0353	1P45-H0353 (TANDEM)	214111
	1N27H1016	1N27-H1016	221121
F3.10	1P45H0422	1P45-H0422	216111
F3.10	1P45H0440	1P45-H0440	211111
F3.10	1P45H0441	1P45-H0441	214111

ITEM NO.	MPL NO.	HANGER - MARK NO.	CATEGORY NO.
F3.10	1P45H0444	1P45-H0444	214111
F3.10	1P45H0445	1P45-H0445	214111
F3.10	1P45H0502	1P45-H0502	215111
F3.10	1P45H0509	1P45-H0509	215111
F3.10	1P45H0510	1P45-H0510	215111
F3.10	1P45H0512	1P45-H0512	216111
F3.10	1P45H0516	1P45-H0516	215111
F3.10	1P45H0521	1P45-H0521	215111
F3.10	1P45H0525	1P45-H0525 (TANDEM)	214111
F3.10	1P45H0526	1P45-H0526	215111
F2.10	1P45H0610	1P45-H0610 (TANDEM)	215111
F2.10	1P45H0611	1P45-H0611	216111
F3.10	1P45H0617	1P45-H0617 (TANDEM)	214111
F3.10	1P45H0684	1P45-H0684	214111
	1P45H1050	1P45-H1050	213111
	1P45H1068	1P45-H1068	213111
	1P45H1233	1P45-H1233	212111
	1P45H1234	1P45-H1234	212111
	1P45H1328	1P45-H1328	211111
F3.10	1P47H0278	1P47-H0278	215111
F3.10	1P47H0279	1P47-H0279	215111
	1P51H0037	1P51-H0037	212111
	1P52H1002	1P52-H1002	212111
	1P52H1020	1P52-H1020	213111
	1P54H0035	1P54-H0035	215111
	1P54H0049	1P54-H0049	216211
	1P61H0008	1P61-H0008	212221
	1P61H0009	1P61-H0009	211221
	1P61H5000	1P61-H5000	212221
	1P86H3014	1P86-H3014	211221
F3.10	1R48H0027	1R48-H0027 (TANDEM)	214221
F3.10	1R48H0028	1R48-H0028 (TANDEM)	213221
F3.10	1R48H0034	1R48-H0034 (TANDEM)	214221
F3.10	1R48H0035	1R48-H0035	213221
	2F42H0002	2F42-H0002	114211
	2F42H0003	2F42-H0003	114211
F5.10	2G41H0031	2G41-H0031	214211
F3.10	2G41H0033	2G41-H0033	214211
F3.10	2G41H0034	2G41-H0034	213211
F3.10	2G41H0036	2G41-H0036	214211
F3.10	2G41H0038	2G41-H0038	213221
F3.10	2P42H0050	2P42-H0050 (TANDEM)	214211
F3.10	2P42H0052	2P42-H0052	214211
	2P42H0061	2P42-H0061	211211
F3.10	2P42H0312	2P42-H0312	214211

## 8.0 SYSTEM PRESSURE TESTS

The VT-2 Visual Examination is the method of locating system/component boundary leakage. In order to detect leakage, systems must be placed in unique configurations to allow pressurization of the fluid within components. The guidance for establishing proper system conditions are provided within Article 5000, System Pressure Tests, for each component and general subsection of ASME Code, Section XI. Under proper system conditions the VT-2 visual examination will verify the structural integrity and leak tightness of safety-related components.

### 8.1 Terminology

#### Pressure Retaining Boundary Material

The component and component items used to maintain the system fluid inside the component pressure retaining components include: Valve (items: body, bonnet and flanged surface), Pump (items: casing, cover and flanged surface), Vessel (items: vessel, upper head, lower head and flanged surface) and piping system (items: piping and branch connections).

#### Non-Pressure Retaining Boundary Material

Component items manufactured and stamped as pressure retaining material but not classified as boundary material. Non-Pressure retaining material items include: Shafts, Stems, Valve Disks and Seats, Spray Nozzles, Packing, Gaskets, Seals, Insulating Material, Bolting, and Tack/Seal Welds.

#### Pressure

Pressure is the force or thrust exerted over a surface divided by its area. The unique classification for pressure conditions include:

- Design Pressure (Pd) - That pressure listed by the material certification specification or line specification.
- Nominal Pressure (Pc) - That pressure associated with the reactor coolant pressure boundary when the plant is operating at 100% Rated Reactor Power.
- Normal Pressure (Pn) - That pressure associated with the system during normal system operation.
- Safety Vlv Pressure (Psv) - That pressure associated with the lowest pressure setting among the number of safety or relief valves provided for overpressure protection within the boundary of the system to be tested.

## System Pressure Tests

Pressure tests are grouped by system operational requirements, associated safety class and frequency. The system pressure test are grouped as:

- Inservice - Conducted on systems (or components) required to operate during normal plant operation while the system is in service under operating pressure.
- Leakage - Conducted following opening and re-closing of a component in the Class 1 system after pressurization to nominal operating pressure.
- Functional - Conducted on systems (or components) not required to operate during normal plant operation. Tests are conducted within the system boundary pressurized under the test mode of systems operations.
- Hydrostatic - Conducted during a plant shutdown at a pressure above nominal operating pressure or system pressure for which overpressure protection is provided.
- Pneumatic - Conducted in lieu of a hydrostatic pressure test for Class 2 and Class 3 components.

### 8.2 Exemptions

No components within the pressure retaining boundary are exempt or excluded from the examination requirements, except as specified in the subparagraph for repairs and replacement, "where repaired or replaced components are isolable within a portion of the system, only that portion need be pressure tested."

### 8.3 Test Pressurization Boundaries

Pressurization boundaries are utilized to provide a scope of testing required to satisfy parts to be examined. The boundary limits are generally defined by the location of the safety class interface valves within the system.

#### 1. System Leakage Test

The boundary subject to test pressurization shall extend to the pressure retaining components within the system boundary containing pressurized reactor coolant under the plant mode of normal reactor startup. However, the VT-2 examination shall extend to and include the second closed valve at the boundary extremity.

#### 2. System Functional Test Boundary

The boundary subject to test pressurization shall include only those pressure retaining components within the system boundary pressurized under the test mode required during the performance of a periodic system or component functional test.

### 3. System Inservice Test Boundary

The boundary subject to test pressurization shall extend to those pressure retaining components under operating pressure during normal system service.

### 4. System Hydrostatic Test Boundary

The boundary subject to test pressurization shall include:

- a. By the system boundary (or each portion of the boundary) within which the components have the same minimum required classification and are designed to the same primary pressure rating as governed by the system function and the internal fluid operating conditions, respectively.
- b. Systems which share safety functions for different modes of plant operation, and within which the component classifications differ, shall be subject to separate system pressure tests of each portion of the system boundary having the same minimum required component classifications.
- c. Systems designed to operate at different pressures under several modes of plant operation or post-accident conditions shall be subject to a system pressure test within the test boundary defined by the operating mode with the higher pressure.
- d. Where the respective system primary pressure ratings on the suction and discharge sides of system pumps differ, the system test boundary shall be divided into two separate boundaries (such as suction side and discharge side test boundaries). In the case of positive displacement pumps, the boundary interface shall be considered as the pump.

### 8.4 Repair

After repairs by welding on the pressure retaining boundary material a system hydrostatic pressure test shall be performed. Items exempted for the system hydrostatic pressure test requirements are: Cladding repairs; heat exchanger tube plugging; piping, pump, and valve repairs that do not penetrate through the pressure boundary; pressure vessel repairs where the repaired cavity does not exceed 10% of the minimum design wall thickness; component connections, piping, and associated valves that are 1 inch nominal pipe size and smaller; and tube-to-tubesheet repair welds where such welds are made on the cladding.

### 8.5 Replacement

Replacement items shall be required to have proper certification documentation. The items and parts which are exempt from the requirement of replacements are: gaskets; instruments; electrical conducting and insulating material; piping, valves, and fittings 1 inch nominal pipe size and less, except that materials and primary stress levels shall be consistent with the requirements of the applicable Construction Code. Detailed stress analysis and consideration of secondary stress is not required; nonstructural pump and valve internals, except when the original equipment was constructed in accordance with a Construction Code or Code Case; and pump seal package and valve packing.

8.6 Reference Requirements for System Pressure Tests

The following table identifies paragraphs for compliance to the ASME Boiler and Pressure Vessel Code, Section XI, 1983 Edition; through Summer 1983 Addenda.

ASME CODE CLASS	SYSTEM PRESSURE TESTS	REPAIRS AND REPLACEMENT	EXAMINATION CATEGORY	CORRECTIVE MEASURES
1	IWA-5211(a) IWA-5211(d)  IWB-5210	IWA-5214  IWB-5220 IWB-5230	Table IWB-2500-1 Category B-P	IWA-5250
2	IWA-5211(a) IWA-5211(d)  IWB-5210	IWA-5212 IWA-5213  IWB-5220 IWB-5230	Table IWC-2500-1 Category C-H	IWA-5250
3	IWA-5211(a) IWA-5211(d)  IWB-5210	IWA-5212 IWA-5313  IWB-5220 IWB-5230	Table IWB-2500-1 Category D-A, D-B, D-C	IWA-5250

8.7 Relief Requests

When compliance to code specified testing requirements are not achievable relief must be requested. The following Pressure Test (PT) Reliefs are requested:

PR NO.  
PT-001 R-1  
PT-002 R-1  
PT-003 R-1

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I. Identification of Components

Class 2 systems/components attached to the Reactor Coolant Pressure Boundary (Class 1) which are not provided with either pressure or test isolation (i.e., instrumentation, drain, vent, and test piping). A list of valve numbers identifies the affected components (i.e., valves, piping systems and instruments).

II. ASME B&PV Section XI Requirements

IWA-5213(c) Test Condition Holding Time, "System Inservice Tests - no holding time required, provided the system has been in operation for at least 4 hours."

IWC-5210(a)(2) Test, "A system pressure test conducted during a system inservice test [IWA-5211(c)] for those systems required to operate during normal plant operation."

III. Relief Request

Relief is requested from using the requirement of - operating the system for four hours before commencing the VT-2 examinations - for Class 2 components and instruments non-isolable from the Reactor Coolant Pressure Boundary (Class 1). These components shall be examined (VT-2 Visual Examination) during the Class 1 Reactor Coolant Boundary System Leakage Pressure Test at the frequency intervals specified within Subsection IWC. Thus, this relief request proposes substituting IWA-5213(a) for IWA-5213(c) and IWB-5210(a)(1) for IWC-5210(a)(2).

IV. Basis for Relief

Numerous components attached to the reactor coolant pressure boundary are covered by the provisions of 10CFR50.55a(c) Reactor Coolant Pressure Boundary. The following except from 10CFR50a(c) is provided:

"(2) Components which are connected to the reactor coolant system and are part of the reactor coolant pressure boundary as defined in Section 50.2 shall not meet the requirements of paragraph (c)(1) of this section, Provided:

(i) In the event of postulated failure of the component during normal reactor operation the reactor can be shut down and cooled down in an orderly manner, assuming makeup is provided by the reactor coolant makeup system; or

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(ii) The component is or can be isolated from the reactor coolant system by two valves in series (both closed, both open, or one closed and the other open). Each open valve must be capable of automatic actuation and, assuming the other valve is open, its closure time must be such that, in the event of postulated failure of the component during normal reactor operation, each valve remains operable and the reactor can be shut down and cooled down in an orderly manner, assuming makeup is provided by the reactor coolant makeup system only."

The piping systems and their associated components connected to the reactor coolant pressure boundary and less than 1 inch in diameter were constructed to the requirements of ASME Code, Section III, Subsection NC, and identified as Safety Class 2 for inservice inspection. The associated components and component parts are identified by valve number and listed below. These piping systems shall be pressurized during the Class 1 reactor coolant pressure boundary System Leakage Pressure Test and a VT-2 Visual Examination will be performed. The System Leakage Pressure Test frequency and pressure will be that required for a Class 2 System Inservice Test. Although the system will not have been in operation for four hours prior to commencing the examinations, the time required to bring the reactor coolant system up to test pressure will allow for the detection of leakage.

Within ASME Section XI the test conditions (i.e., pressure, temperature and hold time) between the reactor coolant pressure boundary and other safety systems are different. Although there are differences, all the system pressure tests ensure leak tightness. Therefore, the substitution of IWA-5213(a) for IWA-5213(c) and the substitution of IWB-5210(a)(1) for IWC-5210(a)(2) satisfies the intent of the Code.

V. Alternate Examination

N/A, VT-2 Visual Examination is performed.

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F068A/B	Recirc Pump A/B Discharge Valve Vent	D-302-601, 602
1B33-F070A/P	Recirc Pump A/B Discharge Valve Drain	D-302-601, 602
1B33-F065A/B	Recirc Loop A/B FCV Drain	D-302-601, 602
1B33-F647A/B	Recirc Loop A/B FCV Vent	D-302-601, 602
1B33-F686A/B	Recirc Loop A/B FCV Drain	D-302-601, 602
1B33-F025A/B	Recirc Pump A/B Suction Valve Vent	D-302-601, 602
1B33-F027A/B	Recirc Pump A/B Suction Valve Drain	D-302-601, 602
1B33-F503A/B	Instrument Isolation Valves for dPT-N015A/B,	D-302-602
-F504A/B	Respectively	
1B33-F505A	Instrument Isolation Valves for FT-N014C/D	D-302-602
-F506A		

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F505B -F506B	Instrument Isolation Valves for FT-N011B and FT-N024C/D	D-302-602
1B33-F507A -F508A	Instrument Isolation Valves for FT-N011A and FT-N014A/B	D-302-602
1B33-F507B -F508B	Instrument Isolation Valves for FT-N024A/B	D-302-602
1B33-F512A/B	Recirc Pump A/B Diff Pressure Instrument Vent	D-302-602
1B33-F513A/B	Recirc Pump A/B Diff Pressure Instrument Vent	D-302-602
1B33-F577	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F578	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F579	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F580	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F581	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F582	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F583	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F584	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F059	Recirc System Sample Isolation	D-302-602
1B33-F019	Reactor Water Sample Isolation	D-302-602
1B33-F110	Rx Recirc Sample Line Drain	D-302-602
1G33-F507	Instrument Isolation Valve for FT-N037	D-302-671
1G33-F523	RWCU Bottom Head Flow Instrument Vent	D-302-671
1E32-F506A -F544A	Instrument Isolation Valves for PT-N051A, PT-N061A	D-302-341
1E32-F506E -F544E	Instrument Isolation Valves for PT-N051E, PT-N061E	D-302-341
1E32-F506J -F544J	Instrument Isolation Valve for PT-N051J, PT-N061J	D-302-341
1E32-F506N -F544N	Instrument Isolation Valve for PT-N051N, PT-N061N	D-302-341
1B21-F596	1B21-F016 Test Connection Root Valve	D-302-121
1B21-F017	MST Drain and MSIV Bypass Line Drain	D-302-121
1N27-F551A/B/C	Feedwater Header A Branch Test Isolation	D-302-082
1N27-F551D/E/F	Feedwater Header B Branch Test Isolation	D-302-082
1N27-F557A/B	Feedwater Header A/B First Test Connection	D-302-082
1G33-F508A/B	Instrument Isolation valves for PT-N076A, PT-N076B	D-302-671, 962
1G33-F108	Pen 131 INBD Test Conn First Isolation Valve	D-302-671
1E31-F540B	RWCU Diff Flow LD Low Side Test Connection	D-302-962
1E31-F541B	RWCU Diff Flow LD High Side Test Connection	D-302-962
1E51-F528A/B/C/D	Instrument Isolation Valves for PT 1084A/B, PT-N085A/B	D-302-632, 961
1E31-F542A/B	RCIC/RHR ST Supply LD Low Stby Test Conn	D-302-961
1E31-F543A/B	RCIC/RHR ST Supply LD High Stby Test Conn	D-302-961
1E31-N084B-G	Cross-Tie Low Side PT-N094A/B	D-302-961
1E31-N084B-R	Cross-Tie High Side PT-N094A/B	D-302-961
1E31-F519	Instrument Isolation Valve For PT-N080A	D-302-705, 962
1E31-F545A	RHR A to LPCS LD High Side Test Connection	D-302-962
1E31-F523	Instrument Isolation Valve for PT-N081	D-302-701, 962
1E31-F547	HPCS to SLC Ref Diff Pressure Test Connection	D-302-962
1E31-F520	Instrument Isolation Valve for PT-N080A	D-302-642, 962
1E31-F544A	PHR A to LPCS LD Low Side Test Connection	D-302-962
1E31-F521	Instrument Isolation Valve for PT-N080B	D-302-642, 962

<u>Valve No.</u>	<u>Description</u>	<u>PAID No.</u>
1F31-F522	Instrument Isolation Valve for FT-N080B	D-302-642, 962
21-F502	LPCS to Rx Line Test Connection	D-302-705
22-F501	HPCS to Rx Line Test connection	D-302-701
241-F501	SLC Discharge Line Inboard Drywell Drain Vlv	D-302-691
1E12-F508A	LPCI From RHR A Inbd First Test Connection	D-302-642
1E12-F508B	LPCI From RHR B Inbd First Test Connection	D-302-642
1E12-F508C	LPCI From RHR C Inbd First Test Connection	D-302-642
1E12-F501	Shutdown Cooling Suction Hdr Inbd First Conn	D-302-642
1E51-F072	RHR & RCIC Steam Supply Line Test Connection	D-302-632
1B33-F514	Recirc Jet Pump 15 Flow Instrument Vent	D-302-604
1B33-F515	Recirc Jet Pump 12 Flow Instrument Vent	D-302-604
1B33-F516	Recirc Jet Pump 18 Flow Instrument Vent	D-302-604
1B33-F517	Recirc Jet Pump 19 Flow Instrument Vent	D-302-604
1B33-F518	Recirc Jet Pump 15 Flow Instrument Vent	D-302-604
1B33-F519	Recirc Jet Pump 16 Flow Instrument Vent	D-302-604
1B33-F520	Recirc Jet Pump 17 Flow Instrument Vent	D-302-604
1B33-F521	Recirc Jet Pump 11 Flow Instrument Vent	D-302-604
1B33-F522	Recirc Jet Pump 13 Flow Instrument Vent	D-302-604
1B33-F523	Recirc Jet Pump 20 Flow Instrument Vent	D-302-604
1B33-F524	Recirc Jet Pump 20 Flow Instrument Vent	D-302-604
1B33-F525	Recirc Jet Pump 14 Flow Instrument Vent	D-302-604
1B33-F526	Recirc Jet Pump 15 Flow Instrument Root FT-N038B, LT-N044D	D-302-604
1B33-F527	Recirc Jet Pump 12 Flow Instrument Root FT-N037F	D-302-604
1B33-F528	Recirc Jet Pump 18 Flow Instrument Root FT-N037H	D-302-604
1B33-F529	Recirc Jet Pump 19 Flow Instrument Root FT-N037S	D-302-604
1B33-F530	Recirc Jet Pump 15 Flow Instrument Root FT-N037U, FT-N038B	D-302-604
1B33-F531	Recirc Jet Pump 16 Flow Inst Root FT-N037D	D-302-604
1B33-F532	Recirc Jet Pump 17 Flow Inst Root FT-N037H	D-302-604
1B33-F533	Recirc Jet Pump 11 Flow Inst Root FT-N037B	D-302-604
1B33-F534	Recirc Jet Pump 13 Flow Inst Root FT-N037K	D-302-604
1B33-F535	Recirc Jet Pump 20 Flow Inst Root FT-N038D	D-302-604
1B33-F536	Recirc Jet Pump 20 Flow Inst Root FT-N037V, FT-N038D	D-302-604
1B33-F537	Recirc Jet Pump 14 Flow Inst Root FT-N037P	D-302-604
1B33-F646	Jet Pump Post Accident Sample Isolation	D-302-604
1P87-F001	Reactor Recirc B Sample Isolation Valve	D-302-431
1B33-F538	Recirc Jet Pump 7 Flow Instrument Vent	D-302-603
1B33-F539	Recirc Jet Pump 9 Flow Instrument Vent	D-302-603
1B33-F540	Recirc Jet Pump 10 Flow Instrument Vent	D-302-603
1B33-F541	Recirc Jet Pump 1 Flow Instrument Vent	D-302-603
1B33-F542	Recirc Jet Pump 2 Flow Instrument Vent	D-302-603
1B33-F543	Recirc Jet Pump 5 Flow Instrument Vent	D-302-603
1B33-F544	Recirc Jet Pump 3 Flow Instrument Vent	D-302-603
1B33-F545	Recirc Jet Pump 10 Flow Instrument Vent	D-302-603
1B33-F546	Recirc Jet Pump 5 Flow Instrument Vent	D-302-603
1B33-F547	Recirc Jet Pump 4 Flow Instrument Vent	D-302-603
1B33-F548	Recirc Jet Pump 6 Flow Instrument Vent	D-302-603

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F549	Recirc Jet Pump 8 Flow Instrument Vent	D-302-603
1B33-F550	Recirc Jet Pump 7 Flow Instrument Root FT-N037G	D-302-603
1B33-F551	Recirc Jet Pump 9 Flow Instrument Root FT-N037R	D-302-603
1B33-F552	Recirc Jet Pump 10 Flow Instrument Root FT-N037V, FT-N038C	D-302-603
1B33-F553	Recirc Jet Pump 1 Flow Instrument Root FT-N037A	D-302-603
1B33-F554	Recirc Jet Pump 2 Flow Instrument Root FT-N037E	D-302-603
1B33-F555	Recirc Jet Pump 5 Flow Instrument Root FT-N038A, FT-N044C	D-302-603
1B33-F556	Recirc Jet Pump 3 Flow Instrument Root FT-N037J	D-302-603
1B33-F557	Recirc Jet Pump 4 Flow Instrument Root FT-N038C	D-302-603
1B33-F558	Recirc Jet Pump 5 Flow Instrument Root FT-N037T, FT-N038A	D-302-603
1B33-F559	Recirc Jet Pump 4 Flow Instrument Root FT-N037N	D-302-603
1B33-F560	Recirc Jet Pump 6 Flow Instrument Root FT-N037C	D-302-603
1B33-F561	Recirc Jet Pump 8 Flow Instrument Root FT-N037L	D-302-603
1B33-F570	Jet Pump Flow Instrument Vent	D-302-603
1B33-F571	Jet Pump Flow Instrument Isolation FT-N037G, FT-N037R, FT-N037V, FT-N037A, FT-N037E, FT-N037J, FT-N037T, FT-N037N, FT-N037C, FT-N037L	D-302-603
1B33-F645	Jet Pump Post Accident Sample Isolation	D-302-603
1P87-F007	Reactor Recirc A Sample Isolation Valve	D-302-431
1E31-F503	Instrument Isolation Valves for PT-N003A, PT-N086A, PT-N086B	D-302-961
1E31-F504		
1E31-F505	Instrument Isolation Valves for PT-N086C, PT-N086D	D-302-961
1E31-F506		
1E31-F507	Instrument Isolation Valves for PT-N003B, PT-N087A, PT-N087B	D-302-961
1E31-F508		
1E31-F509	Instrument Isolation Valves for PT-N087C, PT-N087D	D-302-961
1E31-F510		
1E31-F570	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F571	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F572	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F573	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F574	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F575	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F576	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F577	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F511	Instrument Isolation Valves for PT-N088A, PT-N088B	D-302-961
1E31-F512		
1E31-F513	Instrument Isolation Valves for PT-N003C, FT-N088C, FT-N088D	D-302-961
1E31-F514		

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1E31-F515 -F516	Instrument Isolation Valves for PT-N089A, PT-N089B	D-302-961
1E31-F517 -F518	Instrument Isolation Valves for PT-N003D, PT-N089C, PT-N089D	D-302-961
1E31-F578	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F579	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F580	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F581	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F582	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F583	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F584	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F585	Main Steam Line D Flow Instrument Test Conn	D-302-961
1B21-F512	Instrument Isol Valve for LT-N027, LT-N017	D-302-606
1B21-F514	Instrument Isol Valve for LT-N095B, PT-N403B, PI-R004B, PT-N058, PT-N403F, PT-N068B, PT-N008B, PT-N068F, PT-N040, PT-N078B, PT-N062B, PT-N004B, LT-N080B, LT-N490, LT-N091B, LT-N402B, LT-N091F, dPI-R009B, LT-N081B	D-302-606
1B21-F510	Instrument Isolation Valve for PT-N073D, LT-N080D, LT-N073L, LT-N073R, LT-N081D, LT-N402F, LT-N044D	D-302-606
1B21-F542	RPV Level Instrument Line Drain	D-302-606
1B21-F511	Instrument Isolation Valve for LT-N080D, dPI-R005	D-302-606
1B21-F544	RPV Level Instrument Line Vent	D-302-606
1B21-F546	RPV Level Instrument Line Drain	D-302-606
1B21-F515	Instrument Isolation Valve for LT-N080B, LT-N004, LT-N017, LT-N027, LT-N095B	D-302-606
1B21-F551	RPV Level Instrument Line Vent	D-302-606
1B21-F540	RPV Level Instrument Line Drain	D-302-606
1B21-F545	RPV Level Instrument Line Vent	D-302-606
1B21-F509	Instrument Isolation Valve for LT-N073L, LT-N073R, LT-N081D, LT-N402F	D-302-606
1B21-F548	RPV Level Instrument Line Drain	D-302-606
1B21-F549	RPV Level Instrument Line Vent	D-302-606
1B21-F513	Instrument Isolation Valve for LT-N081B, LT-N091F, dPI-R009B, LT-N402B, LT-N091B	D-302-606
1B21-F583	Instrument Isolation Valve for PT-N081, dPT-N032	D-302-606, 962
1B21-F582	Jet Pump Instrument Line Vent	D-302-606
1B21-F585	Instrument Isolation Valve for dPT-N011, dPT-N008	D-302-606, 872
1B21-F523	Instrument Isolation Valve for Flow Instruments P009, dPI-R005, LT-N490, dPT-N032, FT-N037, FT-N032, dPI-R005	D-302-606, 604, 671
1B21-F584	Jet Pump Instrument Line Vent	D-302-606
1B21-F553	Instrument Isolation Valve for LT-N095A, PT-N403A, PI-R004A, PT-N403E, PT-N005, PT-N068A, PT-N050, PT-N068E, PT-N006, PT-N008A, PT-N078A, PT-N062A, LT-N004A, LT-N080A, LT-N010, LT-N091A, LT-N402A, dPI-R009A, LT-N091E, LT-N081A	D-302-606

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B21-F505	Instrument Isolation Valves for LT-N080C, PT-N078C, LT-N004C, LT-N073G, LT-N402E, LT-N073C, LT-N081C, LT-N044C	D-302-606
1B21-F536	RPV Level Instrument Line Drain	D-302-606
1B21-F506	Instrument Isolation Valve for LT-N080C, LT-N004C	D-302-606
1B21-F539	RPV Level Instrument Line Vent	D-302-606
1B21-F528	RPV Level Instrument Line Drain	D-302-606
1B21-F552	Instrument Isolation Valve for LT-N080A, LT-N004A, LT-N095A	D-302-606
1B21-F533	RPV Level Instrument Line Vent	D-302-606
1B21-F535	RPV Level Instrument Line Drain	D-302-606
1B21-F504	Instrument Isolation Valves for LT-N081C, LT-N073C, LT-N402E, LT-N073G	D-302-606
1B21-F534	RPV Level Instrument Line Vent	D-302-606
1B21-F529	RPV Level Instrument Line Drain	D-302-606
1B21-F555	Instrument Isolation Valve for LT-N081A, LT-N091E, dPI-R009A, LT-N402A, LT-N091A, LT-N010	D-302-606
1B21-F531	RPV Level Instrument Line Vent	D-302-606

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I. Identification of Components

Class 2 systems/components attached to the Reactor Coolant Pressure Boundary (Class 1) which are not provided with either pressure or test isolation (i.e., instrumentation, drain, vent, and test piping). A list of valve numbers identifies the affected components (i.e., valves, piping systems and instruments).

II. ASME B&PV Section XI Requirements

IWC-5210(a)(3) Test, "A system hydrostatic pressure test [IWA-5211(d)] for each system or portion of systems and for repaired or replaced components, or altered portions of systems."

IWC-5222(a) System Hydrostatic Test, "The system hydrostatic test pressure shall be at least 1.10 times the system pressure  $P_{SV}$  for systems with Design Temperature of 200°F or less, and at least 1.25 times the system pressure  $P_{SV}$  for systems with Design Temperature above 200°F. The system pressure  $P_{SV}$  shall be the lowest pressure setting among the number of safety or relief valves provided for overpressure protection within the boundary of the system to be tested. For systems (or portions of systems) not provided with safety or relief valves, the system design pressure  $P_d$  shall be substituted for  $P_{SV}$ ".

III. Relief Requested

Relief is requested from using the Class 2 System Hydrostatic Pressure Test requirements for Class 2 components and instruments non-isolable from the Reactor Coolant Pressure Boundary (Class 1). These components shall be examined (VT-2 Visual Examination) during the Class 1 Reactor Coolant Pressure Boundary System Hydrostatic Pressure Test at the frequency intervals specified within Subsection IWB. Thus, this relief request proposes substituting IWB-5210(a)(2) for IWC-5210(a)(3) and IWB-5222/IWB-5230 for IWC-5222(a).

IV. Basis For Relief

Numerous components attached to the Reactor Coolant Pressure Boundary are covered by the provisions of 10CFR50.55a(c) Reactor Coolant Pressure Boundary. The following excerpt from 10CFR50.55a(c) is provided:

"(2) Components which are connected to the reactor coolant system and are part of the reactor coolant pressure boundary as defined in Section 50.2 need not meet the requirements of paragraph (c)(1) of this section, Provided:

(i) In the event of postulated failure of the component during normal reactor operation, the reactor can be shut down and cooled down in an orderly manner, assuming makeup is provided by the reactor coolant makeup system; or

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(ii) The component is or can be isolated from the reactor coolant system by two valves in series (both closed, both open, or one closed and the other open). Each open valve must be capable of automatic actuation and, assuming the other valve is open, its closure time must be such that, in the event of postulated failure of the component during normal reactor operation, each valve remains operable and the reactor can be shut down and cooled down in an orderly manner, assuming no other relief is provided by the reactor coolant makeup system only."

The piping systems and their associated components less than 1 inch in diameter were constructed to the requirements of ASME Code, Section III, Subsection NC, and identified as Safety Class 2 for inservice inspection. The associated components and component parts are identified by valve number and listed below. These piping systems shall be pressurized during the Class 1 System Hydrostatic Pressure Test and a VT-2 Visual Examination will be performed. The frequency and hold time of the system hydrostatic pressure tests are identical for Class 1 and Class 2.

Within ASME Section XI the test conditions (i.e., pressure and temperature) between the reactor coolant pressure boundary and other safety systems are different. The Class 1 test pressure has a maximum limit of 1127.5 psig (Reference: Table IWB-5222-1, Test Pressure) with the Class 2 having its minimum test pressure at 1379 psig (Reference: IWC-5222(a) for design temperature greater than 200 degrees F). Because the piping systems and their associated components less than 1 inch in diameter for which relief is requested are non-isolable from the reactor coolant pressure boundary, and the maximum test pressure for the Class 1 reactor coolant pressure boundary System Hydrostatic Test is less than the minimum test pressure required for a Class 2 System Hydrostatic Test, hydrostatic testing of these Class 2 components is necessarily limited to the Class 1 System Hydrostatic Test pressure. Although there are differences, both the Class 1 and Class 2 hydrostatic pressure tests ensure structural integrity and leak tightness. Therefore, the substitution of IWB requirements for IWC satisfies the intent of the Code.

V. Alternate Examination

N/A, VT-2 Visual Examination is performed.

<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F068A/B	Recirc Pump A/B Discharge Valve Vent	D-302-601, 602
1B33-F070A/B	Recirc Pump A/B Discharge Valve Drain	D-302-601, 602
1B33-F065A/B	Recirc Loop A/B FCV Drain	D-302-601, 602
1B33-F647A/B	Recirc Loop A/B FCV Vent	D-302-601, 602
1B33-F686A/B	Recirc Loop A/B FCV Drain	D-302-601, 602
1B33-F025A/B	Recirc Pump A/B Suction Valve Vent	D-302-601, 602
1B33-F027A/B	Recirc Pump A/B Suction Valve Drain	D-302-601, 602

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<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F503A/B -F504A/B	Instrument Isolation Valves for dPT-N015A/B, Respectively	D-302-602
1B33-F505A -F506A	Instrument Isolation Valves for FT-N014C/D	D-302-602
1B33-F505B -F506B	Instrument Isolation Valves for FT-N011B and FT-N024C/D	D-302-602
1B33-F507A -F508A	Instrument Isolation Valves for FT-N011A and FT-N014A/B	D-302-602
1B33-F507B -F508B	Instrument Isolation Valves for FT-N024A/B	D-302-602
1B33-F512A/B	Recirc Pump A/B Diff Pressure Instrument Vent	D-302-602
1B33-F513A/B	Recirc Pump A/B Diff Pressure Instrument Vent	D-302-602
1B33-F577	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F578	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F579	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F580	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F581	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F582	Recirc Loop B Flow Instrument Vent	D-302-602
1B33-F583	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F584	Recirc Loop A Flow Instrument Vent	D-302-602
1B33-F059	Recirc System Sample Isolation	D-302-602
1B33-F019	Reactor Water Sample Isolation	D-302-602
1B33-F110	Rx Recirc Sample Line Drain	D-302-602
1B33-F020	Reactor Water Sample Isolation	D-302-602
1B33-F021	Recirc System Sample Test Connection	D-302-602
1G33-F507	Instrument Isolation Valve for FT-N037	D-302-671
1G33-F523	RWCU Bottom Head Flow Instrument Vent	D-302-671
1E32-F506A -F544A	Instrument Isolation Valves for PT-N051A, PT-N061A	D-302-341
1E32-F506E -F544E	Instrument Isolation Valves for PT-N051E, PT-N061E	D-302-341
1E32-F506J -F544J	Instrument Isolation Valve for PT-N051J, PT-N061J	D-302-341
1E32-F506N -F544N	Instrument Isolation Valve for PT-N051N PT-N061N	D-302-341
1B21-F596	1B21-F016 Test Connection Root Valve	D-302-121
1B21-F017	MST Drain and MSIV Bypass Line Drain	D-302-121
1N27-F551A/B/C	Feedwater Header A Branch Test Isolation	D-302-082
1N27-F551D/E/F	Feedwater Header B Branch Test Isolation	D-302-082
1N27-F557A/B	Feedwater Header A/B First Test Connection	D-302-082
1G33-F508A/B	Instrument Isolation Valves for PT-N076A, PT-N076B	D-302-671, 962
1G33-F108	Pen 131 INBD Test Conn First Isolation Valve	D-302-671
1E31-F540B	RWCU Diff Flow LD Low Side Test Connection	D-302-962
1E31-F541B	RWCU Diff Flow LD High Side Test Connection	D-302-962

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<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1E51-F528A/B/C/D	Instrument Isolation Valves for PT-N084A/B, PT-N085A/B	D-302-632, 961
1E31-F542A/B	RCIC/RHR ST Supply LD Low Stby Test Conn	D-302-632, 961
1E31-F543A/B	RCIC/RHR ST Supply LD High Stby Test Conn	D-302-632, 961
1E31-N084B-G	Cross-Tie Low Side PT-N084A/B	D-302-961
1E31-N084B-R	Cross-Tie High Side PT-N084A/B	D-302-961
1E31-F519	Instrument Isolation Valve For PT-N080A	D-302-705, 962
1E31-F545A	RHR A to LPCS LD High Side Test Connection	D-302-962
1E31-F523	Instrument Isolation Valve for PT-N081	D-302-70 962
1E31-F547	HPCS to SLC Ref Diff Pressure Test Connection	D-302-962
1E31-F520	Instrument Isolation Valve for PT-N080A	D-302-642, 962
1E31-F544A	RHR A to LPCS LD Low Side Test Connection	D-302-962
1E31-F521	Instrument Isolation Valve for PT-N080B	D-302-642, 962
1E31-F522	Instrument Isolation Valve for PT-N080B	D-302-642, 962
1E21-F502	LPCS to Rx Line Test Connection	D-302-705
1E22-F501	HPCS to Rx Line Test connection	D-302-701
1C41-F501	SLC Discharge Line Inboard Drywell Drain Vlv	D-302-691
1E12-F508A	LPCI From RHR A Inbd First Test Connection	D-302-642
1E12-F508B	LPCI From RHR B Inbd First Test Connection	D-302-642
1E12-F508C	LPCI From RHR C Inbd First Test Connection	D-302-642
1E12-F501	Shutdown Cooling Suction Hdr Inbd First Conn	D-302-642
1E51-F072	RHR & RCIC Steam Supply Line Test Connection	D-302-632
1B33-F514	Recirc Jet Pump 15 Flow Instrument Vent	D-302-604
1B33-F515	Recirc Jet Pump 12 Flow Instrument Vent	D-302-604
1B33-F516	Recirc Jet Pump 18 Flow Instrument Vent	D-302-604
1B33-F517	Recirc Jet Pump 19 Flow Instrument Vent	D-302-604
1B33-F518	Recirc Jet Pump 15 Flow Instrument Vent	D-302-604
1B33-F519	Recirc Jet Pump 16 Flow Instrument Vent	D-302-604
1B33-F520	Recirc Jet Pump 17 Flow Instrument Vent	D-302-604
1B33-F521	Recirc Jet Pump 11 Flow Instrument Vent	D-302-604
1B33-F522	Recirc Jet Pump 13 Flow Instrument Vent	D-302-604
1B33-F523	Recirc Jet Pump 20 Flow Instrument Vent	D-302-604
1B33-F524	Recirc Jet Pump 20 Flow Instrument Vent	D-302-604
1B33-F525	Recirc Jet Pump 14 Flow Instrument Vent	D-302-604
1B33-F526	Recirc Jet Pump 15 Flow Instrument Root FT-N038B, LT-N044D	D-302-604
1B33-F527	Recirc Jet Pump 12 Flow Instrument Root FT-NC37F	D-302-604
1B33-F528	Recirc Jet Pump 18 Flow Instrument Root FT-N037M	D-302-604
1B33-F529	Recirc Jet Pump 19 Flow Instrument Root FT-N037S	D-302-604
1B33-F530	Recirc Jet Pump 15 Flow Instrument Root FT-N037U, FT-N038B	D-302-604
1B33-F531	Recirc Jet Pump 16 Flow Inst Root FT-N037D	D-302-604
1B33-F532	Recirc Jet Pump 17 Flow Inst Root FT-N037H	D-302-604
1B33-F533	Recirc Jet Pump 11 Flow Inst Root FT-N037B	D-302-604

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<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F534	Recirc Jet Pump 13 Flow Inst Root FT-N037K	D-302-604
1B33-F535	Recirc Jet Pump 20 Flow Inst Root FT-N038D	D-302-604
1B33-F536	Recirc Je. Pump 20 Flow Inst Root FT-N037V, FT-N038D	D-302-604
1B33-F537	Recirc Jet Pump 14 Flow Inst Root FT-N037P	D-302-604
1B33-F646	Jet Pump Post Accident Sample Isolation	D-302-604
1P87-F001	Reactor Recirc B Sample Isolation Valve	D-302-431
1B33-F538	Recirc Jet Pump 7 Flow Instrument Vent	D-302-603
1B33-F539	Recirc Jet Pump 9 Flow Instrument Vent	D-302-603
1B33-F540	Recirc Jet Pump 10 Flow Instrument Vent	D-302-603
1B33-F541	Recirc Jet Pump 1 Flow Instrument Vent	D-302-603
1B33-F542	Recirc Jet Pump 2 Flow Instrument Vent	D-302-603
1B33-F543	Recirc Jet Pump 5 Flow Instrument Vent	D-302-603
1B33-F544	Recirc Jet Pump 3 Flow Instrument Vent	D-302-603
1B33-F545	Recirc Jet Pump 10 Flow Instrument Vent	D-302-603
1B33-F546	Recirc Jet Pump 5 Flow Instrument Vent	D-302-603
1B33-F547	Recirc Jet Pump 4 Flow Instrument Vent	D-302-603
1B33-F548	Recirc Jet Pump 6 Flow Instrument Vent	D-302-603
1B33-F549	Recirc Jet Pump 8 Flow Instrument Vent	D-302-603
1B33-F550	Recirc Jet Pump 7 Flow Instrument Root FT-N037G	D-302-603
1B33-F551	Recirc Jet Pump 9 Flow Instrument Root FT-N037R	D-302-603
1B33-F552	Recirc Jet Pump 10 Flow Instrument Root FT-N037V, FT-N038C	D-302-603
1B33-F553	Recirc Jet Pump 1 Flow Instrument Root FT-N037A	D-302-603
1B33-F554	Recirc Jet Pump 2 Flow Instrument Root FT-N037E	D-302-603
1B33-F555	Recirc Jet Pump 5 Flow Instrument Root FT-N038A, LT-N044C	D-302-603
1B33-F556	Recirc Jet Pump 3 Flow Instrument Root FT-N037J	D-302-603
1B33-F557	Recirc Jet Pump 10 Flow Instrument Root FT-N038C	D-302-603
1B33-F558	Recirc Jet Pump 5 Flow Instrument Root FT-N037T, FT-N038A	D-302-603
1B33-F559	Recirc Jet Pump 4 Flow Instrument Root FT-N037N	D-302-603
1B33-F560	Recirc Jet Pump 6 Flow Instrument Root FT-N037C	D-302-603
1B33-F561	Recirc Jet Pump 8 Flow Instrument Root FT-N037L	D-302-603
1B33-F570	Jet Pump Flow Instrument Vent	D-302-603
1B33-F571	Jet Pump Flow Instrument Isolation FT-N037G, FT-N037R, FT-N037V, FT-N037A, FT-N037E, FT-N037J, FT-N037T, FT-N037N, FT-N037C, FT-N037L	D-302-603

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<u>Valve No.</u>	<u>Description</u>	<u>P&amp;ID No.</u>
1B33-F645	Jet Pump Post Accident Sample Isolation	D-302-603
1P87-F007	Reactor Recirc A Sample Isolation Valve	D-302-431
1E31-F503	Instrument Isolation Valves for PT-N003A,	D-302-961
-F504	PT-N086A, PT-N086B	
1E31-F505	Instrument Isolation Valves for PT-N086C,	D-302-961
-F506	PT-N086D	
1E31-F507	Instrument Isolation Valves for PT-N003B,	D-302-961
-F508	PT-N087A, PT-N087B	
1E31-F509	Instrument Isolation Valves for PT-N087C,	D-302-961
-F510	PT-N087D	
1E31-F570	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F571	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F572	Main Steam Line A Flow Instrument Test Conn	D-302-961
1E31-F573	Main Steam Line A Flow Instrument Test Conn	C-302-961
1E31-F574	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F575	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F576	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F577	Main Steam Line B Flow Instrument Test Conn	D-302-961
1E31-F511	Instrument Isolation Valves for PT-N088A,	D-302-961
-F512	PT-N088B	
1E31-F513	Instrument Isolation Valves for PT-N003C,	D-302-961
-F514	PT-N088C, PT-N088D	
1E31-F515	Instrument Isolation Valves for PT-N089A,	D-302-961
-F516	PT-N089B	
1E31-F517	Instrument Isolation Valves for PT-N003D,	D-302-961
-F518	PT-N089C, PT-N089D	
1E31-F578	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F579	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F580	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F581	Main Steam Line C Flow Instrument Test Conn	D-302-961
1E31-F582	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F583	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F584	Main Steam Line D Flow Instrument Test Conn	D-302-961
1E31-F585	Main Steam Line D Flow Instrument Test Conn	D-302-961
1B21-F512	Instrument Isol Valve for LT-N027, LT-N017	D-302-606
1B21-F514	Instrument Isol Valve for LT-N095B, PT-N403B, PI-R004B, PT-N058, PT-N403F, PT-N068B, PT-N008B, PT-N068F, PT-N040, PT-N078B, PT-N062B, PT-N004B, LT-N080B, LT-N490, LT-N091B, LT-N402B, LT-N091F, dPI-R009B, LT-N081B	D-302-606
1B21-F510	Instrument Isolation Valve for PT-N078D, LT-N080D, LT-N073L, LT-N073R, LT-N081D, LT-N402F, LT-N044D	D-302-606
1B21-F542	RPV Level Instrument Line Drain	D-302-606
1B21-F511	Instrument Isolation Valve for LT-N080D, dPI-R005	D-302-606

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<u>Valve No.</u>	<u>Description</u>	<u>PAID No.</u>
1B21-F544	RPV Level Instrument Line Vent	D-302-606
1B21-F546	RPV Level Instrument Line Drain	D-302-606
1B21-F515	Instrument Isolation Valve for LT-N080B, LT-N004, LT-N017, LT-N027, LT-N095B	D-302-606
1B21-F551	RPV Level Instrument Line Vent	D-302-606
1B21-F540	RPV Level Instrument Line Drain	D-302-606
1B21-F545	RPV Level Instrument Line Vent	D-302-606
1B21-F509	Instrument Isolation Valve for LT-N073L, LT-N073R, LT-N081D, LT-N402F	D-302-606
1B21-F548	RPV Level Instrument Line Drain	D-302-606
1B21-F549	RPV Level Instrument Line Vent	D-302-606
1B21-F513	Instrument Isolation Valve for LT-N081B, LT-N091F, dPI-R009B, LT-N402B, LT-N091B	D-302-606
1B21-F583	Instrument Isolation Valve for PT-N081, dPT-N032	D-302-606, 962
1B21-F582	Jet Pump Instrument Line Vent	D-302-606
1B21-F585	Instrument Isolation Valve For dPT-N011, dPT-N008	D-302-606, 872
1B21-F523	Instrument Isolation Valve for Flow Instruments P009, dPI-R005, LT-N490, dPT-N032, FT-N037, FT-N032, dPI-R005	D-302-606, 604, 671
1B21-F584	Jet Pump Instrument Line Vent	D-302-606
1B21-F553	Instrument Isolation Valve for LT-N095A, PT-N403A, PI-R004A, PT-N403E, PT-N005, PT-N068A, PT-N050, PT-N068E, PT-N006, PT-N008A, PT-N078A, PT-N062A, LT-N004A, LT-N080A, LT-N010, LT-N091A, LT-N402A, dPI-R009A, LT-N091E, LT-N081A	D-302-606
1B21-F505	Instrument Isolation Valves for LT-N080C, PT-N078C, LT-N004C, LT-N073G, LT-N402E, LT-N073C, LT-N081C, LT-N044C	D-302-606
1B21-F536	RPV Level Instrument Line Drain	D-302-606
1B21-F506	Instrument Isolation Valve for LT-N080C, LT-N004C	D-302-606
1B21-F539	RPV Level Instrument Line Vent	D-302-606
1B21-F528	RPV Level Instrument Line Drain	D-302-606
1B21-F552	Instrument Isolation Valve for LT-N080A, LT-N004A, LT-N095A	D-302-606
1B21-F533	RPV Level Instrument Line Vent	D-302-606
1B21-F535	RPV Level Instrument Line Drain	D-302-606
1B21-F504	Instrument Isolation Valves for LT-N081C, LT-N073C, LT-N402E, LT-N073G	D-302-606
1B21-F534	RPV Level Instrument Line Vent	D-302-606
1B21-F529	RPV Level Instrument Line Drain	D-302-606
1B21-F555	Instrument Isolation Valve for LT-N081A, LT-N091E, dPI-R009A, LT-N402A, LT-N091A, LT-N010	D-302-606
1B21-F531	RPV Level Instrument Line Vent	D-302-606

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I. Identification of Components

Class 2 and 3 components which undergo routine quantitative pressurization tests in which no detectable leakage would be identified as the minimum equipment accuracy. (i.e., normally inclusive of valves, piping systems and penetrations). A listing of test pressurization boundaries are identified by penetration number.

II. ASME B&PV Section XI Requirements

IWA-5211 Test Description, "The pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed in accordance with IWA-5240 to detect leakages. The required system pressure tests and examinations, as referenced in Table IWA-5210-1, may be conducted in conjunction with one or more of the following system tests or operations: "(b) a system functional test, (d) a system hydrostatic test, and (e) a system pneumatic test.

IWA-2500(a) Examination and Pressure Test Requirements, "Components shall be examined and pressure tested as specified in Table IWC-2500-1. The method of examination for the components and parts of the pressure retaining boundaries shall comply with those tabulated in Table IWC-2500-1, except where alternate examination methods are used that meet the requirements of IWA-2240."

IWC-5210(a) Test, "The pressure retaining components within each system boundary shall be subjected to the following system pressure tests and visually examined by the method specified in Table IWC-2500-1, Examination Category C-4: "(1) a system pressure test conducted during a system functional test, and (3) a system hydrostatic pressure test.

IWC-5210(b) Test, "The system pressure tests and visual examinations shall be conducted in accordance with IWA-5000 and this Article. The contained fluid in the system shall serve as the pressurizing medium, except that in steam systems either water or air may be used. Where air is used, the test procedure shall permit the detection and location of through-wall leakages in components of the system tested."

IWD-2500(a) Examination and Pressure Test Requirements, "Components shall be examined and pressure tested as specified in Table IWD-2500-1. The method of examination for the components and parts of the pressure retaining boundaries shall comply with those tabulated in Table IWD-2500-1 except where alternate examination methods are used that meet the requirements of IWA-2240."

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IWD-5210(a) Test, "The pressure retaining components within the boundary of each system specified in the Examination Categories of Table IWD-2500-1 shall be pressure tested and examined in accordance with Table IWD-2500-1 during the following tests:" "(2) systems functional test, IWA-5211(b); (3) system hydrostatic test, IWA-5211(d)."

III. Relief Requested

Relief is requested from performance of VT-2 Visual Examination in conjunction with a system pressure test where the test pressurization boundary leakage is measured (makeup or pressure decay) and quantified as within the test equipment accuracy (no detectable leakage). The test pressurization boundaries are identified by penetration numbers. The boundary includes components and appurtenances which become pressurized during testing.

IV. Basis For Relief

Numerous Class 2 and 3 components undergo leak testing using the pressure makeup or pressure decay techniques. These tests require the measurement and quantification of the test pressurization boundary leakage. Performance of a VT-2 Examination would require walkdowns and may involve scaffolding erection in radiation areas. Pressure testing using air could additionally require insulation removal (and re-installation) for detecting leakage by VT-2 Visual Examination. The use of an alternative technique of no detectable leakage meets the ALARA policy at PNPP. The majority of pressure tests are to satisfy plant technical specifications for verifying plant component operability and structural integrity. The test equipment used to satisfy technical specifications has an accuracy and range unique to verify major safety concerns. The quantification as no detectable leakage is documented as minimum equipment accuracy (i.e., 20 sccm or 4.8 ml/min). The performance of a VT-2 Visual Examination during testing would not serve a useful purpose if no detectable leakage exists. Non-performance of the VT-2 visual examination would benefit ALARA without impacting on component reliability.

V. Alternate Examination

Quantifying leakage rates as no detectable leakage utilizing test instruments (calibrated equipment), rather than a VT-2 walkdown, is used as an alternative technique.

<u>Pen. No.</u>	<u>Designation</u>	<u>P&amp;ID No.</u>
P107	RHR Relief Line to Suppression Pool	D-302-641, 642, 705, 971
P108	Condensate Supply	D-302-102
P109	Containment Leak Test	D-302-811
P111	Condensate Return	D-302-102

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<u>Pen. No.</u>	<u>Designation</u>	<u>PAID No.</u>
P114	Containment Vacuum Relief	D-912-606
P115	RCIC Turbine Exhaust Vacuum Relief	D-302-631, 641, 642, 643
P117	Nitrogen Supply to CRD's	D-302-950
P118	RHK Heat Exchanger Vent	D-302-641, 642
P119	Containment Leak Rate	D-302-811
P120	Containment Leak Rate	D-302-811
P201	Drywell Atmosphere Radiation Monitor Line	D-306-004
P203	Fuel Pool Cooling Supply	D-302-651
P208	Containment Vacuum Relief	D-912-606
P210	Carbon Dioxide To Fire Protection System	D-914-005
P301	Fuel Pool Cooling Return	D-302-651
P302	Backup Hydrogen Purge System	D-302-831
P305	Lower Personnel Airlock	D-302-761
P309	Demineralized Water	D-302-713
P312	Upper Personnel Airlock	D-302-761
P317	Containment Atmosphere Radiation Monitor Line	D-806-007
P317	Containment Leak Rate	D-302-811
P318	Post LOCA Hydrogen Analyzer Line	D-302-431, 832
P319	Containment Leak Rate	D-302-811
P406	Fire Protection Water	D-914-003
P413	Post Accident Sampling	D-302-431
P417	Equipment Drain Sump to Radwaste	D-302-739
P418	Floor Drain Sump to Radwaste	D-302-740
P420	Backwash Tank to Radwaste	D-302-737
P424	RWCU to Main Condenser and Radwaste	D-302-672
P425	Post LOCA Hydrogen Analyzer Line	D-302-832
P428	Containment Vacuum Relief	D-912-606
P429	RHR Relief Line to Suppression Pool	D-302-431, 642, 643
P431	RHR Heat Exchanger Vent	D-302-642, 643
P436	Containment Vacuum Relief	D-912-606
V313	Purge Supply	D-912-604
V314	Purge Exhaust	D-912-604

## 9.0 CALIBRATION STANDARD DRAWINGS

### 9.1 Calibration Standards

Included in this section is a listing of NDE calibration standards required to perform ultrasonic examinations on piping and components subject to the examination requirements of ASME Section XI.

The UT calibration standard design and material selection is in accordance with the requirements of ASME Section V and XI as applicable. In addition to the required notches, drilled holes have been installed as additional reflectors in accordance with provisions of the applicable Codes.

The actual drawings are not included in this document at this time. They are in process of being fabricated as "As-Builts" and will be added upon completion.

Table 10-1 is a listing of the calibration standards required in the performance of reactor vessel examinations.

Table 10-2 is a listing of the calibration standards required in the performance of examinations on piping and components other than the reactor vessel.

TABLE 9-1

CALIBRATION STANDARD (REACTOR VESSEL)

<u>TITLE</u>	<u>NOMINAL WALL THICKNESS</u>	<u>MATERIAL SPECIFICATION</u>	<u>DRAWING NO.</u>
PY-SE-CS-1	.755"	SA105	80C7393
PY-SE-BI-1	.755"	SA508 C1-1 & SA336 C1-F8	80D7392
PY-SE-BI-2	.890"	SA508 C1-1 & SB166	80D7388
PY-SE-BI-3	1.145"	SA508 C1-1 & SB166	80E7390
PY-SE-BI-4	1.258"	SA508 C1-1 & SA182 F316L	80E7389
PY-SE-BI-5	1.498"	SA508 C1-1 & SA336 C1-F8	80D7391
PY-123-1-RPV	8.0"	SA553 Gr. B	80E7549 CBIN Dwg. VPF-3521-304
PY-124-1-RPV	7.35"	SA533 Gr. B	8037550
PY-125-1-RPV	6.75"	SA533 Gr. B	80E7551 CBIN Dwg. VPF-3521-306
PY-126-1-RPV	7.375"	SA533 Gr. B	80E7552 CBIN Dwg. VPF-3521-307
PY-127-1-RPV	3.88"	SA553 Gr. B	80E7553
PY-127-1-RPV	4.88"	SA553 Gr. B	80E7566
PY-FLG-1-RPV	7.4" X 35"	SA553 Gr. B	80D0661
PY-NUT-1-RPV-A	6.953"	SA540 Gr. B24	83D0662
PY-STUD-1-RPV-A	6" Dia.	SA540 Gr. B	80E7567
PY-IR-5.3	5.3"	SA533 Gr. B	83C0668
PY-IR-6.6	6.6"	SA533 Gr. B	83C0668
PY-IR-7.7	7.7"	SA533 Gr. B	83C0668

TABLE 9-1 (Cont.)

CALIBRATION STANDARD (REACTOR VESSEL)

<u>TITLE</u>	<u>NOMINAL WALL THICKNESS</u>	<u>MATERIAL SPECIFICATION</u>	<u>DRAWING NO.</u>
PY-26-080-CS	1.49"	SA155 KCF 70 C1-1	Later
PY-6-80-CS	0.432"	SA106, Grade B	80C0198
PY-6-120-CS	0.562"	SA106, Grade B	80C0198
PY-10-80-CS	0.593"	SA106, Grade B	80C0198
PY-10-100-CS	0.718"	SA106, Grade B	80C0198
PY-12-80-CS	0.687"	SA106, Grade B	80C0198
PY-12-100-CS	0.843"	SA106, Grade B	80C0198
PY-12-120-CS	1.00"	SA106, Grade B	80C0198
PY-14-80-CS	0.750"	SA106, Grade B	80C0198
PY-18-40-CS	0.562"	SA106, Grade B	80C0198
PY-20-40-CS	0.594"	SA106, Grade B	80C0198
PY-24-40-CS	0.687"	SA106, Grade B	80C0198
PY-16-100-CS	1.031"	SA106, Grade B	80C0199
PY-20-80-CS	1.031"	SA106, Grade B	80C0199
PY-20-100-CS	1.281"	SA106, Grade B	80C0199
PY-26-80-CS	1.499"	SA155, Grade KCF 70	80C0199
PY-26-XXI-CS	1.147"	SA155, Grade KCF 70	80C0199
PY-26-XX2-CS	1.321"	SA106, Grade B	80C0199
PY-4-80-CS	0.337"	SA106, Grade B	80A7387
PY-4-XX1-CS-F	0.337"	SA234, WPB	80D7385
PY-4-XX1-SS	0.325"	SA358, TP 304	80D7385
PY-6-XX1-CS-F	0.562"	SA234, WPB	80D7385
PY-8-100-CS	0.594"	SA106, Grade B	80D7385
PY-8-XX1-CS-F	0.594"	SA234, WPB	80D7385

TABLE 9-1 (Cont.)

CALIBRATION STANDARD (REACTOR VESSEL)

<u>TITLE</u>	<u>NOMINAL WALL THICKNESS</u>	<u>MATERIAL SPECIFICATION</u>	<u>DRAWING NO.</u>
PY-10-XX1-CS-F	0.718"	SA234, WPB	80D7385
PY-12-XX1-CS-F	0.688"	SA234, WPB	80D7385
PY-12-XX2-CS-F	0.843"	SA234, WPB	80D7385
PY-12-XX1-SS	0.700"	SA358, TP 304	80L7385
PY-12-80-SS-F	0.685"	SA403, WP 304 W	80D7385
PY-14-XX1-CS-F	0.750"	SA234, WPB	80D7385
PY-18-XX1-CS-F	0.562"	SA234, WPB	80D7385
PY-18-XX1-SS-F	0.562"	SA403, WP 304	80D7385
PY-20-XX1-CS-F	0.594"	SA234, WPB	80D7385
PY-24-XX1-CS-F	0.687"	SA234, WPB	80D7385
PY-10-XX2-CS-F	1.45"	SA105	80D7386
PY-12-XX3-CS-F	1.312"	SA234, WPB	80D7386
PY-16-XX1-CS-F	1.031"	SA234, WPB	80D7386
PY-16-100-SS	1.031"	SA358, TP 304	80D7386
PY-20-120-CS	1.500"	SA106, Grade B	80D7386
PY-20-XX1-SS-F	1.281"	SA182, F 316 L	80D7386
PY-22-XX1-SS	1.006"	SA358, TP 304	80D7386
PY-22-XX1-SS-F	1.13"	SA403, WP 304	80D7386
PY-24-XX1-SS	1.386"	SA358, TP 304	80D7386
PY-24-XX1-SS-F	1.735"	SA403, WP 304	80D7386
PY-24-XX2-SS-F	1.400"	SA403, WP 304	80D7386
PY-26-XX1-CS-F	1.414"	SA234, WPB	80D7386
PY-8-140-CS	2.406"	SA106, Grade C	80D7386

TABLE 9-1 (Cont.)

## CALIBRATION STANDARD (REACTOR VESSEL)

<u>TITLE</u>	<u>NOMINAL WALL THICKNESS</u>	<u>MATERIAL SPECIFICATION</u>	<u>DRAWING NO.</u>
PY-IR-RHR SA 105-CS	1.140"	SA105	Later
PY-STUD-LPCS 2.25 - CS	2.25"Ø	SA193 GR B7	80D7550
PY-STUD-RR- 3 - CS	3"Ø	SA540 GR B23, CLA	80D7549
PY-STUD-MS- 2.25-CS	2.25"Ø	SA540 GR B23, CL5	80D7551
PY-1.5-RHR	1.50"	SA516 GR 70 SA16GR70-CS	80D7548
PY-VALVE-XX2-CS	1.5"	SA105	80D7547
PY-VALVE-XX3-CS	1.12"	SA105	80D7547
PY-6-40-CS	.280"	SA106 Gr. B	80D7385
PY-8-40-CS	.322"	SA106 Gr. B	80D7385
PY-10-40-CS	.365"	SA106 GR. B	80D7385
PY-12-STD-CS	.375"	SA106 GR. B	80D7385
PY-12-40-CS	.406"	SA106 Gr. B	80D7385
PY-12-CLAD-SS	.688"	SA358 TP 304 & Clad-TP E308 L	83D0552
PY-12-SWEEP-SS	2.7"	SA403 WP 304	83C0804
PY-12-PEN-CS-2	6.5" X 3"	SA 105 & SA106 Gr. B	Tube Turns Dwg. 70195Y-C153.1
PY-14-40-CS	.438"	SA106 Gr. B	80D7385
PY-16-STD-CS	.375"	SA106 Gr. B	80D7385
PY-16-40-CS	.500"	SA106 Gr. B	80D7385
PY-16-CLAD-SS	1.03"	SA358 TP 304 & Clad-TP E308 L	83D0552

TABLE 9-1 (Cont.)CALIBRATION STANDARD (REACTOR VESSEL)

<u>TITLE</u>	<u>NOMINAL WALL THICKNESS</u>	<u>MATERIAL SPECIFICATION</u>	<u>DRAWING NO.</u>
PY-18-STD-CS	0.375"	SA106 Gr. B	80D7385
PY-22-CLAD-SS	1.0"	SA358 TP 304 & Clad-TP E308 L	83D0552
PY-22-XX2-SS-F	1.38"	SA403 WP 304 & Clad-TP E308 L	83D0805
PY-24-STD-CS	0.375"	SA106 Gr. B	80D7385
PY-24-CLAD-SS	1.315"	SA358 TP 304 & Clad-TP E308 L	83D0552
PY-1.5-RHR	5.3"	SA105	83C0551
PY-IR-RHR	1.5"	SA516 Gr. 70	80D7548
PY-VALVE-XX1-CS	2.2"	SA105	80D7547
PY-127-1-RPV	3.88"	SA533 Gr. B	80E7553
PY-128-1-RPV	4.86"	SA533 Gr. B	80E7586
PY-12-PEN-CS	6.5" X 3"	SA105/SA106 Gr. B	Later
PY-12-STD-CS	STD	SA106 Gr. B	80D3785
PY-SE-CS-2	1.5" NOM	SA516 Gr. 70	80C0194
PY-IR-N123	14"	SA508 CL2	2449-600
PY-IR-N456	14"	SA508 CL2	2449-601

## 10.0 ISI DRAWINGS

### 10.1 ISI Piping and Instrumentation Diagrams (P&ID's)

Included in Volume 2 of the ISEP are the ISI P&ID's delineating the ISI boundaries for piping systems subject to the requirements of ASME Section XI.

The ISI boundary classifications are developed specifically to define the extent of examination applicable to Section XI. The Section XI Class 1, 2 and 3 boundaries differ somewhat from the ASME Section III design boundaries. These differences occur as a result of systems, or portions of systems, being optionally upgraded in design.

The ISI classification boundaries are established by applying the provisions set forth in ASME Section XI, 10CFR50, Regulatory Guide 1.26 Revision 3, and NRC-REG-0600.

The actual drawings are color-coded, for ease of use. Due to reproduction limitations, only black and white copies are used in this document.

### 10.2 ISI Isometric Drawings

Also included in Volume 2 of the ISEP are the ISI isometric drawings delineating the components, welds, and supports which are subject to examination in accordance with the ISEP.

The ISI isometric drawings are established by applying the rules of ASME Section XI to components and systems which are not exempt from examination.

Each weld, support, and component subject to examination is identified by a unique number. These numbers are included on the isometrics with lines (arrows) identifying the particular item and its location within a system or component.

VALVES	VALVE OPERATORS	COMPONENTS	COMPONENTS	PIPING
GATE GLOBE BALL ANGLE BUTTERFLY SWING CHECK STOP CHECK TEEING DISC LIFT CHECK SAFETY OR RELIEF BACK PRESSURE REGULATOR PLUG OR BALL 3-WAY NEEDLE DELUGE POST-INDICATING CURB OR OPERATED	SEE BELOW ELECTRIC MOTOR SOLENOID PISTON DIAPHRAGM DIAPHRAGM FAIL OPEN DIAPHRAGM FAIL CLOSED EXTENSION STEM THRU SHIELD WALL MOTOR OPERATOR VALVE MPL AIR OPERATOR	U-TUBE HEAT EXCHANGER STRAIGHT TUBE HEAT EXCHANGER HORIZONTAL CENTRIFUGAL PUMP VERTICAL WET PIT CENTRIFUGAL PUMP POSITIVE DISPLACEMENT PUMP FAN, BLOWER OR COMPRESSOR TURBINE ACCUMULATOR	BASKET STRAINER DUAL BASKET STRAINER CARTRIDGE OR CONE TYPE FILTER TEMP. STRAINER SPRAY HEADER EJECTOR OR EDUCATOR EXPANSION JOINT VENTURI FLEXIBLE CONNECTION MANUAL DAMPER MOTOR OPERATED DAMPER THERMAL SLEEVE	LARGE BORE PIPE 2 1/2" AND LARGER SMALL BORE PIPE 2" AND SMALLER CONTROL AIR SIGNAL SPOOL PIECE REDUCER WELDED CAP THREADED CAP FLANGED CONNECTION OR BLIND FLANGE SPECTACLE FLANGE RESTRICTING ORIFICE W/SPECTACLE PLATE FLOW ORIFICE OPEN DRAIN FUNNEL CONTAINMENT VESSEL PENETRATION ICV ICV - INSIDE CONTAINMENT VESSEL OCV - OUTSIDE CONTAINMENT VESSEL

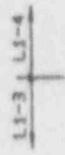
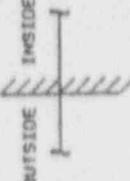
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:  
 1. THIS DRAWING PRODUCED FROM DRAWINGS D-302-001, REV. M & D-302-002, REV. B.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT  
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DATE: 1/1/71  
 DRAWN BY: J. H. [Signature]  
 CHECKED BY: [Signature]  
 SCALE: AS SHOWN  
 SYSTEM NO.: SS-305-001  
 DRAWING NUMBER: 001  
 SHEET NO.: 1

MISCELLANEOUS	ABBREVIATIONS	INSTRUMENTATION	ISI CLASS COLORS														
 LINE DESIGNATION  MATCH MARK  CONTINUATION ARROW  SPEC. CHANGE  SPEC. CHANGE  ISI CLASS 1, 2, & 3 BOUNDARY FLAG  NON-ISI BOUNDARY FLAG  ISI BOUNDARY CHANGE  EQUIP. COMPARTMENT RADIATION OR MISSILE SHIELD WALL OUTSIDE INSIDE	AB AUX. BLDG. CC COF. ZONE COMPLEX CRM CLEAR RADWASTE D DRAIN DG DIESEL GENERATOR DRW DIRTY RADWASTE FC FAIL CLOSED IB INTERMEDIATE BLDG. LC LOCKED CLOSED LO LOCKED OPEN NC NORMALLY CLOSED NO NORMALLY DE-ENERGIZED NO NORMALLY OPEN PEN PENETRATION RB REACTOR BLDG. RO RESTRICTING ORIFICE RPY REACTOR PRESS. VESSEL TC TEST CONN. V VENT VB VACUUM BREAKER	BASIC INSTRUMENT LOCALLY MOUNTED  CONTROL ROOM MOUNTED OR INDICATED  TRANSMITTER  TRANSMITTER LOCAL OR REMOTE PANEL MOUNTED  REMOTE OR LOCAL PANEL 	ISI CLASS 1  ISI CLASS 2  ISI CLASS 3 														
<b>IDENTIFICATION</b> <table border="1"> <thead> <tr> <th>1st LETTER</th> <th>2nd LETTER</th> </tr> </thead> <tbody> <tr> <td>A - ANALYSIS</td> <td>E - ELEMENT</td> </tr> <tr> <td>F - FLOW</td> <td>I - INDICATOR</td> </tr> <tr> <td>L - LEVEL</td> <td>P - TEST POINT</td> </tr> <tr> <td>P - PRESSURE</td> <td>S - SWITCH</td> </tr> <tr> <td></td> <td>T - TRANSMITTER</td> </tr> <tr> <td></td> <td>X - TEST POINT</td> </tr> </tbody> </table>		1st LETTER	2nd LETTER	A - ANALYSIS	E - ELEMENT	F - FLOW	I - INDICATOR	L - LEVEL	P - TEST POINT	P - PRESSURE	S - SWITCH		T - TRANSMITTER		X - TEST POINT	<b>NOTES:</b> 1. THIS DWG PRODUCED FROM DWGSS D-302-001, REV. M AND D-302-002, REV. B.	
1st LETTER	2nd LETTER																
A - ANALYSIS	E - ELEMENT																
F - FLOW	I - INDICATOR																
L - LEVEL	P - TEST POINT																
P - PRESSURE	S - SWITCH																
	T - TRANSMITTER																
	X - TEST POINT																

REVISION TO CURRENT LIST  
 PROGRAM # 114805/001  
 & INCHQUARTER ON 1809

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT UNIT 1

SEE DIMENSIONAL BOUNDARY

DATE: 11/14/76

SCALE: NONE

STATION: 002

REV: 2

DRW'G. NUMBER: SS-305-001

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

DRAWING NUMBER	SHEET	SYSTEM NUMBER	DESCRIPTION	DRAWING NUMBER	SHEET	SYSTEM NUMBER	DESCRIPTION
SS-305-001	1-5	-	LEGEND AND DRIVING LIST	SS-305-431	1-1	P87	POST ACCIDENT SAMPLING
SS-305-002	1-4	P47	CONTROL COMPLEX CHILLED WATER	SS-305-602	1-1	B33	REACTOR WATER RECIRCULATION
SS-305-003	1-1	P54	FIRE SERVICE WATER	SS-305-603	1-1	B33	REACTOR WATER RECIRCULATION
SS-305-004	1-1	D17	PLANT RADIATION MONITORING	SS-305-604	1-1	B33	REACTOR WATER RECIRCULATION
SS-305-005	1-1	P54	FIRE SERVICE CARBON DIOXIDE	SS-305-605	1-2	B21	NUCLEAR BOILER
SS-305-006	1-1	B13	REACTOR VESSEL CUTAWAY	SS-305-606	1-2	B21	NUCLEAR BOILER
SS-305-007	1-1	D17	PLANT RADIATION MONITORING	SS-305-608	1-1	B21	NUCLEAR BOILER
SS-305-008	1-1	P50	CONTAINMENT VESSEL CHILLED WATER	SS-305-613	1-1	P43	NUCLEAR CLOSED COOLING
SS-305-010	1-1	D17	LIQUID SYSTEM RADIATION MONITORING	SS-305-614	1-1	M14	CONTAINMENT VESSEL & DRYWELL PURGE
SS-305-011	1-1	B21, M11	MAIN STEAM	SS-305-621	1-2	P42	EMERGENCY CLOSED COOLING
SS-305-015	1-1	M15, M17	DRYWELL AND CONTAINMENT VACUUM RELIEF	SS-305-622	1-2	P42	EMERGENCY CLOSED COOLING
SS-305-062	1-1	N27	FEEDWATER	SS-305-623	1-1	P42	EMERGENCY CLOSED COOLING
SS-305-102	1-1	P11	CONDENSATE TRAP-AND AND STORAGE	SS-305-631	1-1	E51	REACTOR CORE ISOLATION COOLING
SS-305-121	1-1	N22	MAIN HEAT EXTRACTION & MISC. DRAINS	SS-305-632	1-1	E51	REACTOR CORE ISOLATION COOLING
SS-305-212	1-1	P41	SERVICE WATER	SS-305-641	1-2	E12	RESIDUAL HEAT REMOVAL
SS-305-214	1-1	P49	EMERGENCY SERVICE WATER SCREEN WASH	SS-305-642	1-4	E12	RESIDUAL HEAT REMOVAL
SS-305-242	1-1	P51	SERVICE AIR	SS-305-643	1-2	E12	RESIDUAL HEAT REMOVAL
SS-305-243	1-1	P52	INSTRUMENT AIR				
SS-305-244	1-1	P52	PARALLEL INSTRUMENT AIR				
SS-305-271	1-2	P57	SAFETY RELATED INSTRUMENT AIR				
SS-305-341	1-1	E32	MSIV LEAKAGE CONTROL				
SS-305-342	1-1	E32	MSIV LEAKAGE CONTROL				
SS-305-351	1-1	R44	DIV. 1&2 HPDS DIESEL GEN. STARTING AIR				
SS-305-352	1-4	R45	STANDBY AND HPDS DIESEL GEN. FUEL OIL				
SS-305-353	1 & 3	R47	STANDBY AND HPDS DIESEL GEN. LUBE OIL				
SS-305-354	1-2	R46	STANDBY AND HPDS DIESEL GEN. JACKET WATER				
SS-305-355	1-3	R48	STANDBY AND HPDS DIESEL GEN. EXH. INTAKE & CRANKCASE				
SS-305-356	1-1	R45	HPDS DIESEL GEN. FUEL OIL				
SS-305-358	1-1	R44	DIV. 3 HPDS DIESEL GENERATOR STARTING AIR				
SS-305-359	1-1	R47	HPDS DIESEL GENERATOR LUBE OIL				
SS-305-360	1-1	E22	HPDS DIESEL GENERATOR COOLING WATER				

THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT			
SEE CLASSIFICATION MEMORANDUM			
PIPELINE NUMBER			
DRAWING LIST BY DRAWING NUMBER			
DATE	CHECKED	APPROVED	SCALE
11/17/88	John		1/4" = 1'-0"
SYSTEM	NO.	DRAWING NUMBER	SH. NO. REV.
		SS-305-001	v03 2

DRAWING NUMBER	SHEET	SYSTEM NUMBER	DESCRIPTION
SS-305-651	1-1	G41	FUEL POOL COOLING AND CLEAN-UP
SS-305-654	1-1	G41	FUEL POOL COOLING AND CLEAN-UP
SS-305-655	1-1	G41	FUEL POOL COOLING AND CLEAN-UP
SS-305-661	1-1	E15	CONTAINMENT SPRAY
SS-305-671	1-1	G33	REACTOR WATER CLEAN-UP
SS-305-672	1-1	G33	REACTOR WATER CLEAN-UP
SS-305-686	1-1	G43	SUPPRESSION POOL MAKE-UP
SS-305-691	1-1	C41	STANDBY LIQUID CONTROL
SS-305-692	1-1	C41	STANDBY LIQUID CONTROL
SS-305-701	1-1	E22	HIGH PRESSURE CORE SPRAY
SS-305-705	1-1	E21	LOW PRESSURE CORE SPRAY
SS-305-713	1-1	P22	MIXED BED DEMIN. AND DISTRIBUTION
SS-305-737	1-1	G50	LIQUID RADWASTE DISPOSAL
SS-305-739	1-1	G61	LIQUID RADWASTE-EQUIPMENT DRAIN SUMPS
SS-305-740	1-1	G61	LIQUID RADWASTE FLOOR DRAINS
SS-305-761	1-1	P53	PENETRATION PRESSURIZATION
SS-305-791	1-2	P45	EMERGENCY SERVICE WATER
SS-305-792	1-4	P45	EMERGENCY SERVICE WATER
SS-305-811	1-1	E61	CONTAINMENT INTEGRATED LEAK RATE TEST
SS-305-831	1-1	M51	COMBUSTIBLE GAS CONTROL
SS-305-832	1-1	M51	HYDROGEN ANALYSIS
SS-305-861	1-1	P72	PLANET UNDERDRAIN
SS-305-871	1-1	C11	CONTROL ROD DRIVE HYDRAULICS
SS-305-872	1-1	C11	CONTROL ROD DRIVE HYDRAULICS
SS-305-881	1-1	Q23	CONTAINMENT ATMOSPHERE MONITORING
SS-305-950	1-1	P86	NITROGEN SUPPLY SYSTEM
SS-305-961	1-1	F31	LEAK DETECTION
SS-305-962	1-1	E31	LEAK DETECTION
SS-305-970	1-1	F42	INCLINED FUEL TRANSFER
SS-305-971	1-1	N27	FEEDWATER LEAKAGE CONTROL

THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY.

REVISIONS TO CURRENT LIST AND LISTING IS FOR THE PERIOD 01/01/74 TO 01/31/75	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT  UNIT 1			
	SEE CLASSIFICATION SCHEMATIC			
	Piping Diagram			
	DRAWING LIST BY DRAWING NUMBER			
	DATE 5/11/74	CHECKED [Signature]	ENGINEER APPROVAL [Signature]	DATE 5/11/74
SCALE NONE	DRAWING NUMBER SS-305-001		SH. NO 004	REV 2

SYSTEM NUMBER      DRAWING NUMBER  
 P52                    SS-305-243  
 P52                    SS-305-244  
 P53                    SS-305-761  
 P54                    SS-305-003  
 P54                    SS-305-095  
 P57                    SS-305-271  
 P72                    SS-305-861  
 P86                    SS-305-950  
 P87                    SS-305-431  
 R44                    SS-305-351  
 R44                    SS-305-358  
 R45                    SS-305-352  
 R45                    SS-305-356  
 R46                    SS-305-354  
 R47                    SS-305-353  
 R47                    SS-305-359  
 R48                    SS-305-355

SYSTEM NUMBER      DRAWING NUMBER  
 G33                    SS-305-671  
 G33                    SS-305-872  
 G41                    SS-305-851  
 G41                    SS-305-654  
 G41                    SS-305-655  
 G43                    SS-305-686  
 G50                    SS-305-737  
 G51                    SS-305-739  
 G51                    SS-305-740  
 M14                    SS-305-614  
 M16                    SS-305-016  
 M17                    SS-305-016  
 M51                    SS-305-831  
 M51                    SS-305-832  
 M11                    SS-305-011  
 M22                    SS-305-121  
 M27                    SS-305-082  
 M27                    SS-305-971  
 P11                    SS-305-102  
 P22                    SS-305-713  
 P41                    SS-305-212  
 P42                    SS-305-621  
 P42                    SS-305-622  
 P42                    SS-305-623  
 P43                    SS-305-613  
 P45                    SS-305-791  
 P45                    SS-305-792  
 P47                    SS-305-002  
 P48                    SS-305-214  
 P50                    SS-305-008  
 P51                    SS-305-242

SYSTEM NUMBER      DRAWING NUMBER  
 E12                    SS-305-006  
 E21                    SS-305-011  
 E21                    SS-305-605  
 E21                    SS-305-606  
 E21                    SS-305-608  
 E33                    SS-305-602  
 E33                    SS-305-603  
 E33                    SS-305-604  
 C11                    SS-305-871  
 C11                    SS-305-872  
 C41                    SS-305-691  
 C41                    SS-305-692  
 O17                    SS-305-004  
 O17                    SS-305-007  
 O17                    SS-305-010  
 O23                    SS-305-881  
 E12                    SS-305-641  
 E12                    SS-305-642  
 E12                    SS-305-643  
 E15                    SS-305-661  
 E21                    SS-305-705  
 E22                    SS-305-701  
 E22                    SS-305-360  
 E31                    SS-305-961  
 E31                    SS-305-962  
 E32                    SS-305-341  
 E32                    SS-305-342  
 E51                    SS-305-631  
 E51                    SS-305-632  
 E61                    SS-305-811  
 F42                    SS-305-970

SYSTEM NUMBER      DRAWING NUMBER  
 G33                    SS-305-671  
 G33                    SS-305-872  
 G41                    SS-305-851  
 G41                    SS-305-654  
 G41                    SS-305-655  
 G43                    SS-305-686  
 G50                    SS-305-737  
 G51                    SS-305-739  
 G51                    SS-305-740  
 M14                    SS-305-614  
 M16                    SS-305-016  
 M17                    SS-305-016  
 M51                    SS-305-831  
 M51                    SS-305-832  
 M11                    SS-305-011  
 M22                    SS-305-121  
 M27                    SS-305-082  
 M27                    SS-305-971  
 P11                    SS-305-102  
 P22                    SS-305-713  
 P41                    SS-305-212  
 P42                    SS-305-621  
 P42                    SS-305-622  
 P42                    SS-305-623  
 P43                    SS-305-613  
 P45                    SS-305-791  
 P45                    SS-305-792  
 P47                    SS-305-002  
 P48                    SS-305-214  
 P50                    SS-305-008  
 P51                    SS-305-242

SYSTEM NUMBER      DRAWING NUMBER  
 E12                    SS-305-006  
 E21                    SS-305-011  
 E21                    SS-305-605  
 E21                    SS-305-606  
 E21                    SS-305-608  
 E33                    SS-305-602  
 E33                    SS-305-603  
 E33                    SS-305-604  
 C11                    SS-305-871  
 C11                    SS-305-872  
 C41                    SS-305-691  
 C41                    SS-305-692  
 O17                    SS-305-004  
 O17                    SS-305-007  
 O17                    SS-305-010  
 O23                    SS-305-881  
 E12                    SS-305-641  
 E12                    SS-305-642  
 E12                    SS-305-643  
 E15                    SS-305-661  
 E21                    SS-305-705  
 E22                    SS-305-701  
 E22                    SS-305-360  
 E31                    SS-305-961  
 E31                    SS-305-962  
 E32                    SS-305-341  
 E32                    SS-305-342  
 E51                    SS-305-631  
 E51                    SS-305-632  
 E61                    SS-305-811  
 F42                    SS-305-970

REVISION TO CURRENT LIST  
 PROGRAM STANDARD/QUAL  
 & INCORPORATED ON 1983  
 AND ON 1988

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT      UNIT 1

SEE CLASSIFICATION NUMBER

PIPING SCHEDULE

DRAWING LIST BY SYSTEM NUMBER

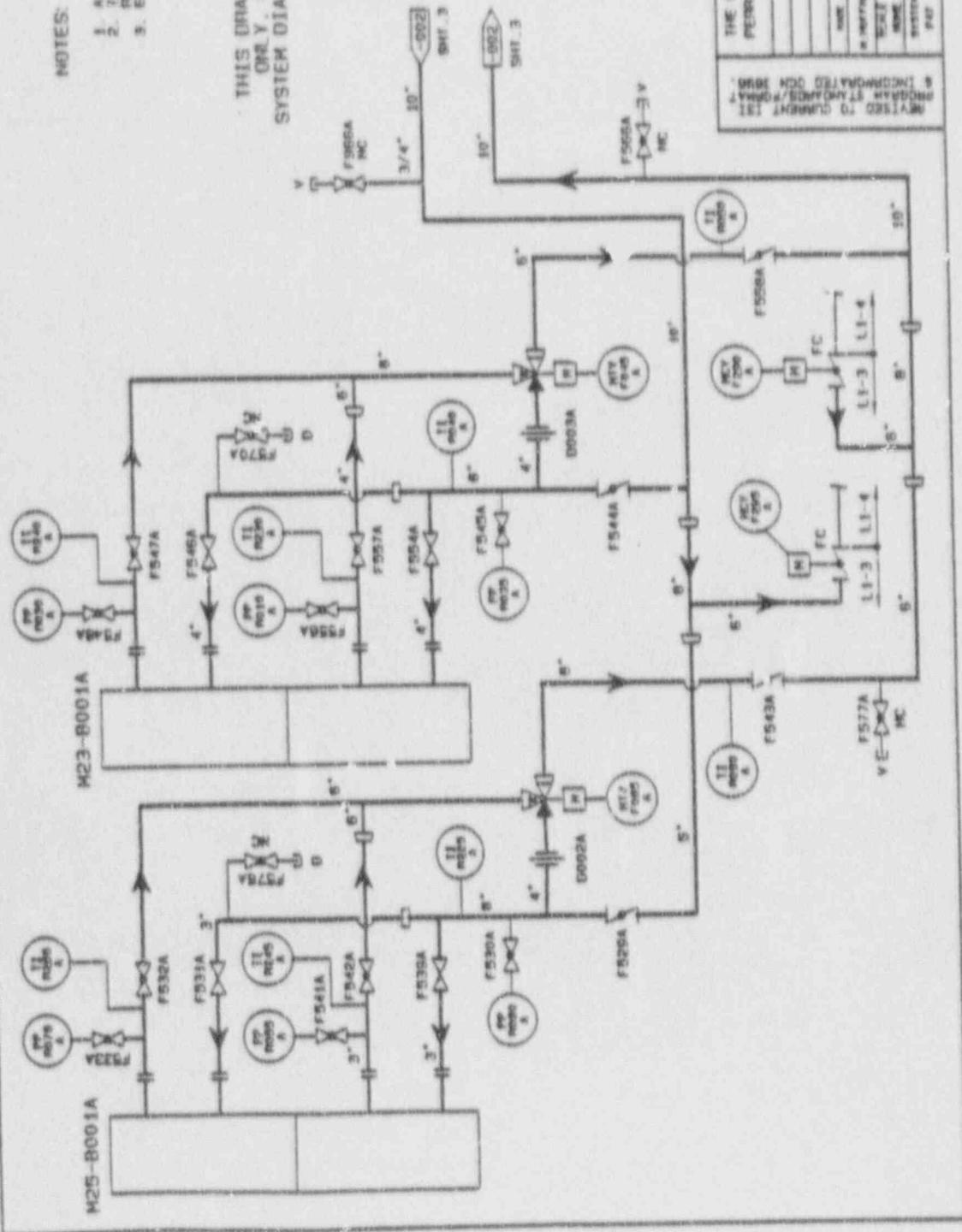
DATE	ISSUED	BY	REV.
10/27/83		CH	1
10/27/83		CH	1

DRAWING NUMBER      SS-305-001  
 SH. NO.      005  
 REV.      1

NOTES:

1. ALL DIMS TO BE SPFC. L1-3 UNLESS NOTED.
2. THIS DWG. PRODUCED FROM DWG. D-913-001. REV. AA AND DWG. D-913-002. REV. M.
3. ENTIRE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-913 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY SHEET 1  
 PERRY NUCLEAR POWER PLANT

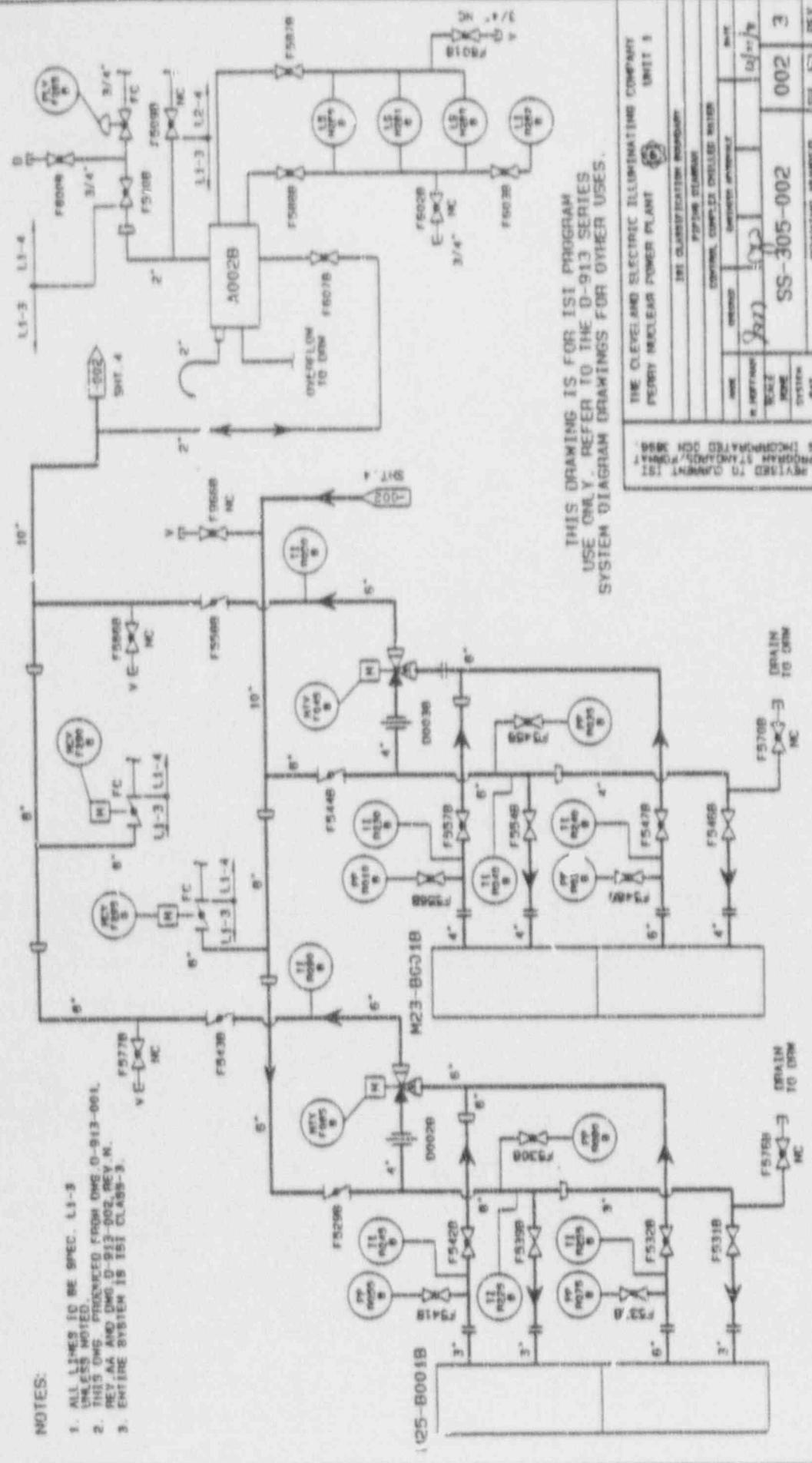
THE CLASSIFICATION SYMBOLS  
 PIPING SYMBOLS  
 CONTROL SYMBOLS  
 INSTRUMENT SYMBOLS

DATE: 12/27/78  
 DRAWING NUMBER: SS-305-002  
 SHEET NO: 001  
 REV: 3

INTENTED TO CLARIFY THE PROGRAM SYMBOLS/NOTES & INCORPORATED ON 10/8/88

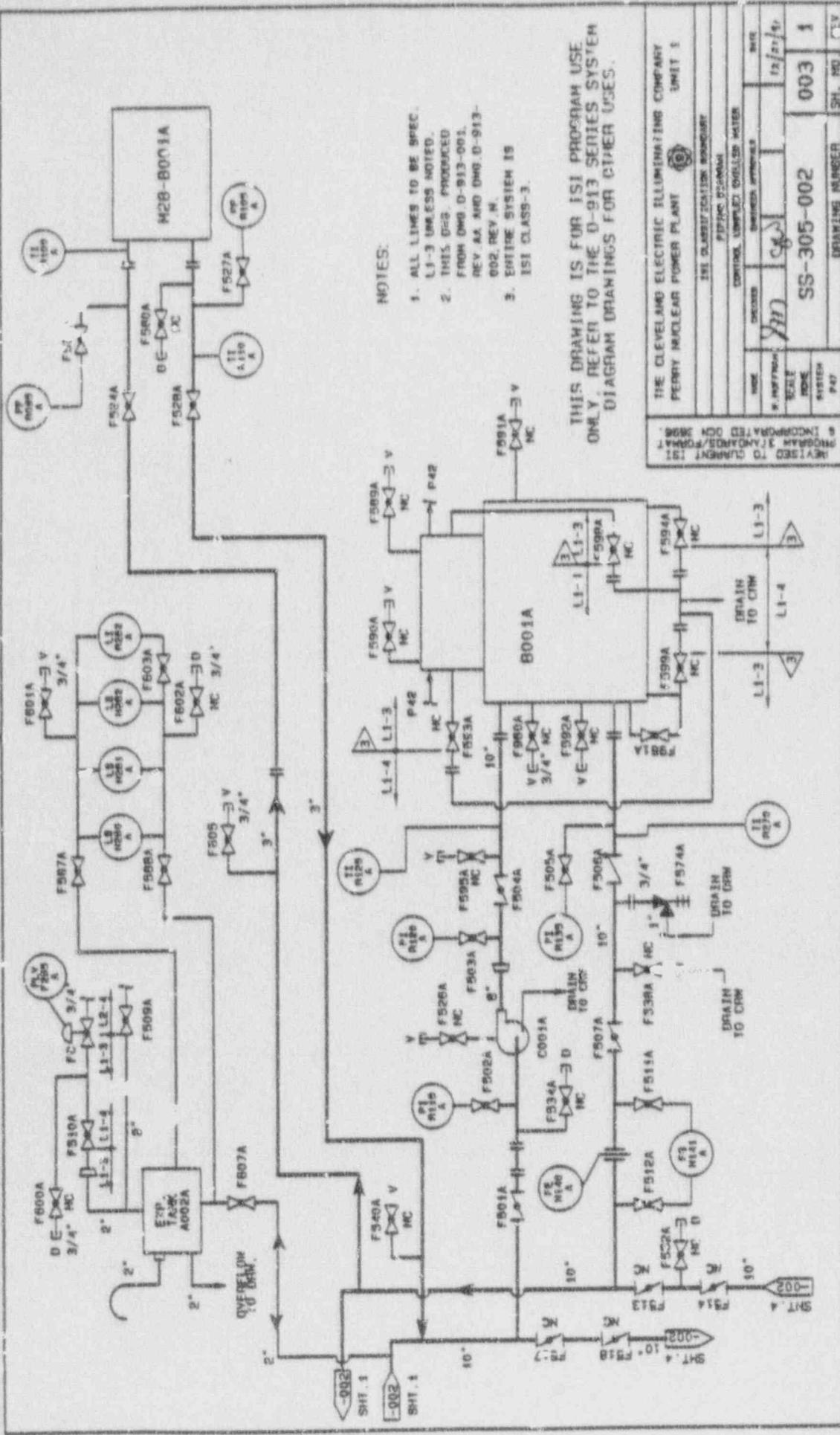
NOTES:

1. ALL LINES TO BE SPEC. LI-3 UNLESS NOTED.
2. THIS DWG. PRODUCED FROM DWG. 0-913-001, REV. AA AND DWG. 0-913-002, REV. N.
3. ENTIRE SYSTEM IS ISI CLASS-3.



THIS DRAWING IS FOR ISI PROGRAM  
 USE ONLY. REFER TO THE D-913 SERIES  
 SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1	
PERRY NUCLEAR POWER PLANT	
ISI CLASSIFICATION BOUNDARY	
SYSTEM BOUNDARY	
CONTROL, COMPLETE DRAINED WATER	
DATE	DATE
DESIGNED	DESIGNED APPROVAL
SCALE	SCALE
NO. OF SHEETS	NO. OF SHEETS
SYSTEM	SYSTEM
PAT.	PAT.
SS-305-002	002 3
DRAWING NUMBER	SPL. NO. REV.

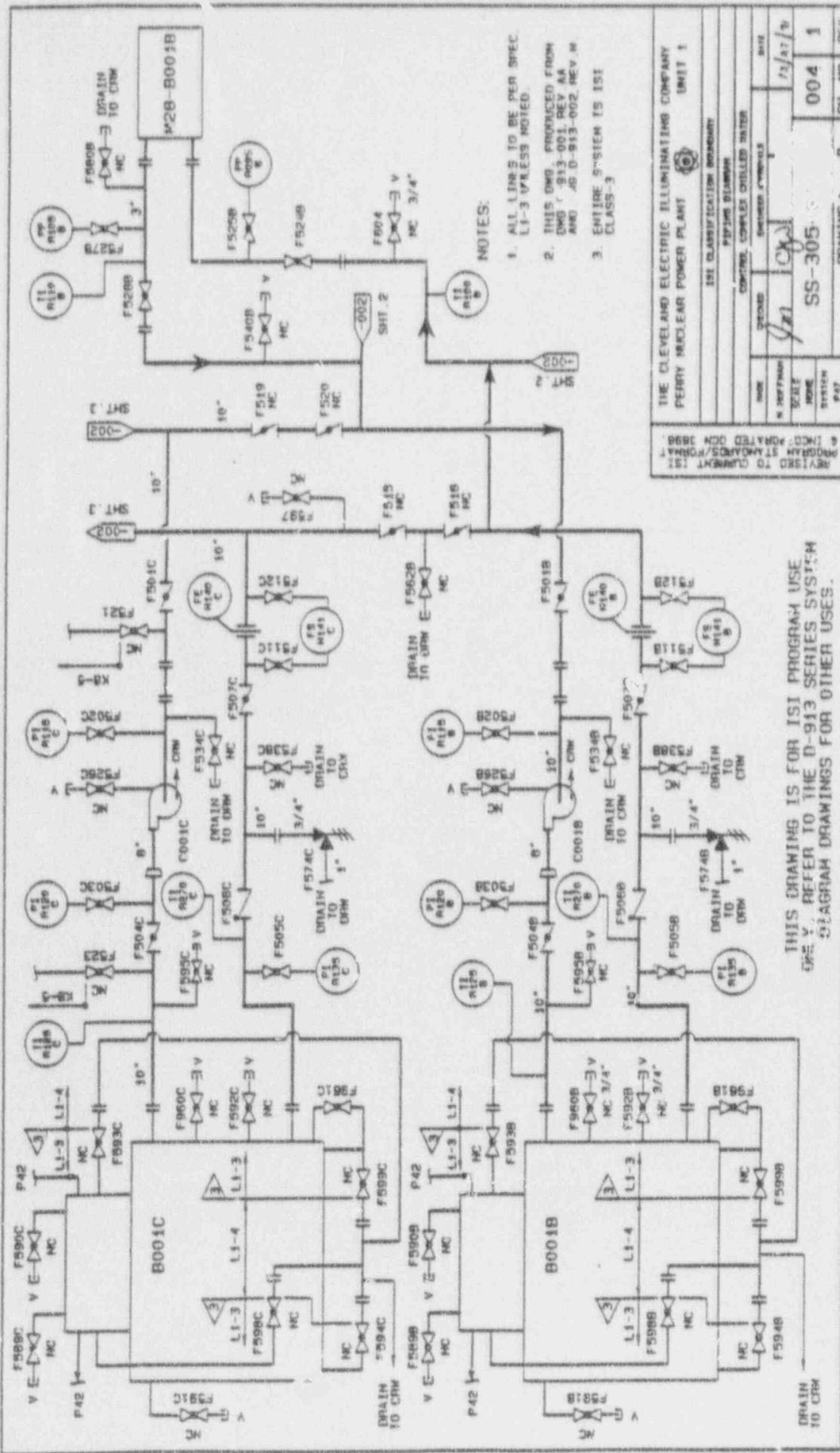


NOTES:

1. ALL LINES TO BE SPEC. LI-3 UNLESS NOTED.
2. THIS DWG. PRODUCED FROM DWG D-913-001. REV. AA AND DWG. D-913-002, REV. A.
3. ENTIRE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-913 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVIEWED TO GUARANTY PROGRAM STANDARDS/FORM 1		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1	
DESIGNED BY		PERRY NUCLEAR POWER PLANT	
CHECKED BY		CONTROL UNIFORM COOLING WATER	
SCALE		AS SHOWN	
DATE		12/21/47	
DRAWING NUMBER		SS-305-002	
SHEET NO.		003	
TOTAL SHEETS		1	
PROJECT NO.		SH. NO.	

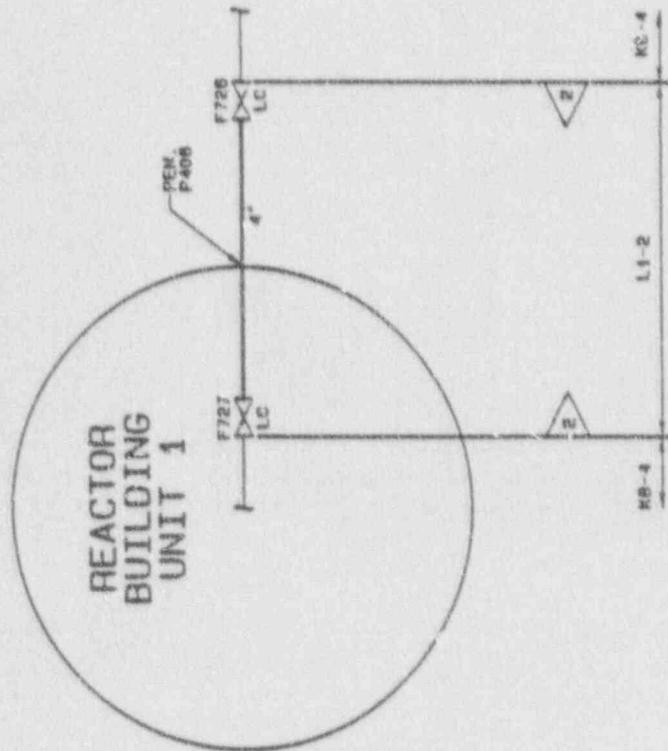


- NOTES:
1. ALL LINES TO BE PER SPEC LI-3 UNLESS NOTED.
  2. THIS DWG. PRODUCED FROM DWG. 913-001, REV. AA AND AD. D-813-002, REV. AA.
  3. ENTIRE SYSTEM IS ISI CLASS-3

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
PERRY NUCLEAR POWER PLANT

REVISED TO CUMMINS	DATE	BY	CHKD	APP'D
REPLACED BY	12/12/78			
REPLACED BY	004			
REPLACED BY	1			
REPLACED BY				
REPLACED BY				
REPLACED BY				

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-913 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

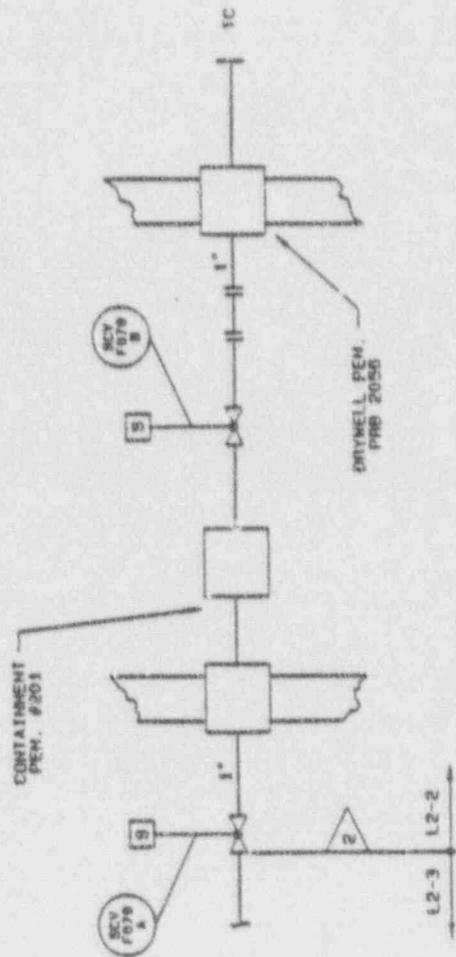
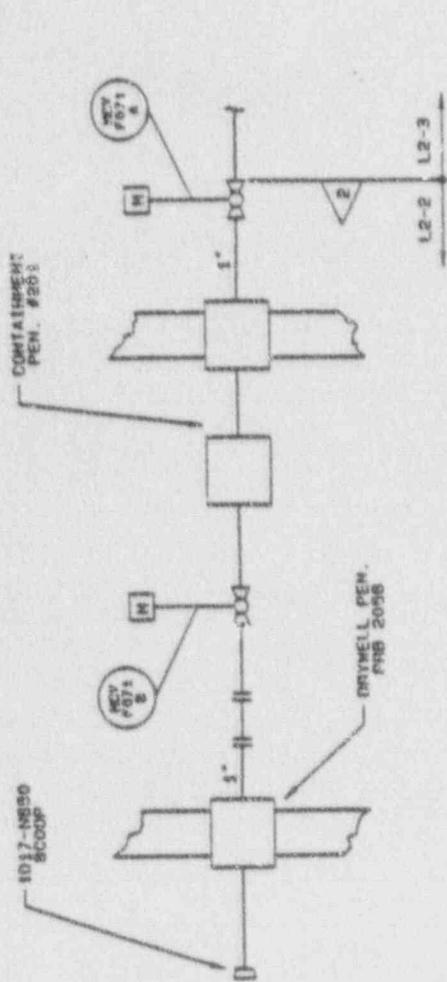


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-914-003, REV. V.
2. THIS PORTION OF THE SYSTEM IS IS-CLASS-2 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-914 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCN 8898.		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
DATE	DESIGNED	SEE CLASSIFICATION BOUNDARY	UNIT 1
12/21/74	BY <i>cyd</i>	FITTING DIMENSION	
	IN OFFICE	FINE SERVICE WATER	
	FIELD	ENGINEER APPROVALS	
	WORK		
	SYSTEM		
PS4	SS-305-003	DRAWING NUMBER	SH. NO. REV
	001		3

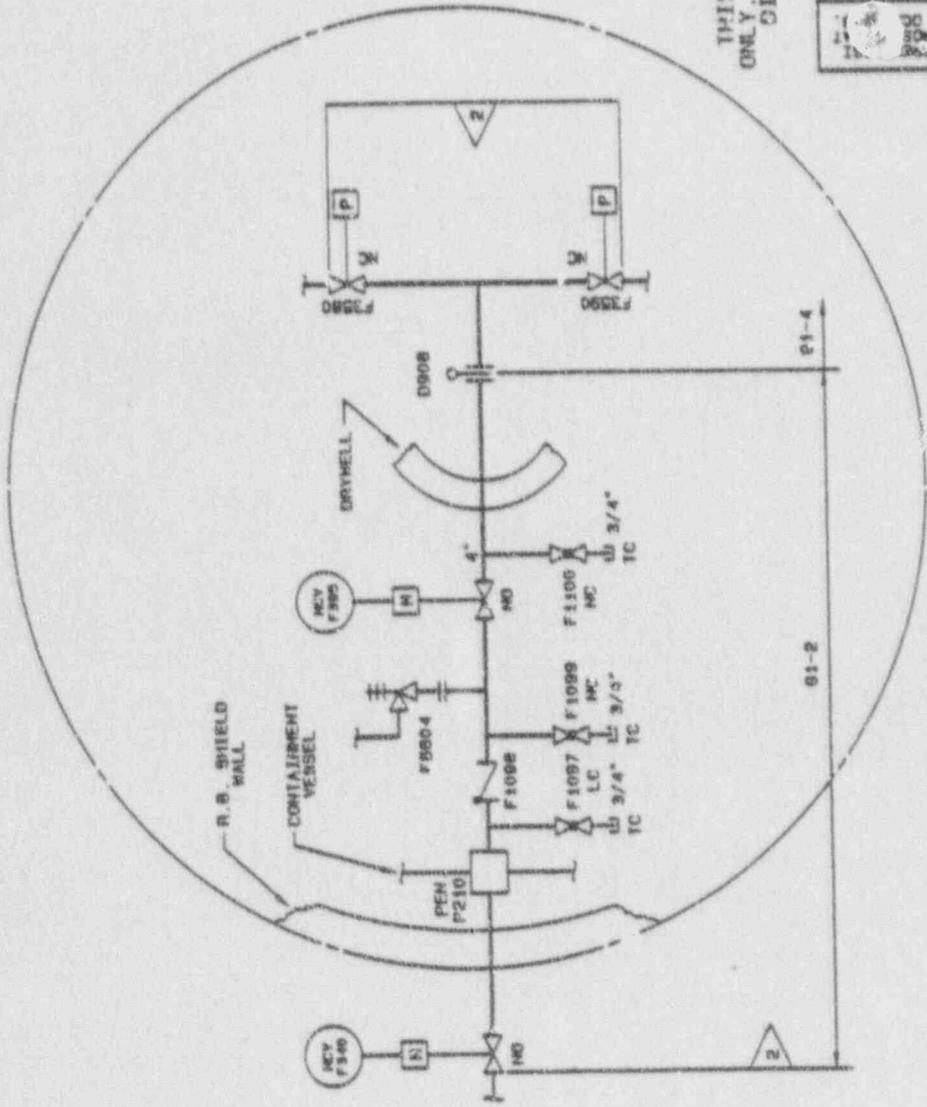


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-806-004, REV. 6.
2. THIS PORTION OF THE SYSTEM INCLUDES ISI CLASS-2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-806 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/NORMS INCORPORATED JAN 1996		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1	
PERRY NUCLEAR POWER PLANT		PERRY NUCLEAR POWER PLANT	
ISI CLASSIFICATION BOUNDARY		ISI CLASSIFICATION BOUNDARY	
PLANT RADIATION MONITORING		PLANT RADIATION MONITORING	
DATE	11/21/91	ISSUE NO.	001
SCALE		DRAWING NUMBER	SS-305-004
SYSTEM		SH. NO.	3
BY		REV	

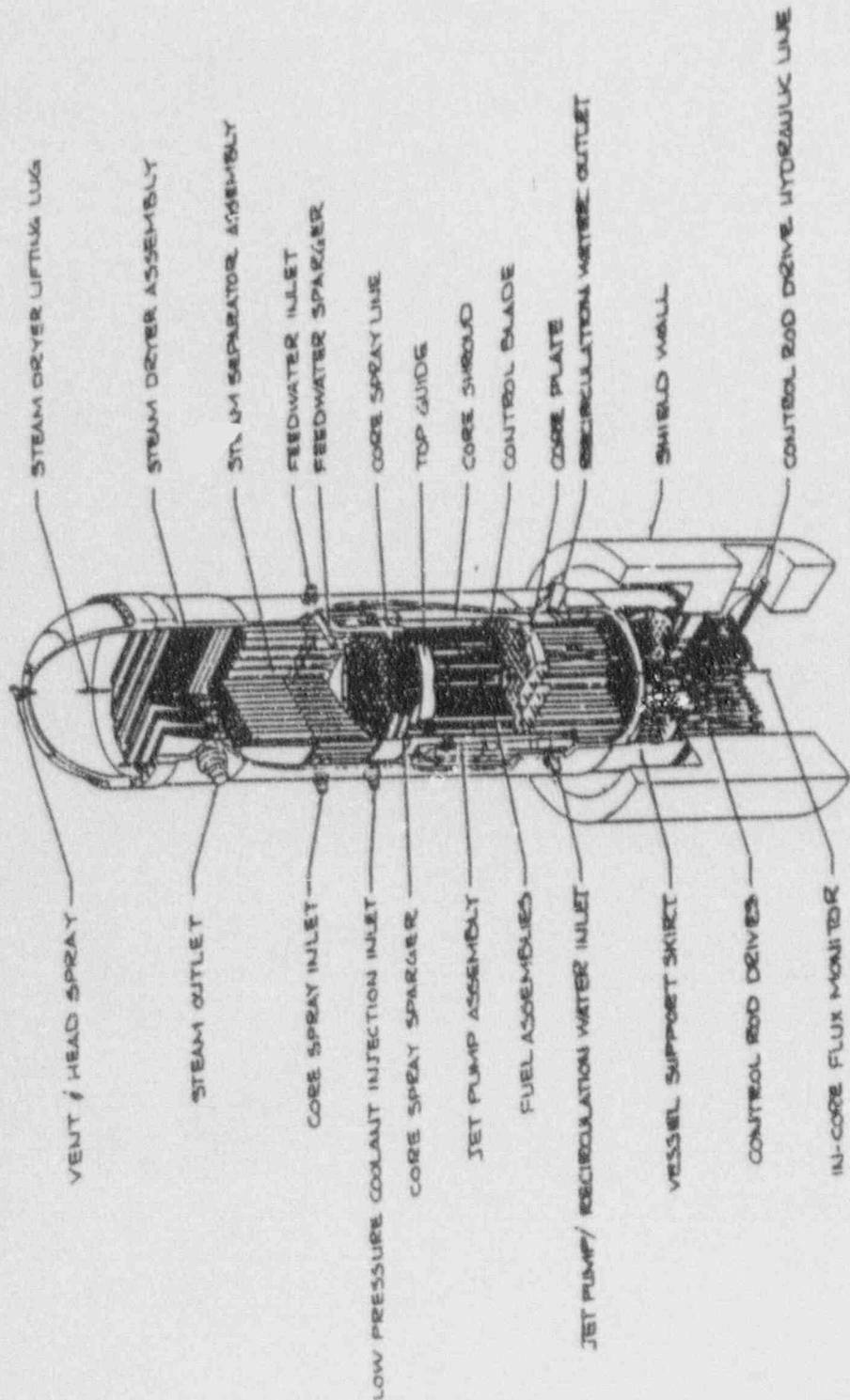


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-914-005, REV. V.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-914 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO COMPLY WITH PROGRAM STANDARDS DC		DATE	BY
1		12/01/91	
2			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION BOARD			
FIFTH BOARD			
DATE	DESIGNED	BY	DATE
			12/01/91
NO. OF SHEETS	DRAWING NUMBER		REV.
1	SS-305-005		001 3
STATION	PSA		SH. NO.
			REV.



VENT / HEAD SPRAY

STEAM DRYER LIFTING LUG

STEAM DRYER ASSEMBLY

STEAM OUTLET

ST. LM SEPARATOR ASSEMBLY

FEEDWATER INLET

CORE SPRAY INLET

FEEDWATER SPARGER

LOW PRESSURE COOLANT INJECTION INLET

CORE SPRAY LINE

CORE SPRAY SPARGER

TOP GUIDES

JET PUMP ASSEMBLY

CORE SHROUD

FUEL ASSEMBLIES

CONTROL BLADE

JET PUMP/ RECIRCULATION WATER INLET

CORE PLATE

RECIRCULATION WATER OUTLET

VESSEL SUPPORT SKIRT

SHIELD WALL

CONTROL ROD DRIVES

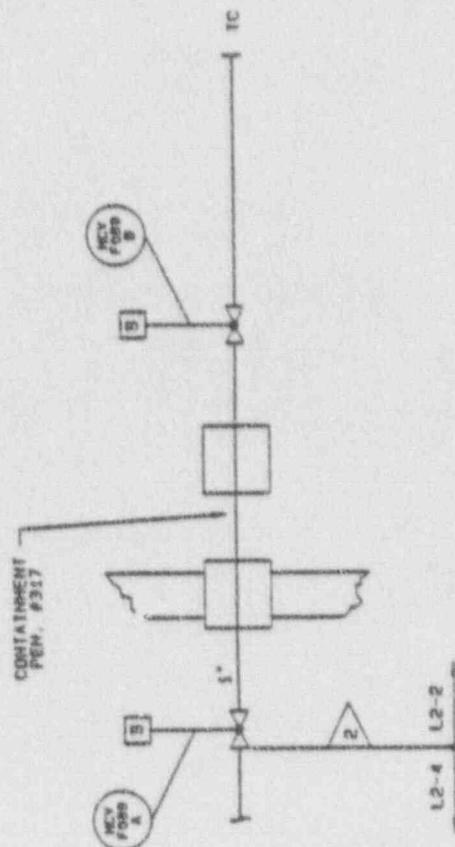
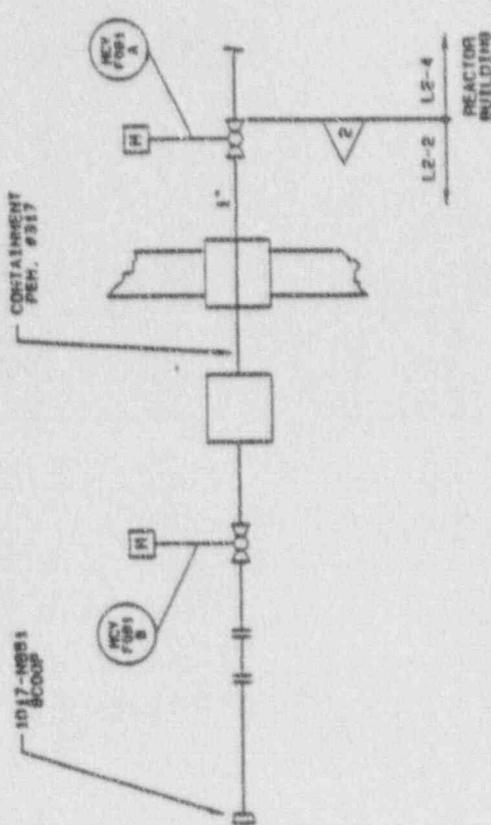
CONTROL ROD DRIVE HYDRAULIC LINE

IN-CORE FLUX MONITOR

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3609	DATE	BY	APP
	11/71	H	A

THIS DRAWING IS FOR ISI PROGRAM USE ONLY.

THE CLEVELAND ELECTRIC RAILROAD CO. COMPANY	PROJECT	NO.	DATE
151 CLASSIFICATION BOARD	151	1	11-71
REACTOR VESSEL CUTAWAY DRAWING			
REACTOR VESSEL CUTAWAY DRAWING			
DATE	11-71	BY	H
APP	A	REV	1
NO.	55-205-004	REV	1

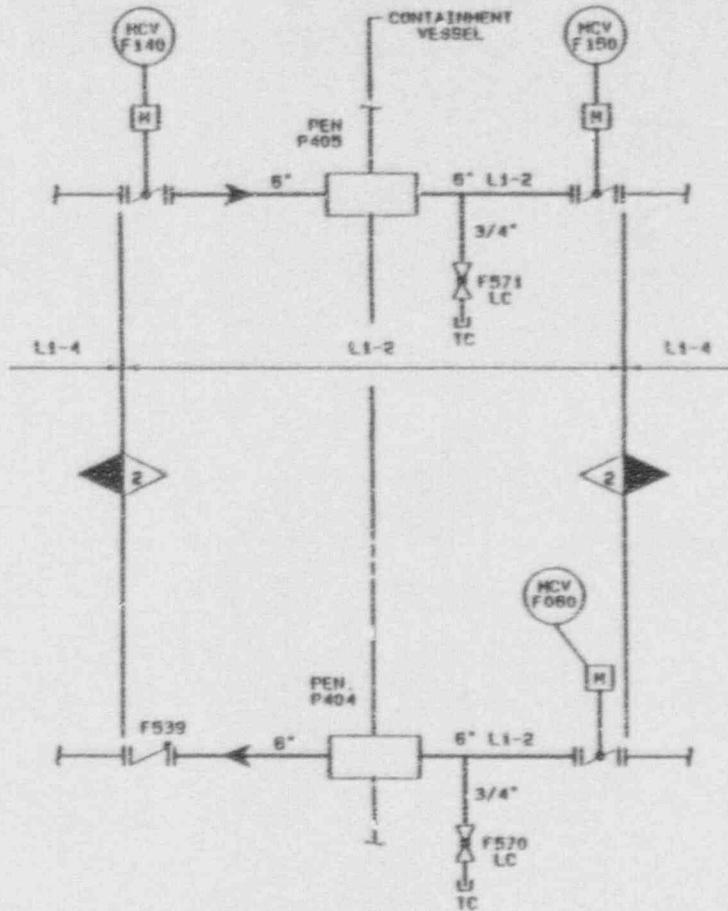


NOTES:

1. THIS DWG. PRODUCED FROM Dwg. D-806-007, REV. 9.
2. THIS PORTION OF THE SYSTEM IS BSI CLASS-2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-806 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT PROGRAM STANDARDS/FORMAT INCORPORATED DEC 1998		DATE	
DATE	DRAWN	DATE	DATE
12/21/94	JPD	12/21/94	
NO. DESIGNED	ISSUE NO.	DWG. NO.	REV.
		SS-305-007	001 3
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION BOUNDARY			
PIPELINE DESIGN			
PLANT RADIATION MONITORING			
DRAWING NUMBER			
SSI. NO. REV.			

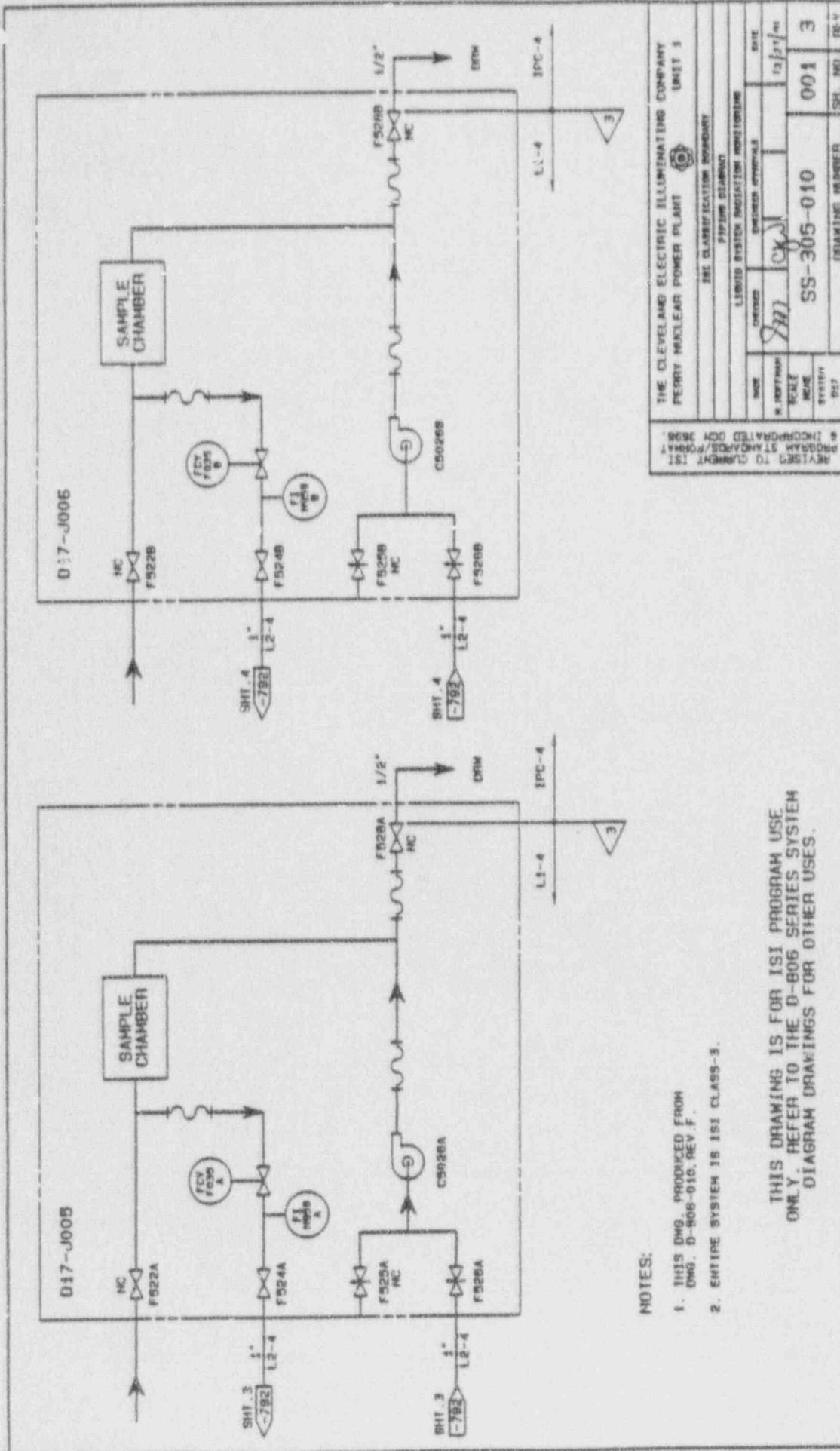


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-913-008, REV. P.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-913 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISION TO CURRENT ISI PROGRAM IS INDICATED BY A CIRCLE WITH A NUMBER IN THE MARGIN TO THE LEFT OF THE DATE.	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1			
	ISI CLASSIFICATION BOUNDARY			
	PIPING DIAGRAM			
	CONTAINMENT VESSEL CHILLED WATER			
	NO.	CHECKED	ENGINEER APPROVALS	DATE
1	<i>Jm</i>	<i>ogw</i>	12/21/76	
SCALE	SS-305-008		001	3
SYSTEM	DRAWING NUMBER		SH. NO	REV
PSD				



NOTES:

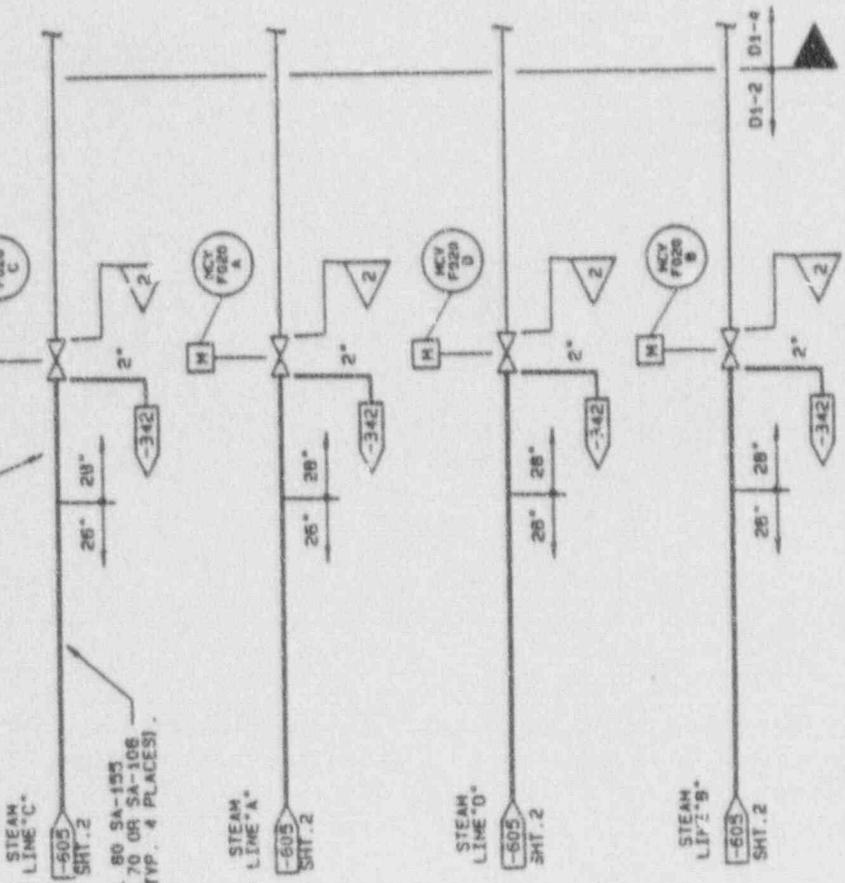
1. THIS DWG. PRODUCED FROM DWG. D-806-010, REV. F.
2. ENTIRE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-806 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISION TO DRAWING IS IN APPROVED COPY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 3	
PERRY NUCLEAR POWER PLANT			
THE CLASSIFICATION SYMBOL			
PIPING SYMBOL			
LIQUID SYSTEM INDICATION MODIFIERS			
NO. CHECKED	DESIGNED APPROVALS	DATE	
BY APPROVED		12/17/66	
SCALE			
STATUS			
937			
DRAWING NUMBER		SH. NO.	REV.
SS-305-010		001	3

28" SCH. 140 SA-155  
GR. RCF 70 OR SA-106  
GR. C (TYP. 4 PLACES)



26" SCH. 80 SA-155  
GR. RCF 70 OR SA-106  
GR. C (TYP. 4 PLACES)

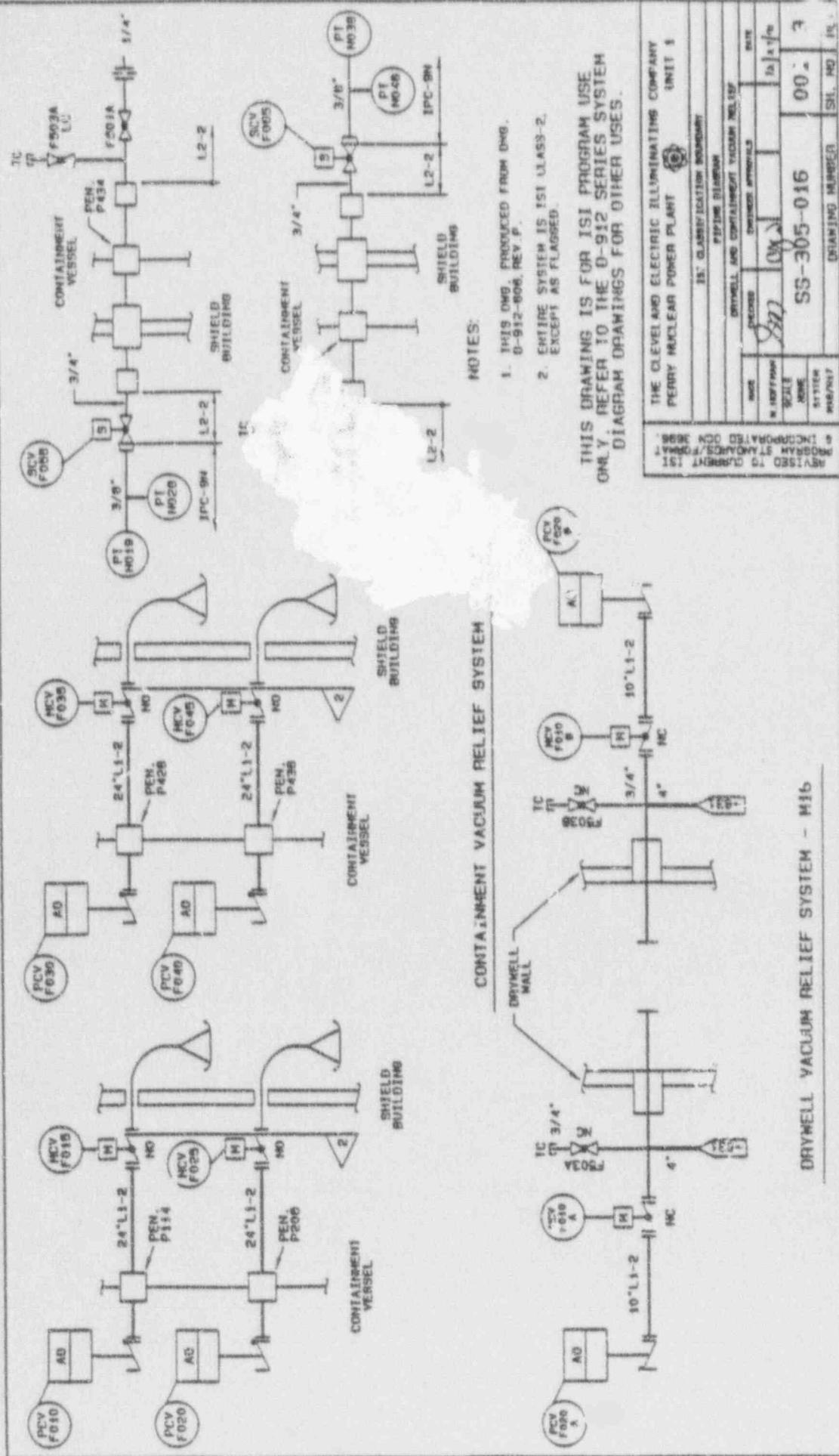
NOTES:

1. THIS DWG. PRODUCED FROM DWG. 0-302-011, REV. V.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISIO TO CURRENT ISI PROGRAM STANDARDS/FORMAT INCORPORATED DCH 8098

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT			
SEE CLASSIFICATION IN BACKGROUND			
FOR THE STEAM SYSTEM			
DATE	DESIGNED BY	DESIGNED BY	DATE
	brn	cy	1/2/53
SCALE			
NOTE			
SYSTEM			
REV			
DRAWING NUMBER		SH. NO.	REV.
SS-305-011		001	2



NOTES:

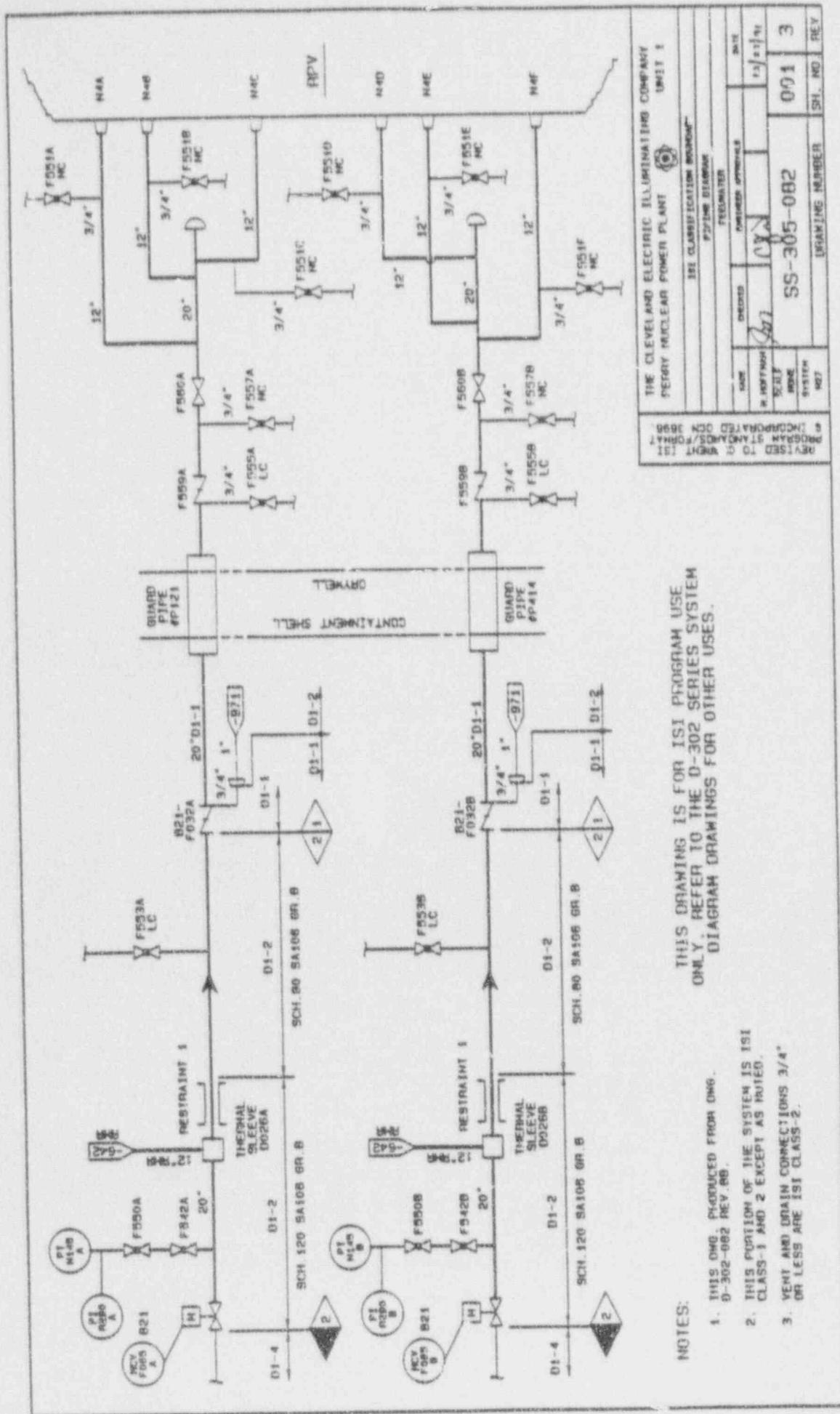
1. THIS DWG. PRODUCED FROM DWG. 0-912-806, REV. P.
2. ENTIRE SYSTEM IS ISI CLASS-2, EXCEPT AS FLAGGED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY REFER TO THE 0-912 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

15" CLASSIFICATION BOUNDARY	
PIPING DILUENT	
DRYWELL AND CONTAINMENT VACUUM RELIEF	
DATE	10/1/78
SCALE	1/2" = 1'-0"
SYSTEM	00
DRAWING NUMBER	SS-305-016
SHEET NO.	3
UNIT	1
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR POWER PLANT	
UNIT 1	

CONTAINMENT VACUUM RELIEF SYSTEM

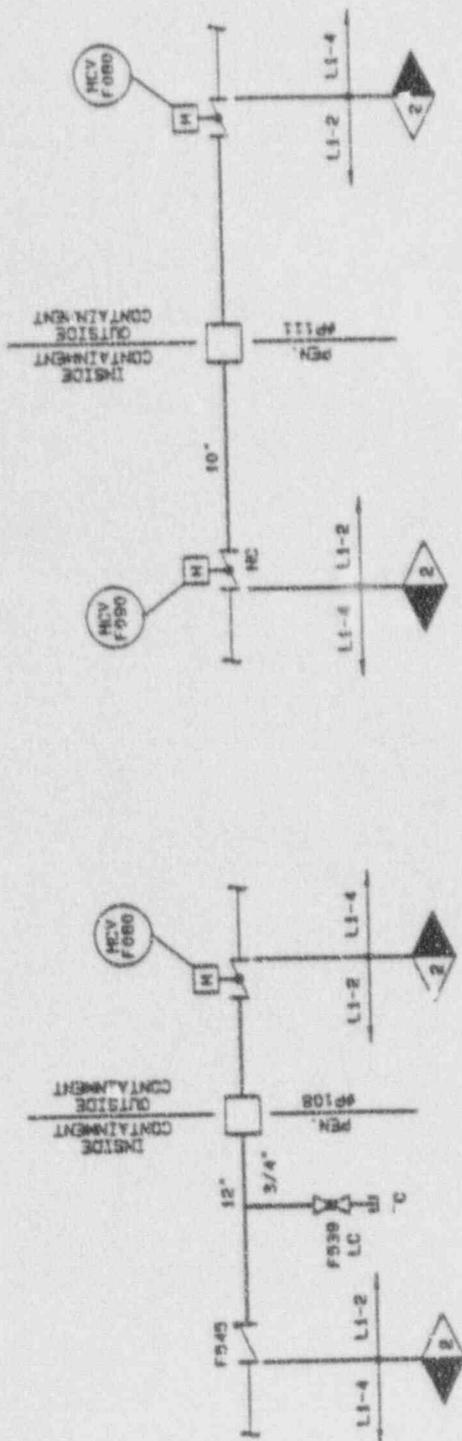
DRYWELL VACUUM RELIEF SYSTEM - M16



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-302-082 REV. 00.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-1 AND 2 EXCEPT AS NOTED.
3. VENT AND DRAIN CONNECTIONS 3/4" OR LESS ARE ISI CLASS-2.

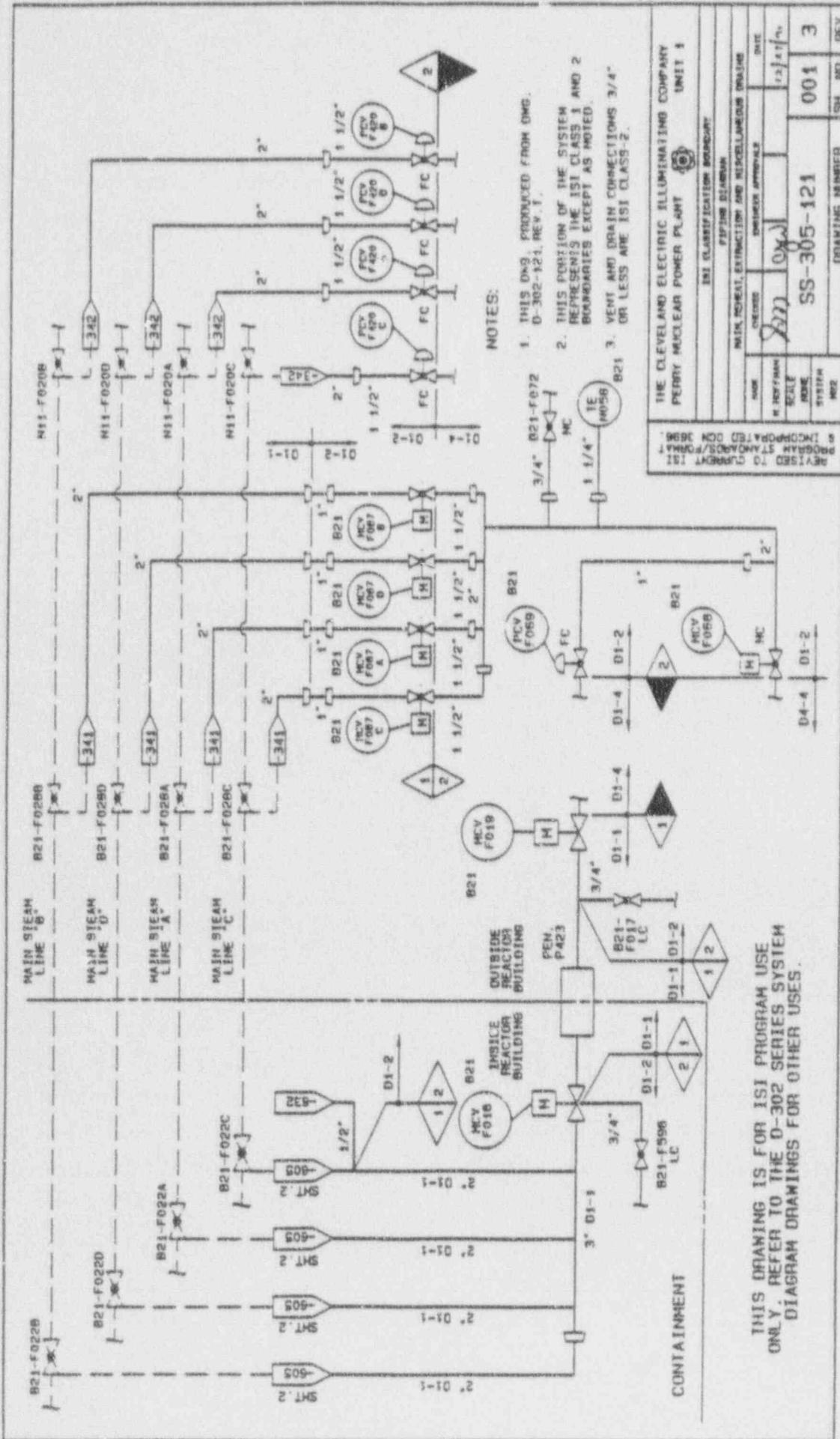


NOTES:

1. THIS DWG. PRODUCED FROM D-362-102, REV. 7.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISOR		DATE	
PROGRAM STAMPS/FORMAT		12/27/79	
REVISIONS		001 3	
DRAWING NUMBER		SS-305-102	
SHEET NUMBER		SHEET 1	
SHEET TOTAL		SHEET 1	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT UNIT 1			
ISI CLASSIFICATION BOUNDARY			
PUMP DIAGRAM			
CONCRETE TANKS AND STORAGE			
DESIGNED BY			
CHECKED BY			
DATE			

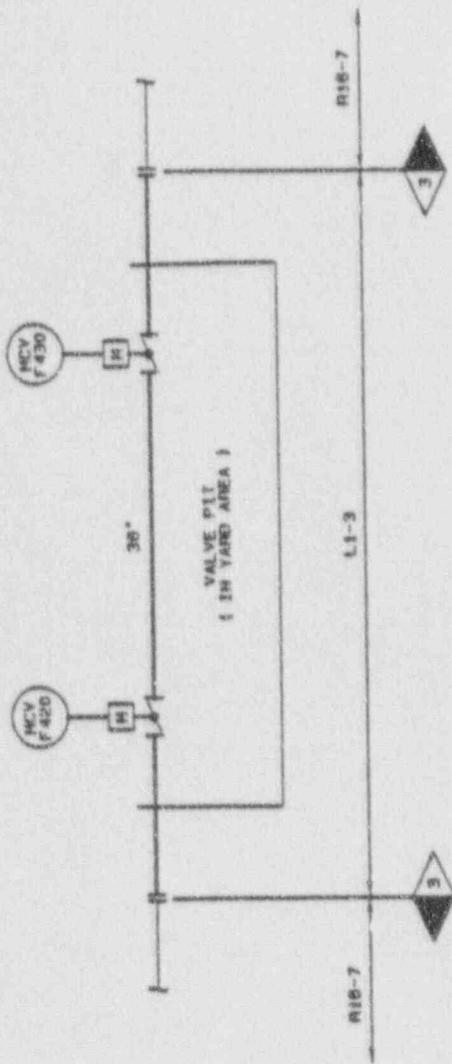


NOTES:

1. THIS DWS PRODUCED FROM DWG. D-302-121, REV. 1.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1 AND 2 BOUNDARIES EXCEPT AS NOTED.
3. VENT AND DRAIN CONNECTIONS 3/4" OR LESS ARE ISI CLASS-2.

REVISED TO CORRECT PROGRAM STAYDOWN/PROGRAM COMPARTMENTS FOR 1991		DATE	
NAME	DESIGNED BY	DATE	
BY	APPROVED BY	DATE	
SCALE		DATE	
NO.		DATE	
SYSTEM		DATE	
NO.		DATE	
DRAWING NUMBER		SH. NO.	REV.
SS-305-121		001	3

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

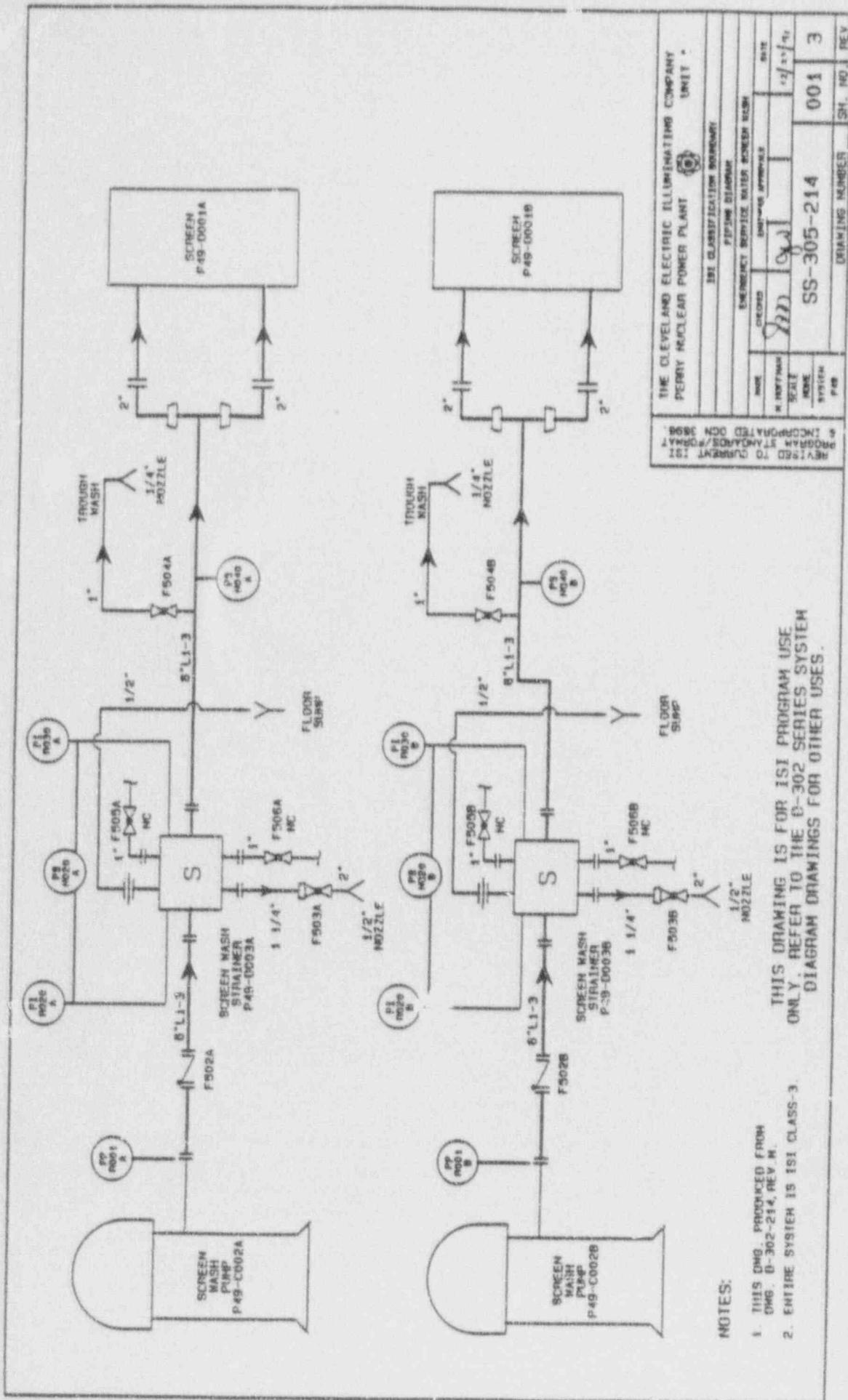


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-302-212, REV. 2.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-3 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCM 8888		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
NO. OF SHEETS	DATE	ISSUE NO.	REV.
1	12/23/71	001	3
DRAWING NUMBER		SHEET NO.	
SS-305-212		001	
PROJECT		SHEET NO.	
SEE CLASSIFICATION REPORT		001	
Piping Diagram		001	
Service Water		001	
DESIGNED APPROVALS		001	
CHECKED		001	
DATE		001	
SCALE		001	
SYSTEM		001	
PAGE		001	



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT •  
PERRY NUCLEAR POWER PLANT

ISI CLASSIFICATION BOARD  
PIPING DIAGRAM

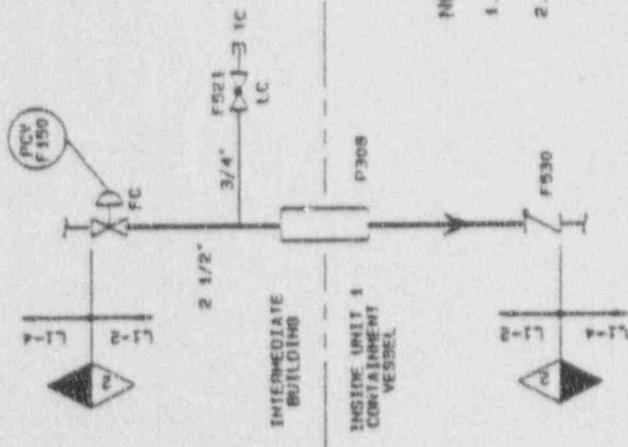
EMERGENCY SERVICE WATER WASH SYSTEM

DATE	12/21/71
BY	YJ
NO. OF SHEETS	3
TOTAL SHEETS	3
PROJECT NO.	SS-305-214
DRIVING NUMBER	001
SH. NO.	3
REV.	

REVISED TO CURRENT LIST PROGRAM STANDARDS/ORDN & INCORPORATED ON 0898

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

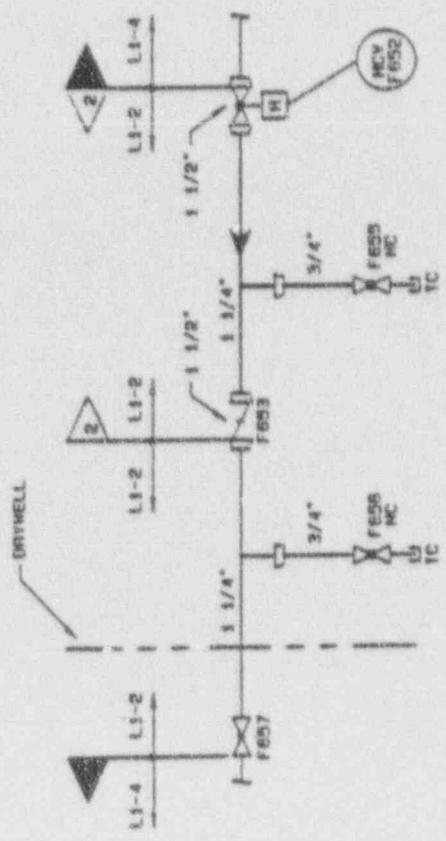
- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-214, REV. M.
  2. ENTIRE SYSTEM IS ISI CLASS-3.



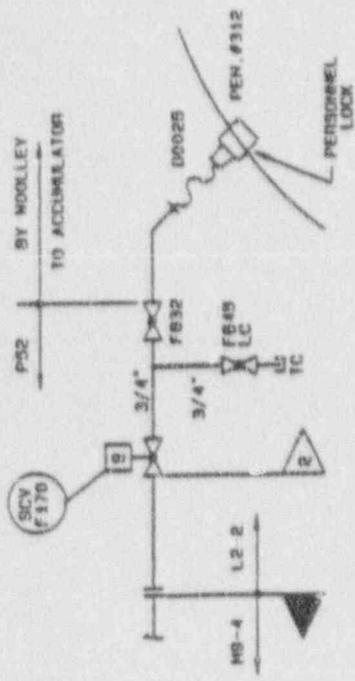
NOTES:

1. THIS Dwg. PRODUCED FROM DMD. D-302-242, REV. M.
2. THIS POSITION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



REVISED TO CURRENT PROGRAM STANDARDS INCORPORATED OCTOBER 1988		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
DATE	DESIGNER	CHECKER	APPROVALS
11/27/83	dy		
SCALE	NO. OF SHEETS	DRAWING NUMBER	
		SS-305-242	
SHEET NO.	SHEET NO.		REV.
001	001		3

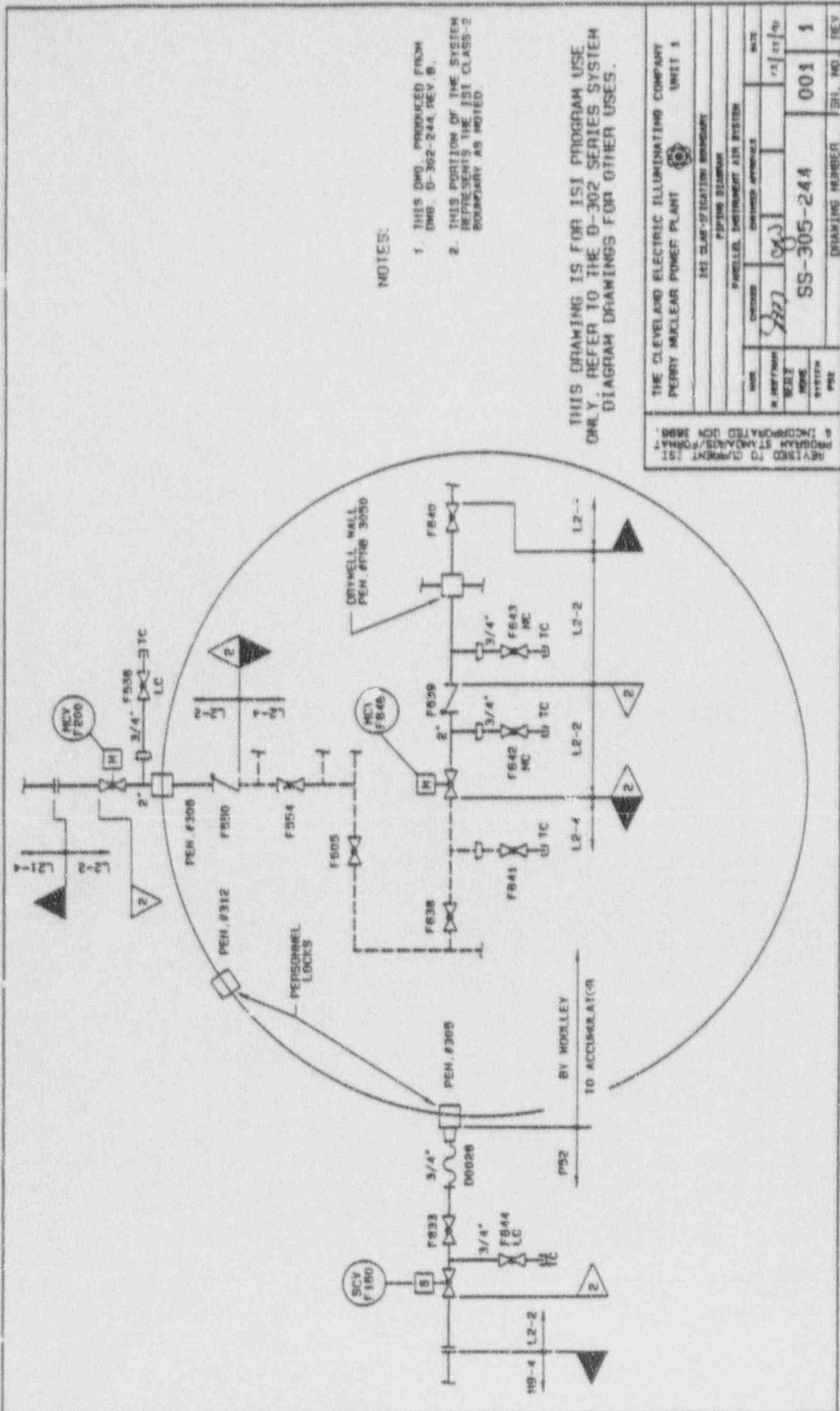


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-302-243, REV. U.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/CRITERIA & INCORPORATED SCHEMATIC		REVISED TO CURRENT ISI PROGRAM STANDARDS/CRITERIA & INCORPORATED SCHEMATIC	
DATE	BY	DATE	BY
10/11/70	SP	10/11/70	SP
ISSUE	ISSUE	ISSUE	ISSUE
001	001	001	001
SYSTEM	SYSTEM	SYSTEM	SYSTEM
ISI CLASSIFICATION BOUNDARY	ISI CLASSIFICATION BOUNDARY	ISI CLASSIFICATION BOUNDARY	ISI CLASSIFICATION BOUNDARY
PIPELINE DIAGRAM	PIPELINE DIAGRAM	PIPELINE DIAGRAM	PIPELINE DIAGRAM
INSTRUMENT AIR SYSTEM	INSTRUMENT AIR SYSTEM	INSTRUMENT AIR SYSTEM	INSTRUMENT AIR SYSTEM
UNIT 3	UNIT 3	UNIT 3	UNIT 3
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY
PERRY NUCLEAR POWER PLANT	PERRY NUCLEAR POWER PLANT	PERRY NUCLEAR POWER PLANT	PERRY NUCLEAR POWER PLANT
SS-305-243	SS-305-243	SS-305-243	SS-305-243
DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER
SH. NO.	SH. NO.	SH. NO.	SH. NO.
REV.	REV.	REV.	REV.



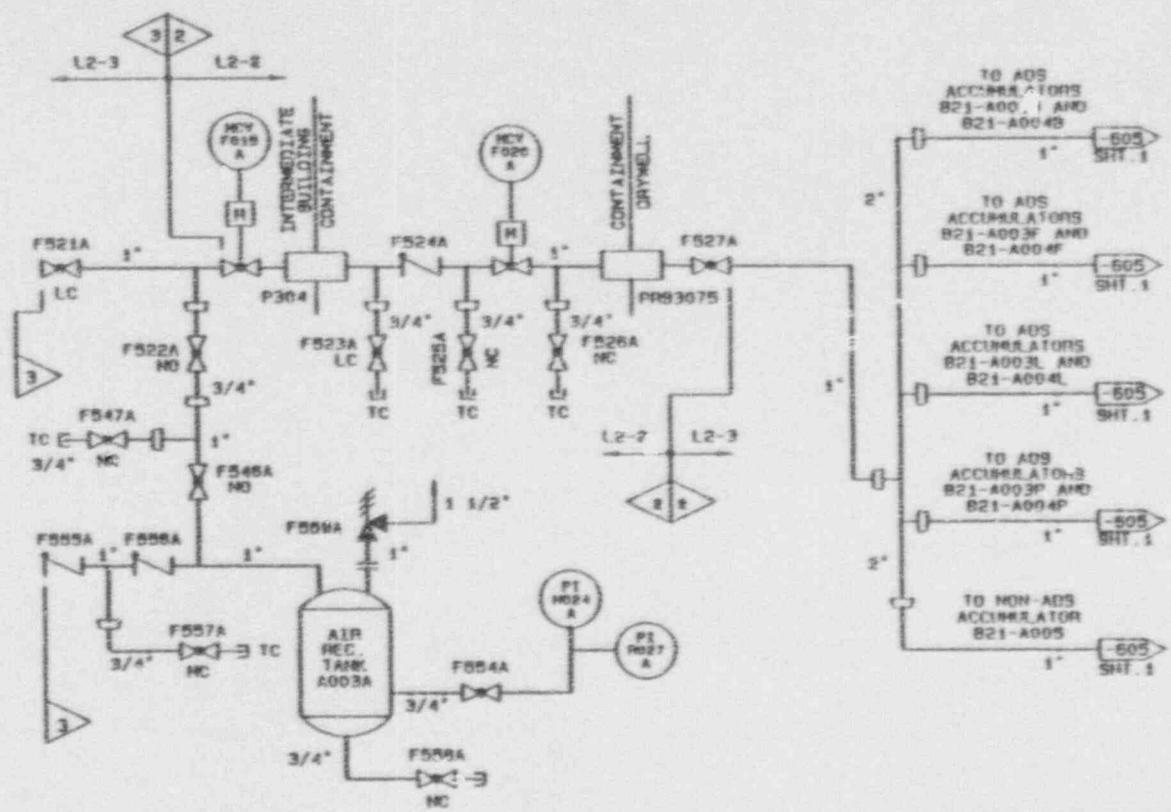
- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-244, REV. B.
  2. THIS PORTION OF THE SYSTEM REPRESENTS THE 1ST CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT LIST PROGRAM STANDARDS/FORMAT INCORPORATED NOV 1999

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		Piping Diagram	
1st CLASSIFICATION BOUNDARY			
FUELLED INSTRUMENT AIR SYSTEM			
NO. CHECKED	DATE	BY	REV.
127	12/21/90	gjs	1
DRAWING NUMBER		SPL. NO.	
SS-305-244		001	

2-27



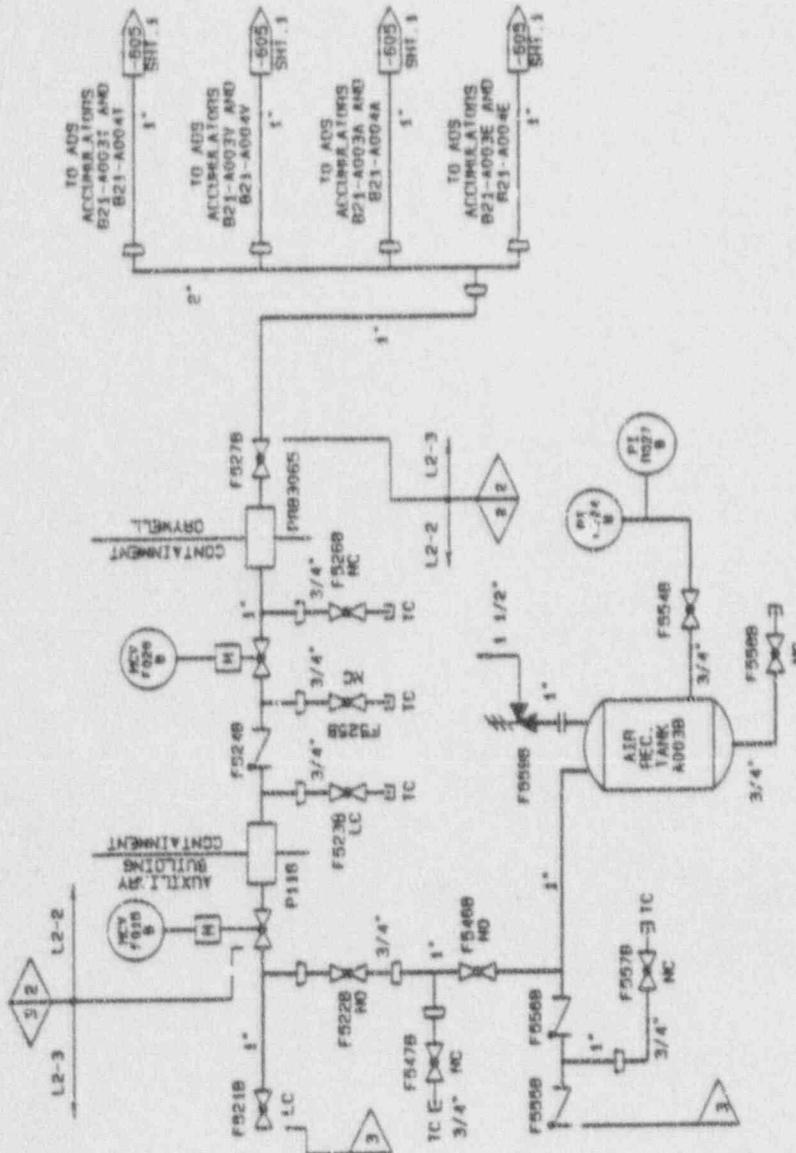
NOTES:

1. THIS DWG. PRODUCED FROM OWD. D-302-271, REV. K.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 AND 3 BOUNDARIES EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT		UNIT 1	
ISI CLASSIFICATION BOUNDARY			
PIPING DIAGRAM			
SAFETY RELATED INSTRUMENT AIR			
NO.	CHECKED	DESIGNER APPROVALS	DATE
N. HOFFMAN	Jan	CMJ	12/17/91
SCALE	SS-305-271		001 3
SYSTEM			
NO.	DRAWING NUMBER		SH. NO. REV.

Rev. 1



REVISED TO CURRENT ISI PROGRAM STANDARDS/CONFORMING TO INCORPORATED ON 0858.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT

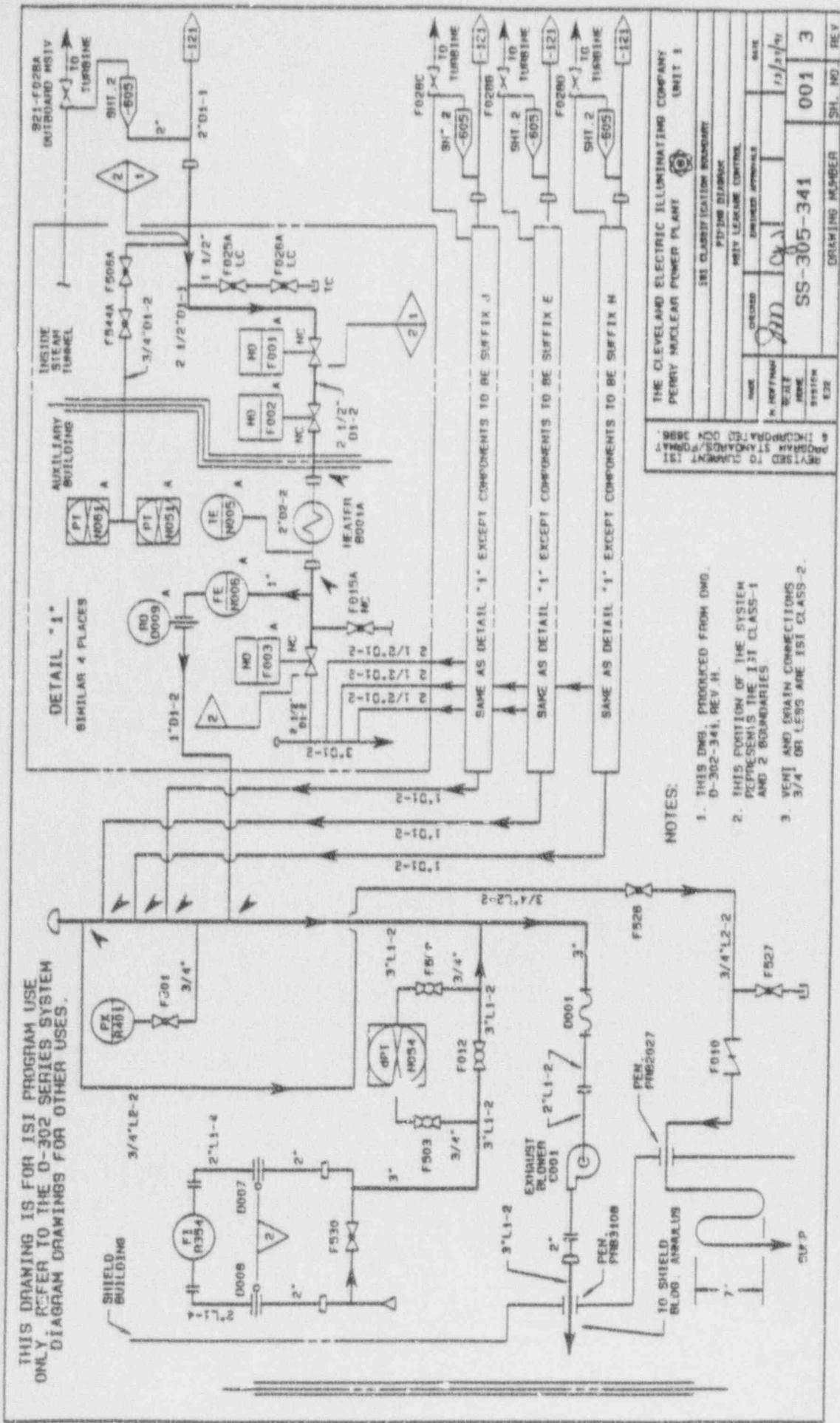
ISI CLASSIFICATION BOUNDARY

DATE	12/21/70
DESIGNED APPROVALS	
SAFETY RELATED INSTRUMENT AIR	
PIPING RELIEF	
NO. OF SHEETS	002
SCALE	SS-305-271
SYSTEM	
DRAWING NUMBER	
SPR. NO.	
REV.	1

NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-302-271, REV. K.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 AND 3 BOUNDARIES EXCEPT AS NOTED.

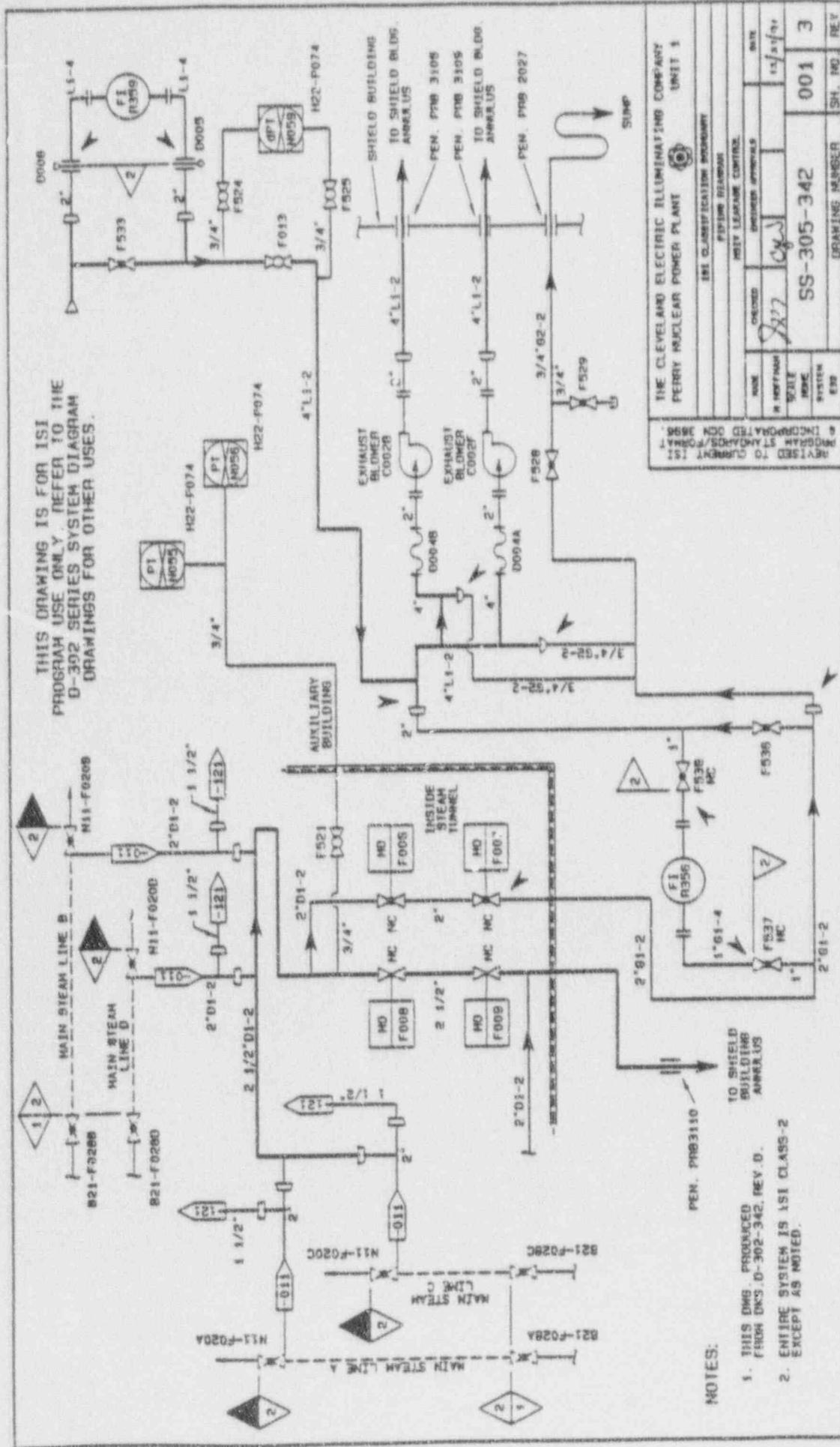
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE O-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-341, REV. H.
  2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-1 AND 2 BOUNDARIES.
  3. VENT AND DRAIN CONNECTIONS 3/4" OR LESS ARE ISI CLASS-2.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		SRI CLASSIFICATION BOUNDARY	
DESIGNED		PERRY LEASING CONTROL	
CHECKED		DESIGNED APPROVALS	
DATE		DATE	
BY		BY	
NO.		NO.	
REV.		REV.	
SS-305-341		001 3	
DRAWING NUMBER		SH. NO. REV.	



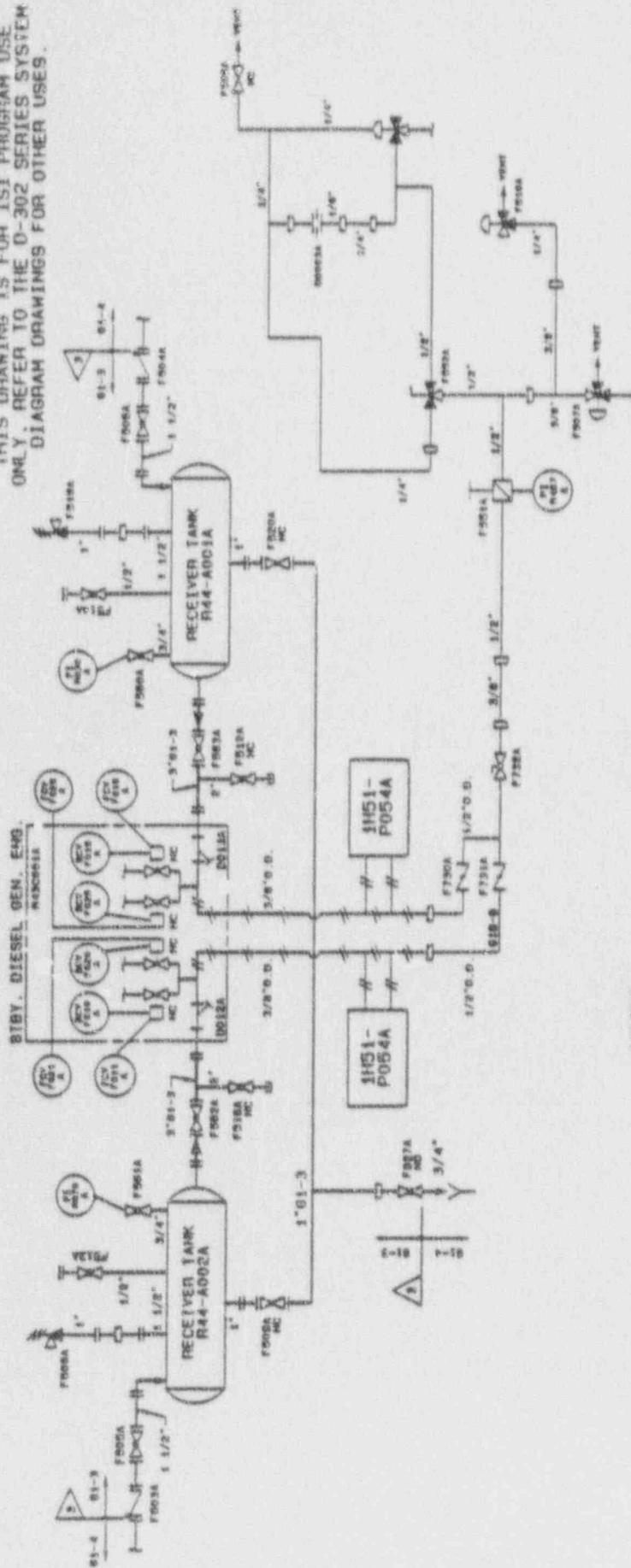
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT STANDARD		INCORPORATED		DATE	
NO. 1	BY	DATE	NO. 2	BY	DATE
1	2/27	12/2/74	2		
SS-305-342			DRAWING NUMBER		
001			SH. NO.		
3			REV.		

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 FERRY NUCLEAR POWER PLANT UNIT 1  
 ISI CLASSIFICATION INDICATOR  
 PIPING INDICATOR  
 PEN. LEAKAGE CONTROL  
 INCLUDES APPENDIX

- NOTES:
1. THIS DWG. PRODUCED FROM DKS D-302-342, REV. D.
  2. ENTIRE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

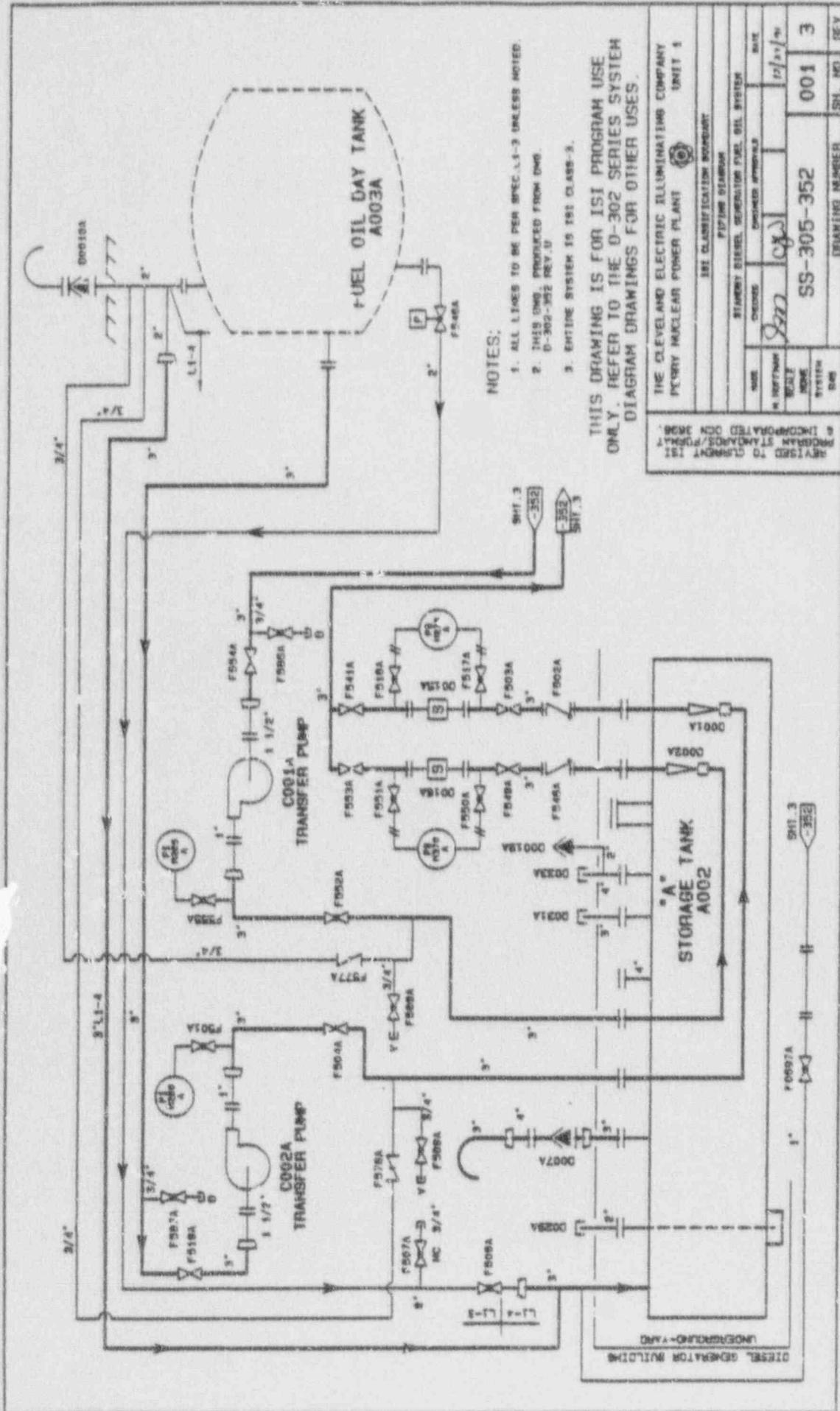
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



NOTES:

1. THIS DRAWING WAS PRODUCED FROM DRAWINGS D-302-345 REV. A, D-302-347, REV. - AND D-302-351, REV. T.
2. "B" TRAIN OF THIS DRAWING IS TYPICAL TO THE "A" TRAIN REFERENCE DRAWINGS D-302-345, REV. C, D-302-346, REV. D AND D-302-351, REV. T.
3. ENTIRE SYSTEM IS ISI CLASS-3 EXCEPT AS NOTED.

REVISED TO CURRENT PROGRAM STANDARDS/FORMS & PROCEDURES DOW 1989.	
DATE	12/31/91
SCALE	AS SHOWN
DESIGNER	JAC
DRYER	SS-305-351
SYSTEM	001
REV	3
DRAWING NUMBER	
SH. NO.	
REV	
PISTON STARTER	
DIV. 1 & 2 STANBY DIESEL GENERATOR STARTING AIR	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR POWER PLANT UNIT 1	

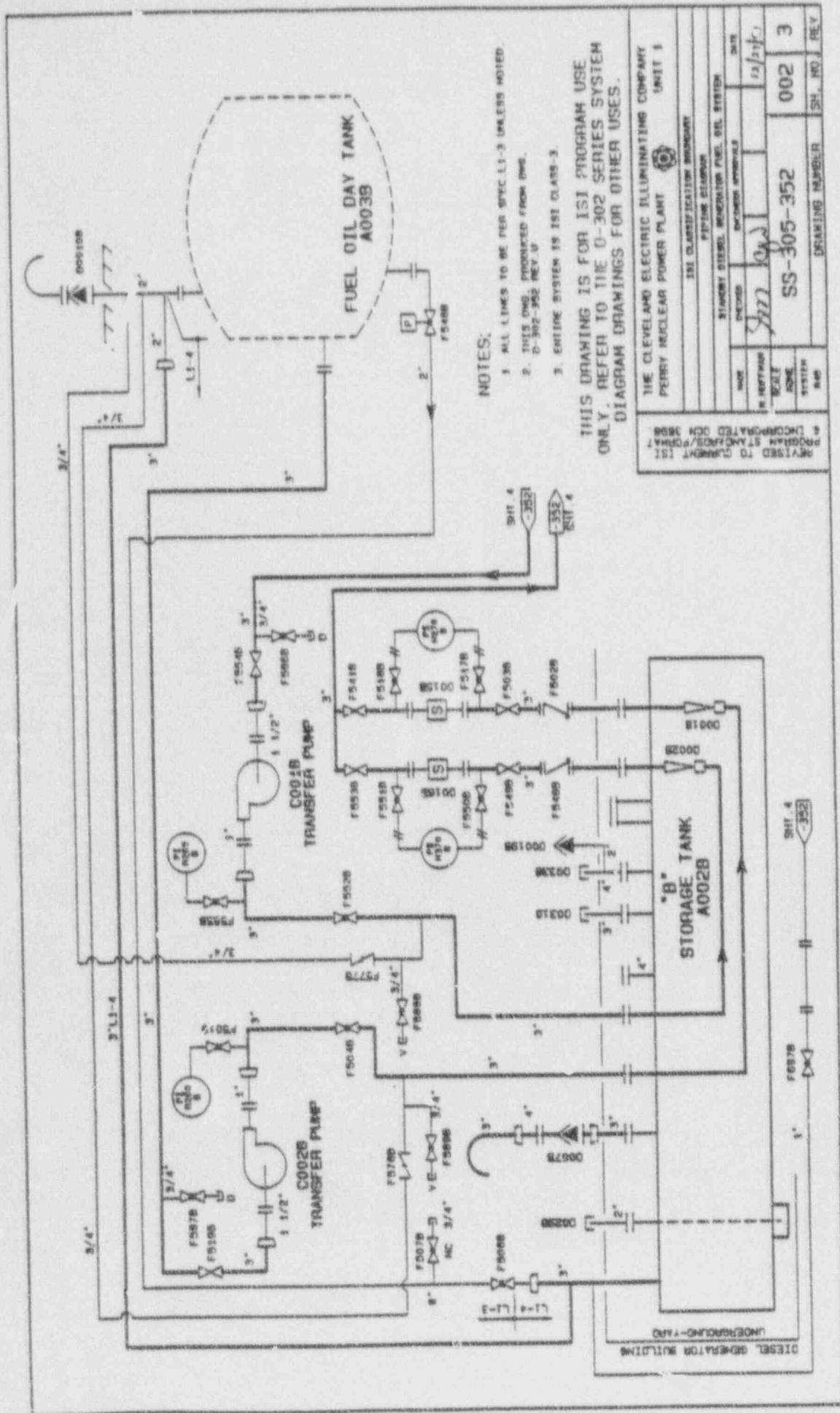


- NOTES:
1. ALL LINES TO BE PER SPEC. L-1-3 UNLESS NOTED.
  2. THIS DWG. PRODUCED FROM DWG. D-302-352 REV. U.
  3. ENTIRE SYSTEM IS 151 CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISIONS TO BE MADE TO THIS DRAWING		DATE	
NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	12/1/70	SM
2	ISSUED FOR CONSTRUCTION		
3	ISSUED FOR CONSTRUCTION		
4	ISSUED FOR CONSTRUCTION		
5	ISSUED FOR CONSTRUCTION		
6	ISSUED FOR CONSTRUCTION		
7	ISSUED FOR CONSTRUCTION		
8	ISSUED FOR CONSTRUCTION		
9	ISSUED FOR CONSTRUCTION		
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91	ISSUED FOR CONSTRUCTION		
92	ISSUED FOR CONSTRUCTION		
93	ISSUED FOR CONSTRUCTION		
94	ISSUED FOR CONSTRUCTION		
95	ISSUED FOR CONSTRUCTION		
96	ISSUED FOR CONSTRUCTION		
97	ISSUED FOR CONSTRUCTION		
98	ISSUED FOR CONSTRUCTION		
99	ISSUED FOR CONSTRUCTION		
100	ISSUED FOR CONSTRUCTION		

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 FERRY NUCLEAR POWER PLANT UNIT 1  
 151 CLASSIFICATION BOUNDARY  
 FUEL OIL SYSTEM  
 STATION DIESEL GENERATOR FUEL OIL SYSTEM  
 DATE  
 12/1/70  
 001  
 3  
 55-305-352  
 DRAWING NUMBER  
 SH. NO. REV

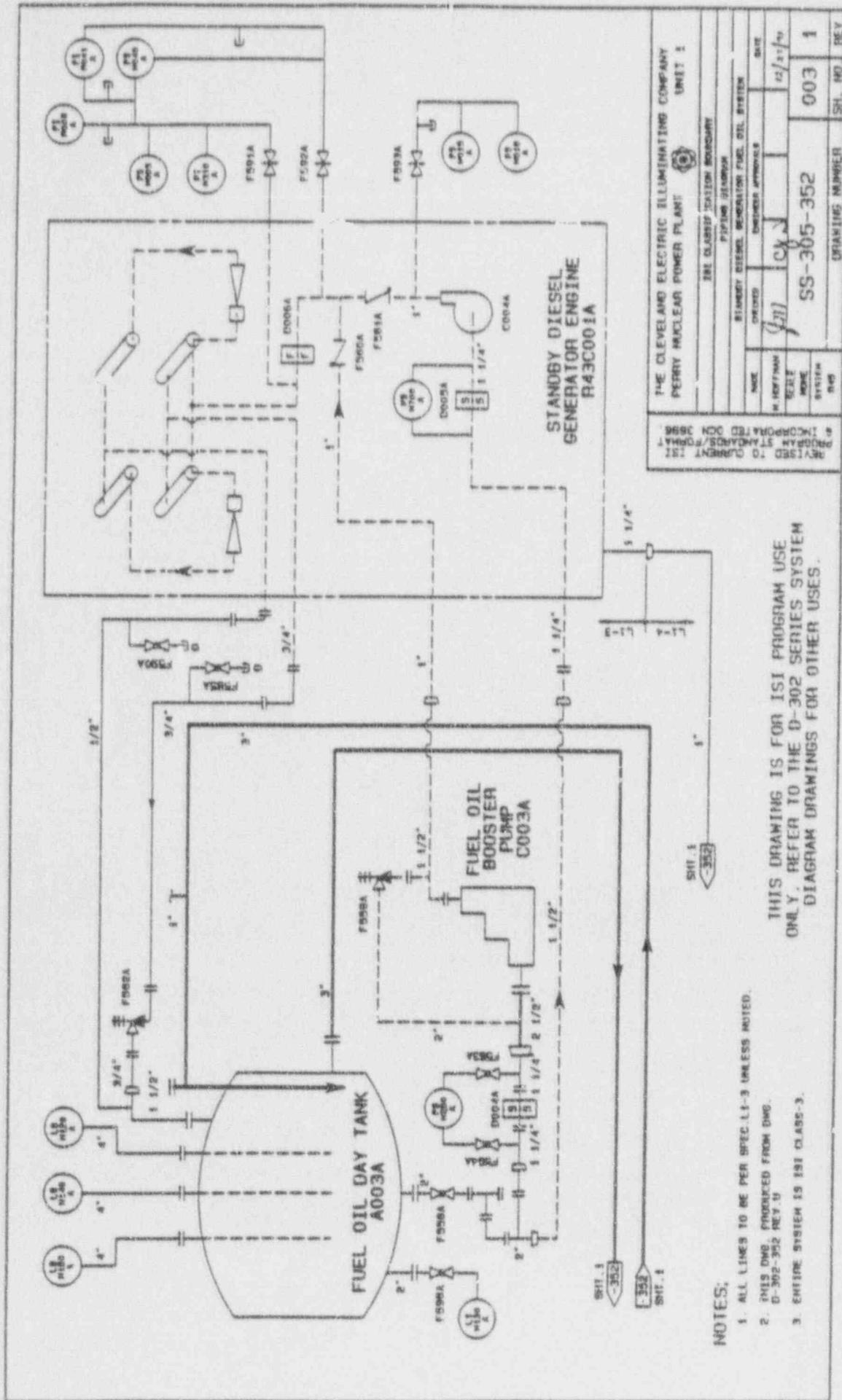


NOTES:

1. ALL LINES TO BE PER SPEC L1-3 UNLESS NOTED.
2. THIS DWG PRODUCED FROM DWS. D-302-352 REV. 0.
3. ENTIRE SYSTEM IS ISI CLASS-3.

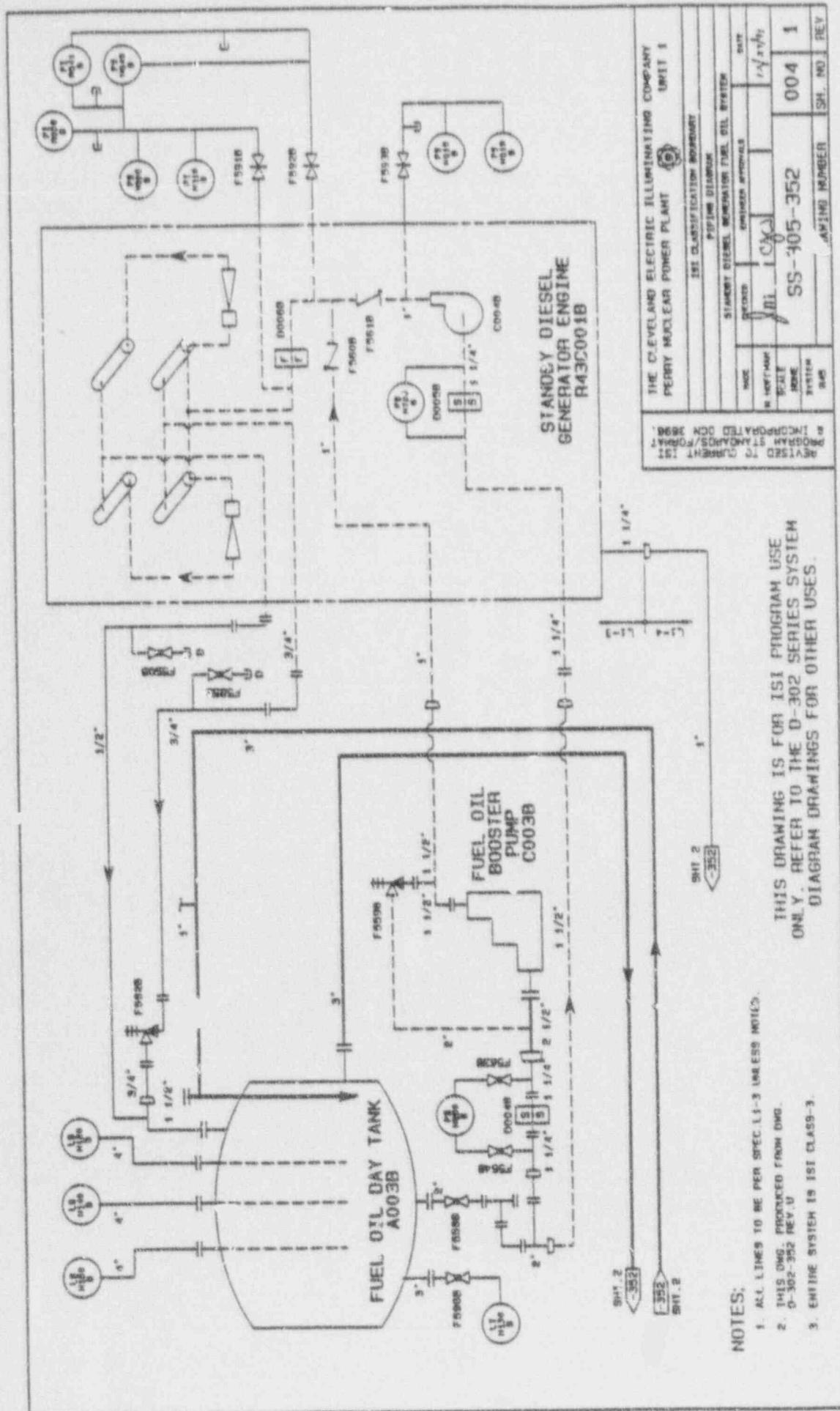
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO 0-302-352		DRAWING NUMBER		SH. NO.		REV.	
PROGRAM STANDARDS/0-302-352		SS-305-352		002		3	
DATE		DATE		DATE		DATE	
12/21/60		12/21/60		12/21/60		12/21/60	
DESIGNED		CHECKED		APPROVED		DATE	
J. J. J.		J. J. J.		J. J. J.		12/21/60	
STANDARD DESIGN, REGENERATOR FUEL OIL SYSTEM		ISI CLASSIFICATION BOUNDARY		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		PERRY NUCLEAR POWER PLANT		PERRY NUCLEAR POWER PLANT		PERRY NUCLEAR POWER PLANT	



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

- NOTES:**
1. ALL LINES TO BE PER SPEC. L1-3 UNLESS NOTED.
  2. THIS DWG. FURNISHED FROM DWG. D-302-352 REV. U.
  3. ENTIRE SYSTEM IS ISI CLASS-3.



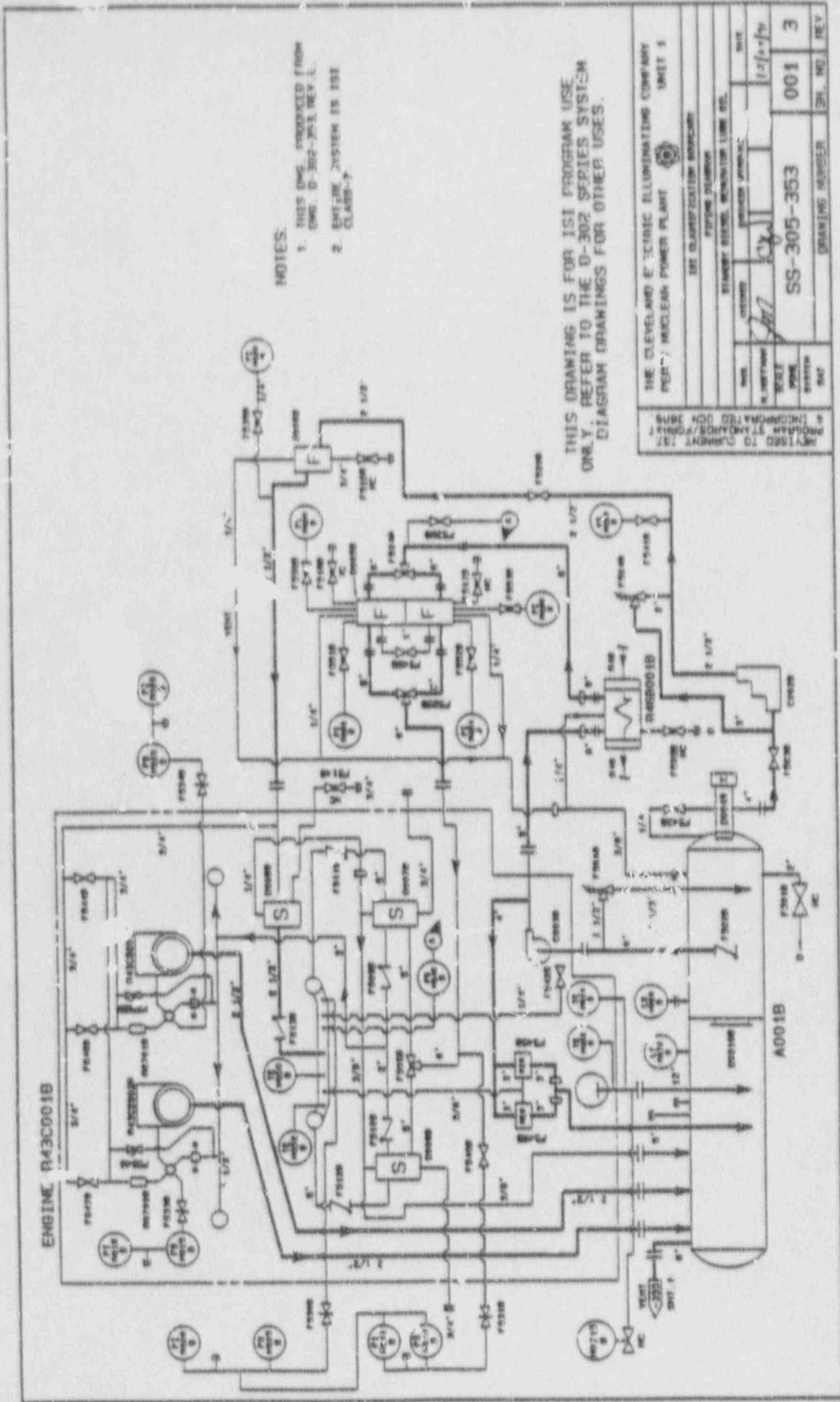
NOTES:

1. ALL LINES TO BE PER SPEC. L1-3 UNLESS NOTED.
2. THIS DWG. PRODUCED FROM DWG. D-302-352 REV. U
3. ENTIRE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISOR'S NAME AND/OR COMPANY  
 INCORPORATED ON 12/11/58  
 CURRENT FORM 121-111-101

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY FERRY NUCLEAR POWER PLANT		UNIT 1	
ISI CLASSIFICATION BOUNDARY			
PIPING DIAGRAM			
NO. OF SHEETS	DATE	DESIGNED BY	SCALE
1	1/17/57	J. J. [Signature]	1/4" x 1/4"
ISSUED BY	APPROVED BY	DRAWING NUMBER	SH. NO.
[Signature]	[Signature]	SS-105-352	004
SYSTEM	REV.		1
DWG.			

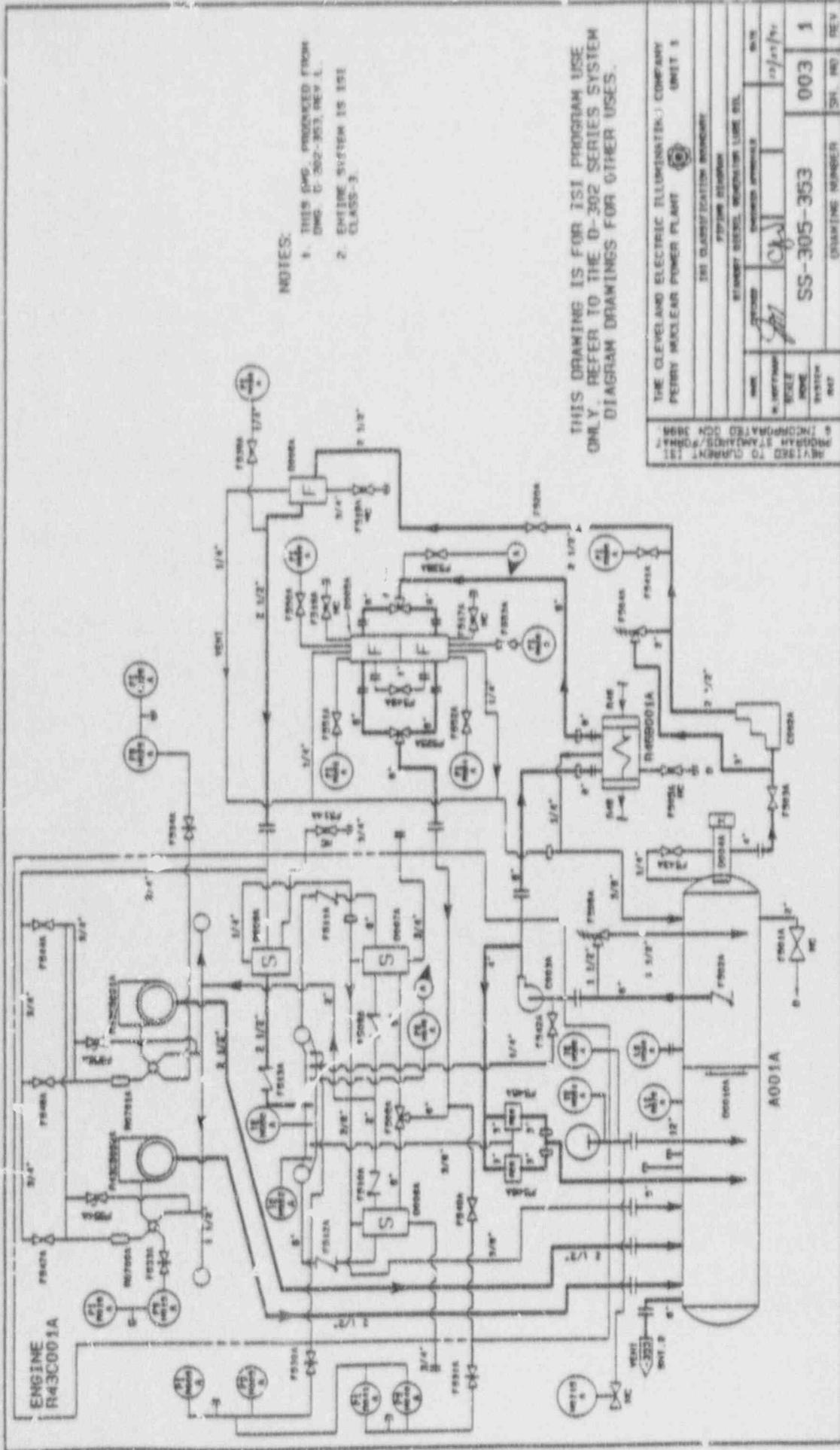


NOTES:

1. THIS DWG. DERIVED FROM DWG. D-302-353 REV. 1.
2. ENGINE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

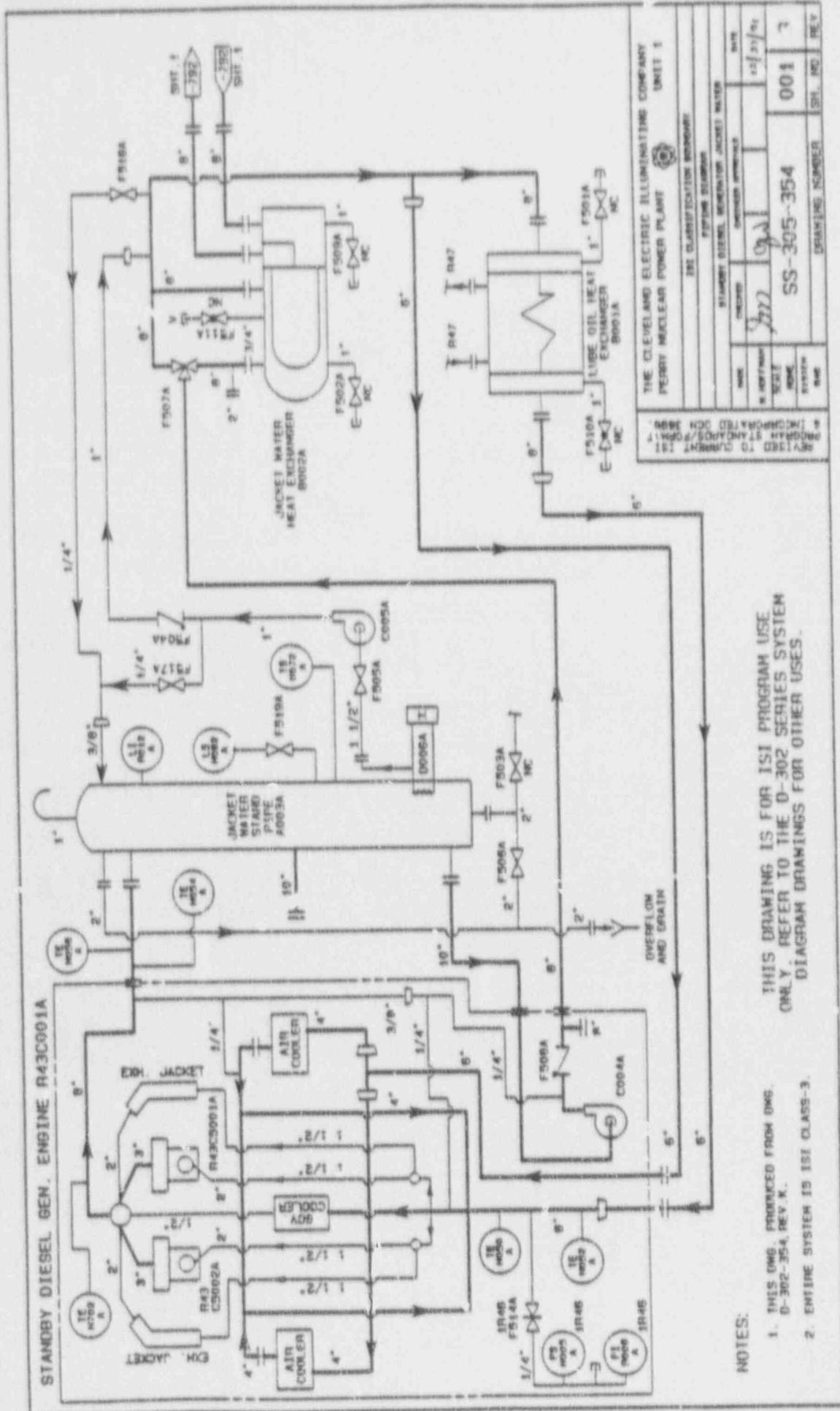
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1	
WEST-7 NUCLEAR POWER PLANT	
ISI CLASSIFICATION: NONSECURITY	
DATE	ISSUED
BY	BY
SCALE	SCALE
001	001
3	3
DRAWING NUMBER	SH. NO. REV.
SS-305-353	



- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-262-303, REV. 1.
  2. ENTIRE SYSTEM IS ISI CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CLARIFY	DATE	BY	CHKD BY
INCREASED FLOW	12/21/84	[Signature]	[Signature]
127	SCALE	003	1
	SYSTEM		
	NO. REV.		
	DRIVING NUMBER		
	SH. NO.		
	REV.		
PROGRAM DRAWING			
STANDARD SYMBOLS, REGULATORY LINE SCL.			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 3			
PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION SYMBOL			



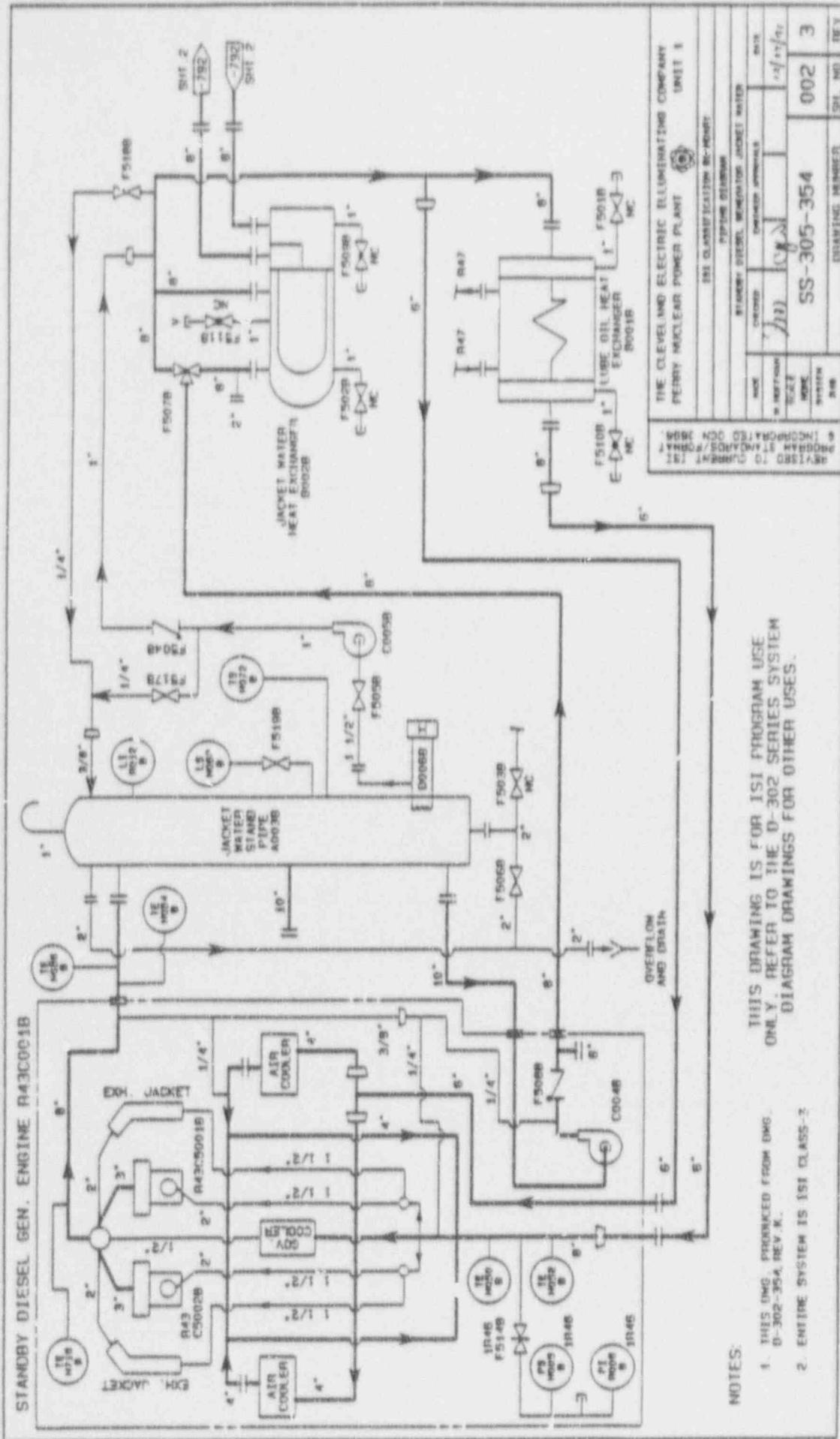
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
 PERRY NUCLEAR POWER PLANT  
 282 CLASSIFICATION MARKING

DATE	12/21/61
REVISION	
ISSUED BY	J. J. [Signature]
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DRINKING NUMBER	SS-305-354
001	7
REV	

NOTES:

1. THIS Dwg. PRODUCED FROM Dwg. D-302-354, REV. N.
2. ENTIRE SYSTEM IS IST CLASS-3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

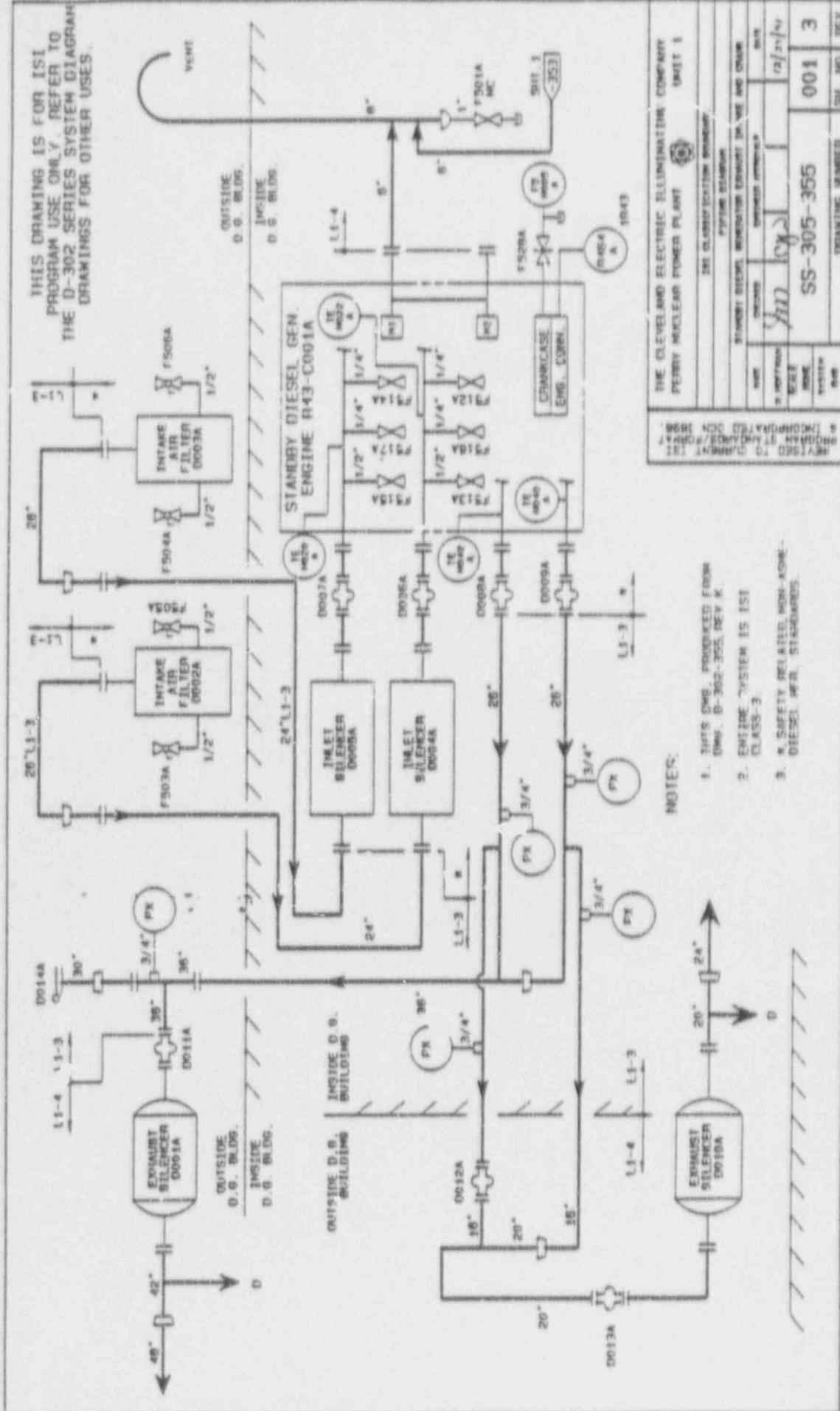


NOTES:

1. THIS Dwg. PROMULGATED FROM Dwg. D-302-354, REV. K.
2. ENTIRE SYSTEM IS ISI CLASS-2

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

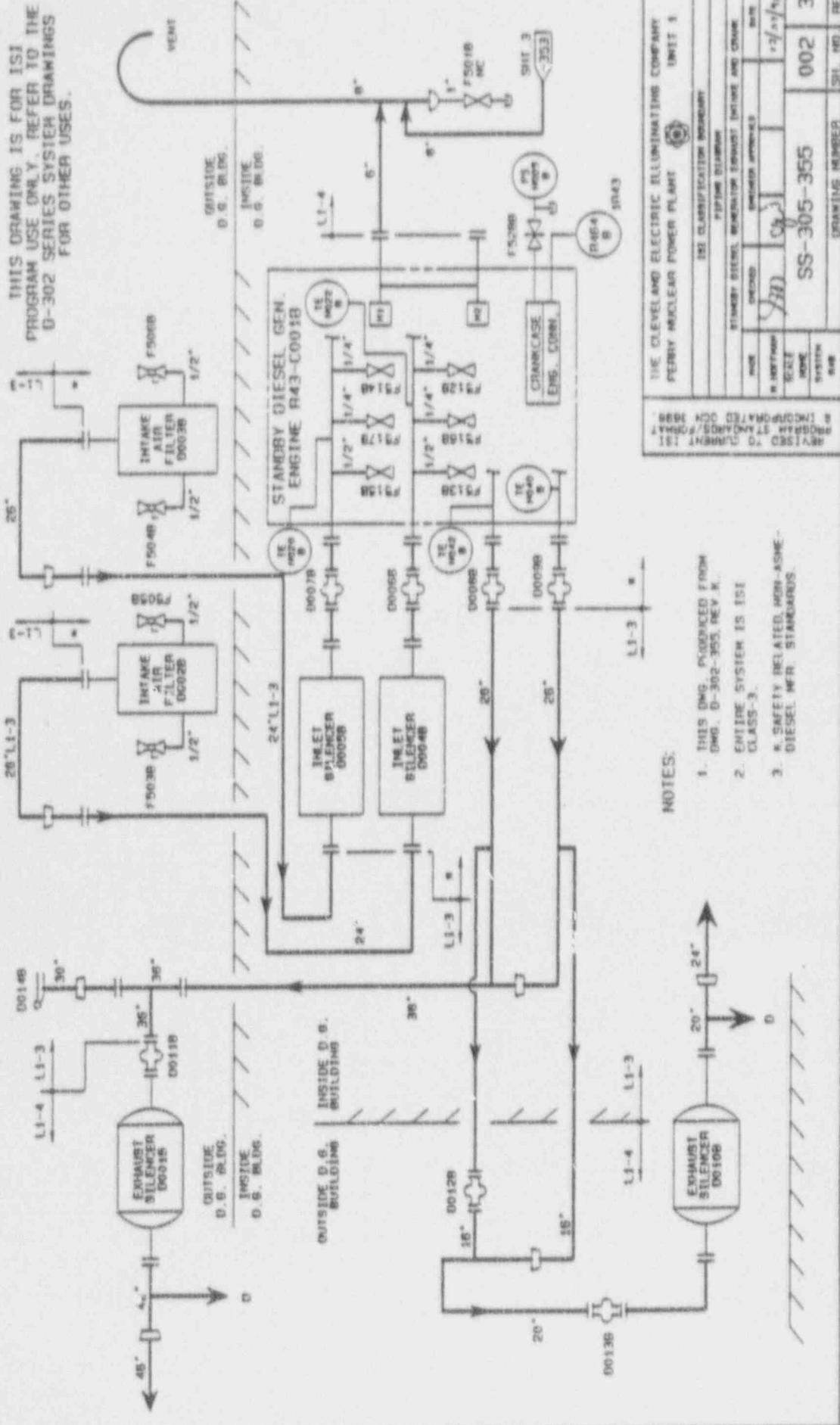
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



- NOTES:
1. THIS DWS PRODUCED FROM DWS. D-302-355, REV. K.
  2. ENGINE SYSTEM IS ISI CLASS-3.
  3. ALL SAFETY RELATED HIGH-ACTIVE DIESEL WFR STANDARDS.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR POWER PLANT	
SHEET 1	
THIS CLASSIFICATION REMAINS PROPRIETARY	
PROJECT NO.	SS-305-355
DATE	12/2/74
ISSUE NO.	001
REV.	3
DRAWING NUMBER	001 3
SH. NO.	REV.

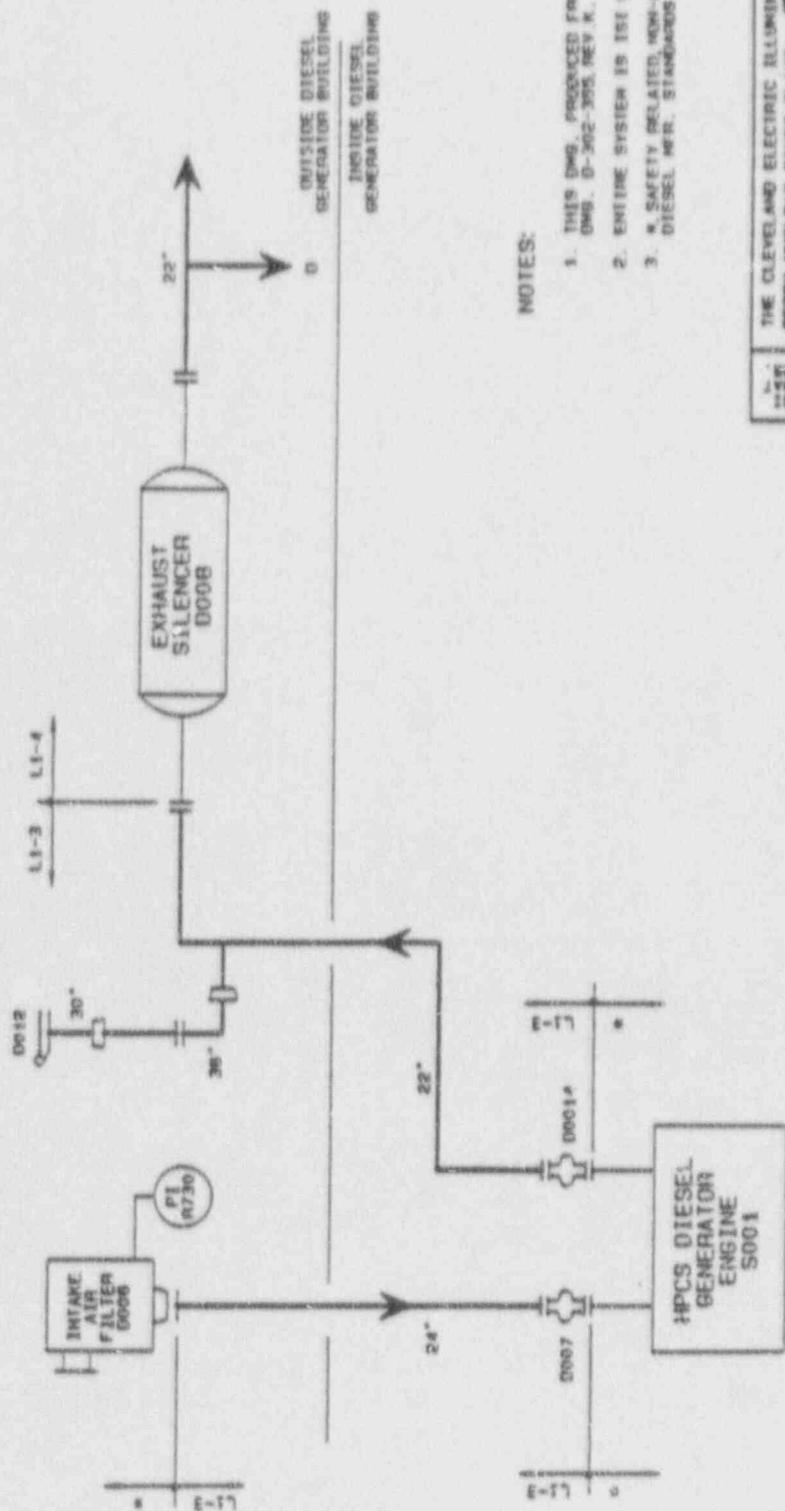
THIS DRAWING IS FOR ISI  
PROGRAM USE ONLY. REFER TO THE  
D-302 SERIES SYSTEM DRAWINGS  
FOR OTHER USES.



NOTES:

1. THIS Dwg. DERIVED FROM Dwg. D-302-355, REV. K.
2. ENTIRE SYSTEM IS ISI CLASS-3.
3. SAFETY RELATED, NON-ASME-DIESEL MFR. STANDARDS.

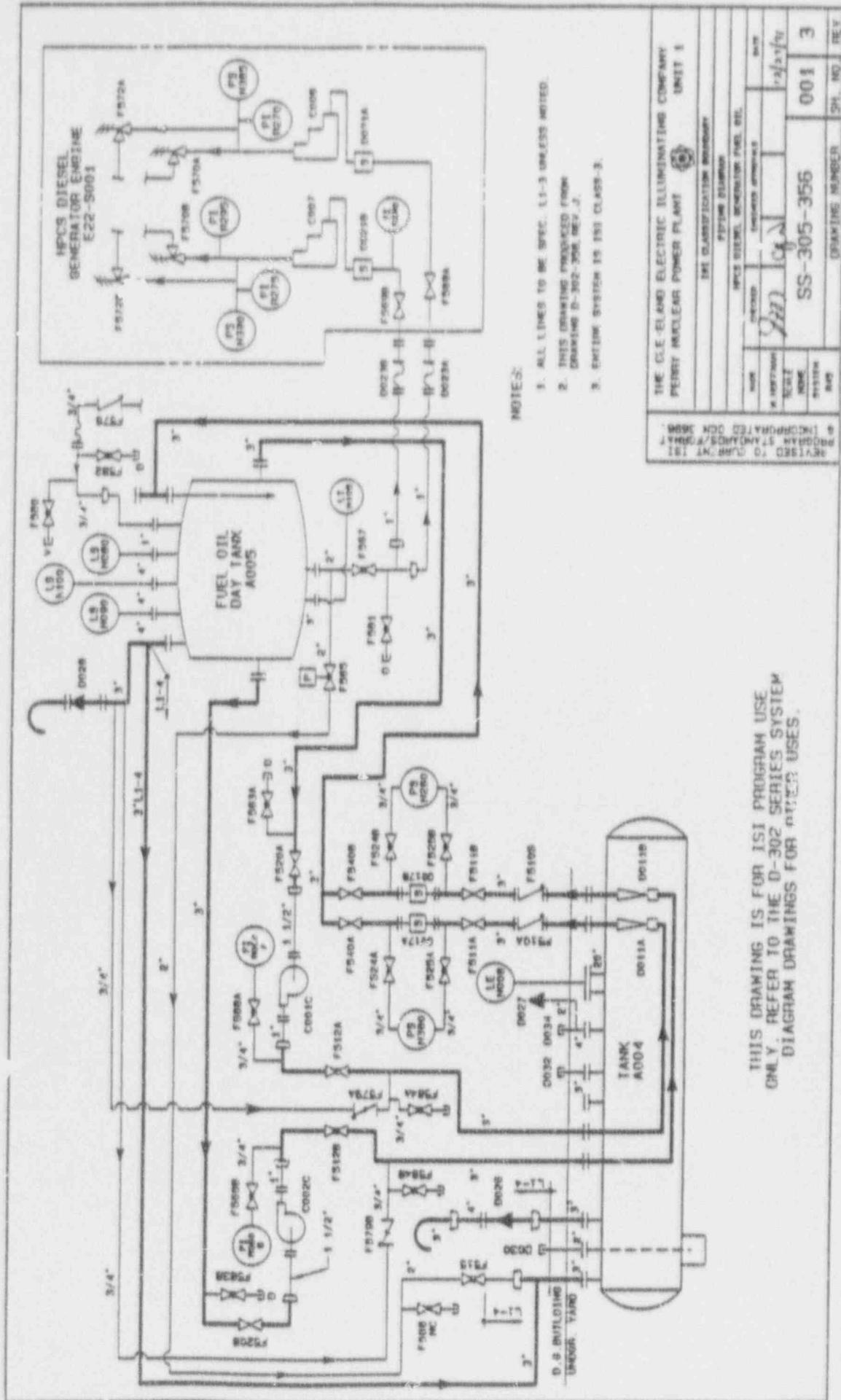
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY FERRY NUCLEAR POWER PLANT UNIT 1	
100 CLASSIFICATION SYMBOL	
FIFTH FLLOOR	
NO. 001	ISSUED APPROX. 12/25/70
BY: <i>AB</i>	DATE
CHKD: <i>AB</i>	REVISIONS
NO. 002	002
NO. 003	3
NO. 004	
NO. 005	
NO. 006	
NO. 007	
NO. 008	
NO. 009	
NO. 010	
NO. 011	
NO. 012	
NO. 013	
NO. 014	
NO. 015	
NO. 016	
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NO. 092	
NO. 093	
NO. 094	
NO. 095	
NO. 096	
NO. 097	
NO. 098	
NO. 099	
NO. 100	



- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-305, REV. K.
  2. ENTIRE SYSTEM IS ISI CLASS-3.
  3. SAFETY RELATED, NON-ASME DIESEL MFR. STANDARDS.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM AGRAM DRAWINGS FOR OTHER USES.

REVISED TO CORRECT 1ST PROGRAM STAMP/AGRAM PROGRAM		DATE	
DATE	BY	DATE	BY
12/21/67	SS	12/21/67	SS
DRAWING NUMBER		REV	
SS-305-355		003 3	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1			
SEE CLASSIFICATION MEMORANDUM			
FIFTH EDITION			
HPCS DIESEL GENERATOR EXHAUST SYSTEM AND CHIMNEY			

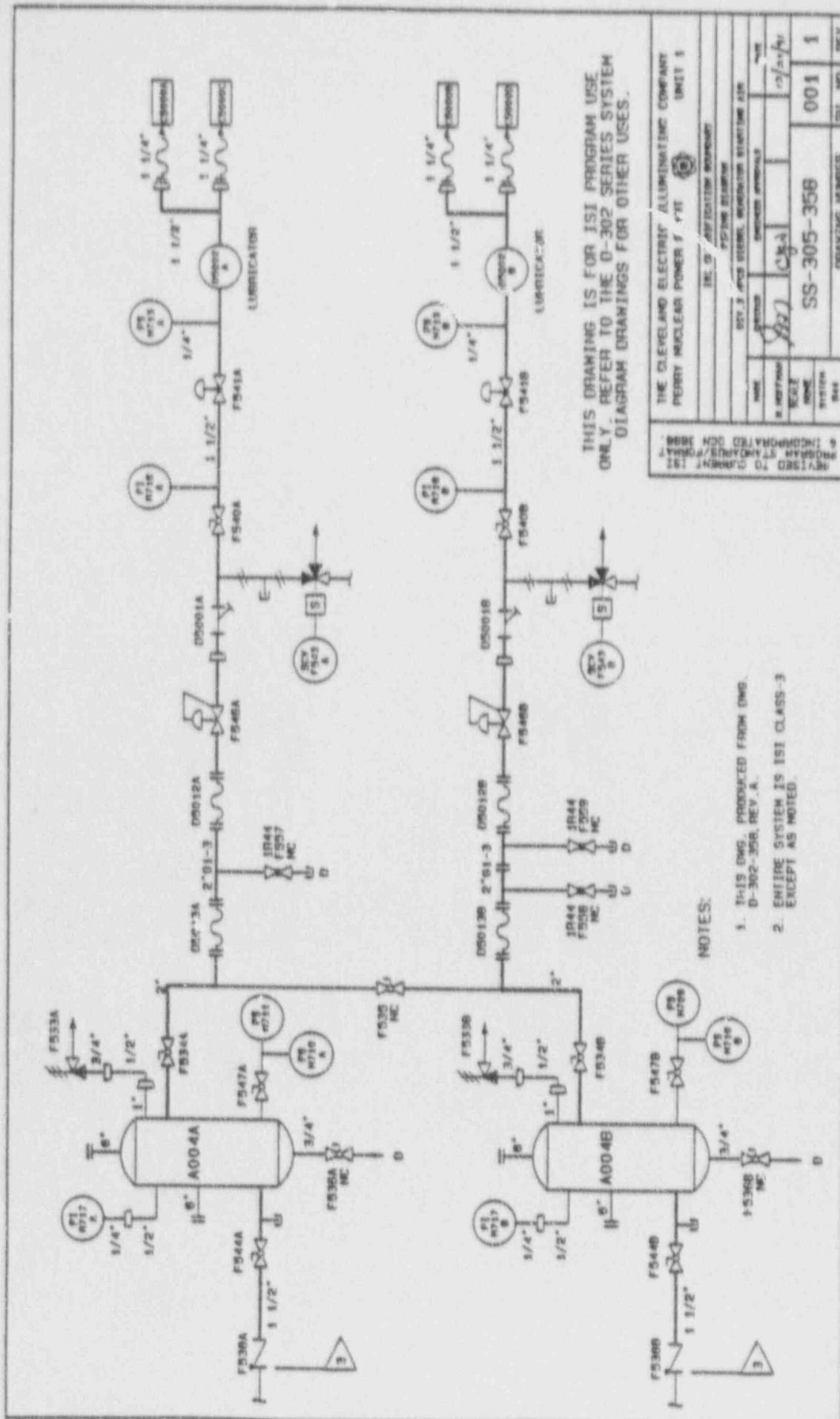


NOTES:

1. ALL LINES TO BE SPEC. L1-3 UNLESS NOTED.
2. THIS DRAWING PRODUCED FROM DRAWING D-302-305, REV. J.
3. ENTIRE SYSTEM IS ISI CLASS-3.

REVISED TO CLARIFY 181 PROGRAM STANDARDS/FORMAT INCORPORATED ON 0889		THE CLASSIFICATION BOUNDARY	
PERRY NUCLEAR POWER PLANT UNIT 1			
THE CLASSIFICATION BOUNDARY			
P21000 DUMP			
P21000 DIESEL GENERATOR FUEL ETC.			
NO. REVISED	BY	DATE	
1	J.M.	12/2/70	
NO. APPROVED	DATE		
1			
NO. INCORPORATED	DATE		
1			
NO. SYSTEM	NO.	DRINKING NUMBER	SP. NO. REV.
		SS-305-355	001 3

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

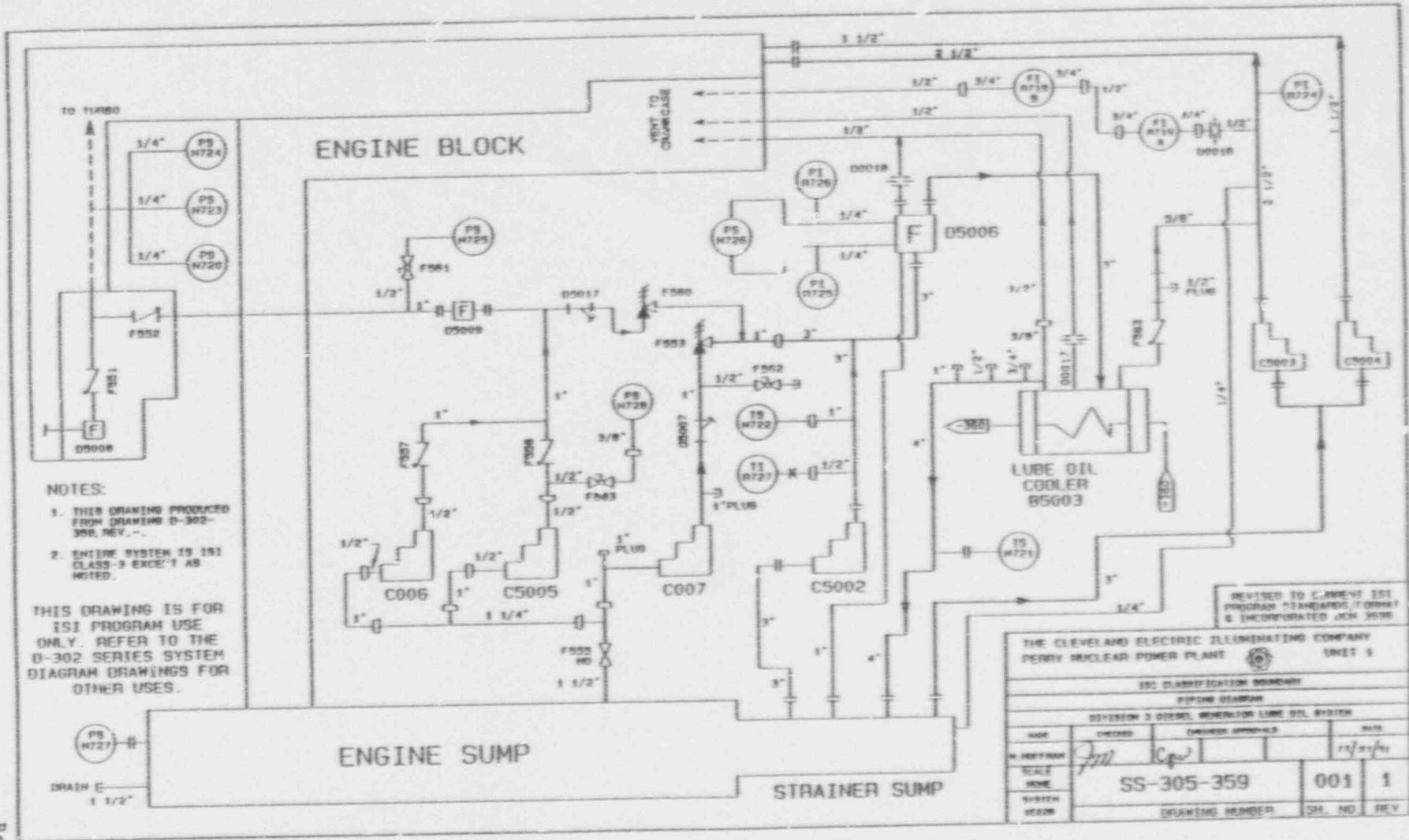


THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ALUMINATING COMPANY	
PERRY NUCLEAR POWER PLANT	
UNIT 1	
REV. 3	
DATE	02/21/61
BY	WJG
CHECKED	WJG
DESIGNED	WJG
ISSUED	001
REVISED	1
DRAWING NUMBER	
SS-305-358	
REV. NO	
REV	

- NOTES:
1. 11-18 DWG. PRODUCED FROM DWG. D-302-358, REV. A.
  2. ENTIRE SYSTEM IS ISI CLASS-3 EXCEPT AS NOTED.

2-45



NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-359, REV. -.
2. ENTIRE SYSTEM IS IS1 CLASS-3 EXCEPT AS NOTED.

THIS DRAWING IS FOR IS1 PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT IS1 PROGRAM STANDARDS (FORM 1) & INCORPORATED JCH 3036

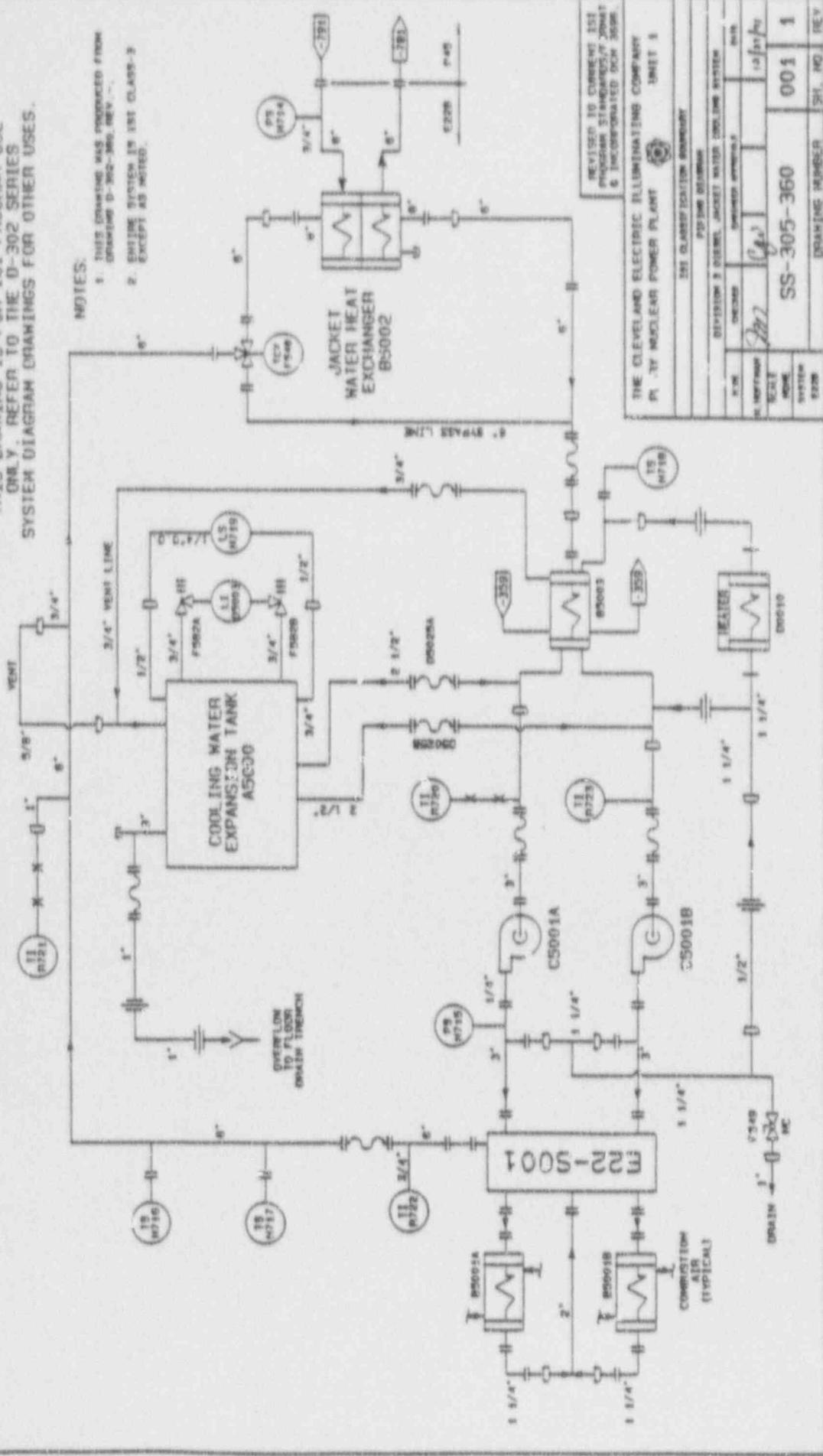
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT UNIT 1			
IS1 CLASSIFICATION BOUNDARY			
PIPING DIAGRAM			
DIVISION 3 DIESEL GENERATOR LUBE OIL SYSTEM			
NO.	DESIGNED	ENGINEER APPROVAL	DATE
H. ROYMAN	J. M. [Signature]	C. [Signature]	11/21/60
SCALE	SS-305-359		001 1
SYSTEM	DRAWING NUMBER		CH. NO. REV.
ISSUE			

Rev. 1

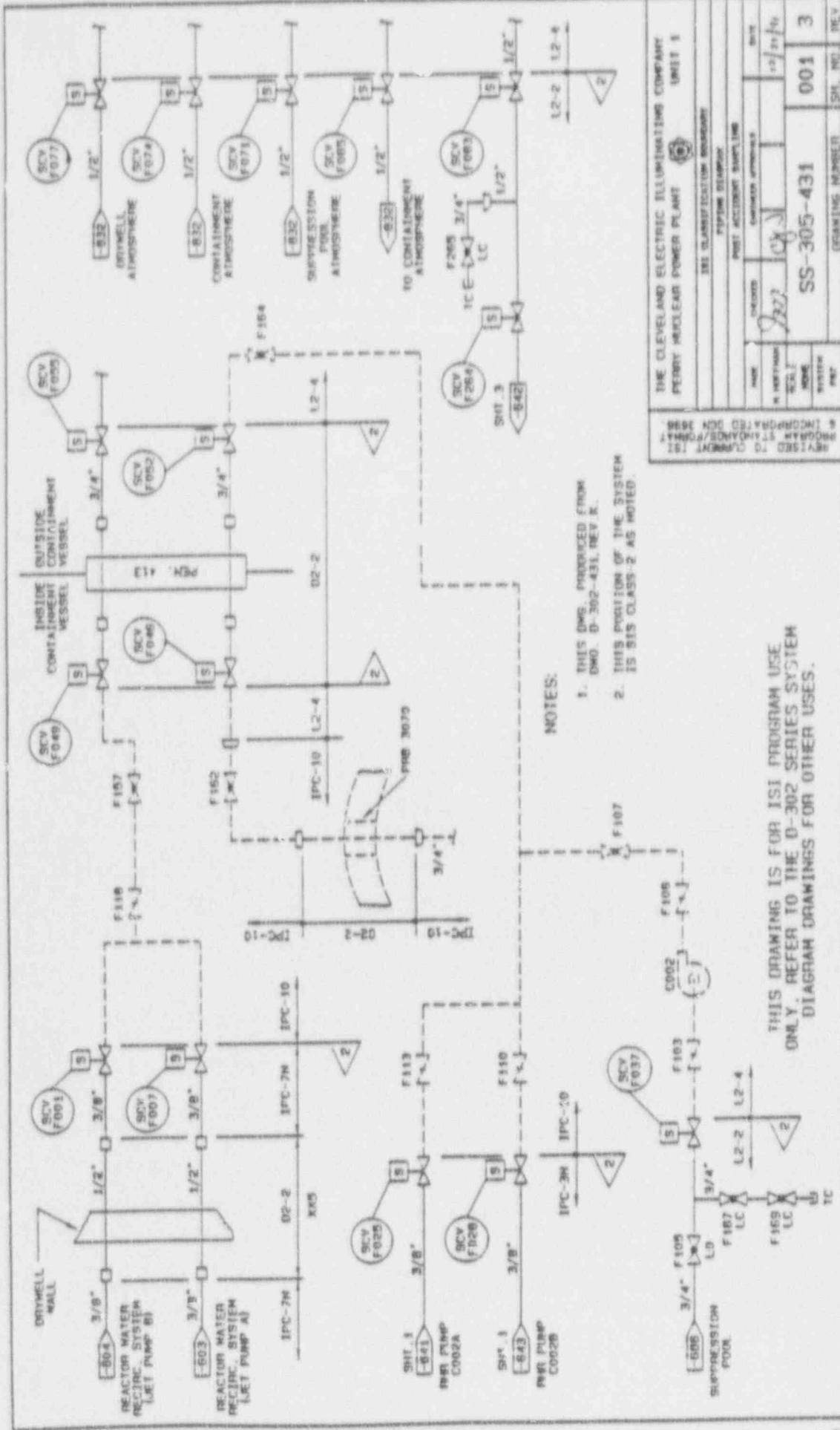
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DRAWING WAS PRODUCED FROM DRAWING D-302-MG, REV. 1.
2. SHINE SYSTEM IS ISI CLASS-B EXCEPT AS NOTED.



REVISED TO CURRENT ISI PROGRAM STANDARDS AT JMWAT & INCORPORATED DCN 3606	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY SHEET 3	
ISI CLASSIFICATION SYMBOL	
DIVISION 3 CORE, JACKET WATER COOLING SYSTEM	
Piping Diagram	
DATE	10/10/60
DESIGNED BY	JG
CHECKED BY	JG
SCALE	AS SHOWN
SYSTEM	SS-305-360
DATE	001
REV	1
DRAWING NUMBER	SS-305-360
SHEET NO	001
REV	1

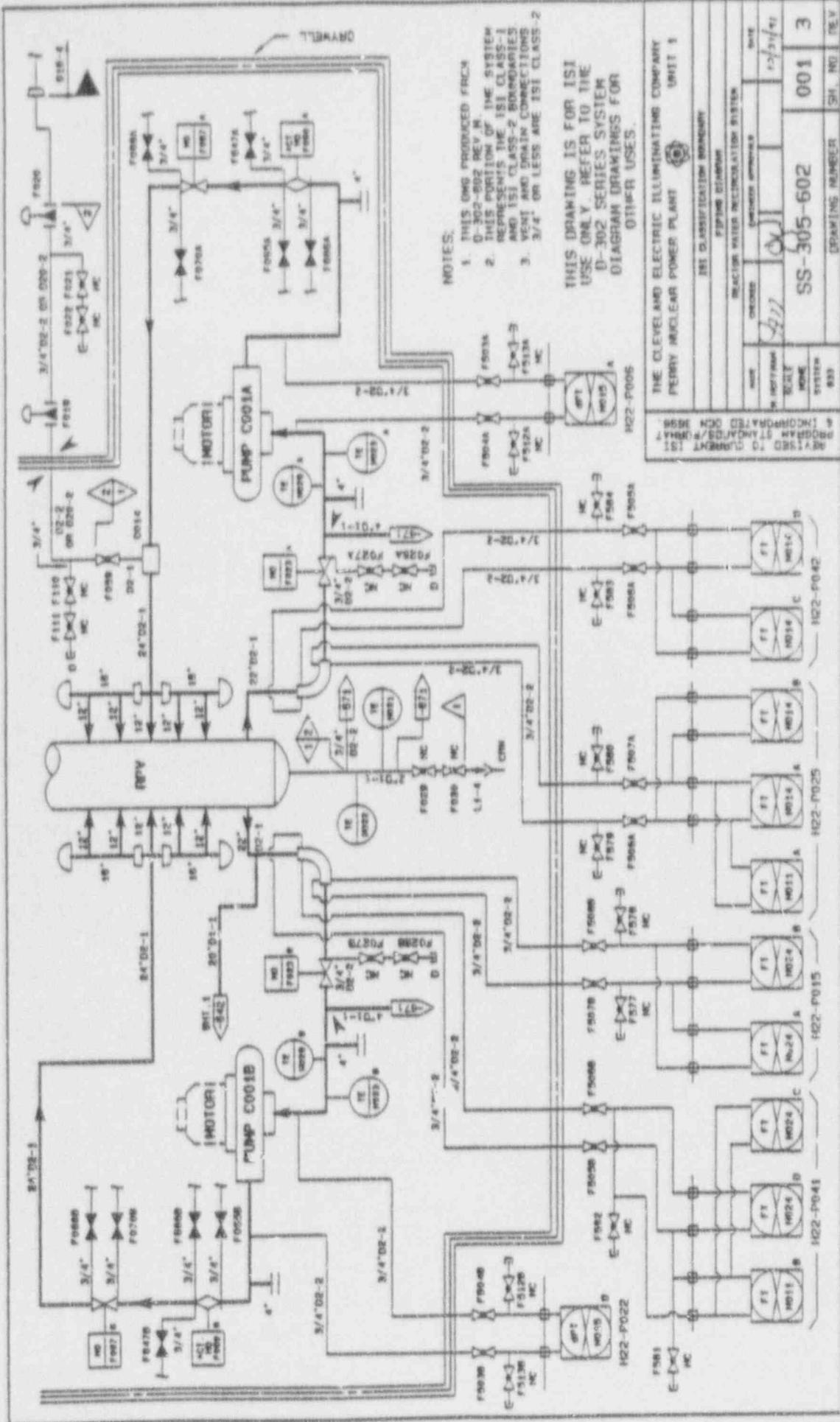


NOTES:

1. THIS DWS. PRODUCED FROM DWO. D-302-431, REV. K.
2. THIS POSITION OF THE SYSTEM IS SIS CLASS-2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PEBBY NUCLEAR POWER PLANT UNIT 1			
SIS CLASSIFICATION BOUNDARY FORUM DELAWARE			
NAME	INCHES	OWNER APPROVAL	DATE
R. W. HARRIS	2 1/2	10/21/74	
DESIGN			
ISSUE NO.	SS-305-431	001	3
SYSTEM	DRAWING NUMBER	SHT. NO.	REV.



NOTES:

1. THIS Dwg PRODUCED FROM D-302-602 REV N.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-1 AND ISI CLASS-2 BOUNDARIES AND ISI CLASS-2 BOUNDARIES VESSEL AND DRAIN CONNECTIONS.
3. 3/4" OR LESS ARE ISI CLASS-2

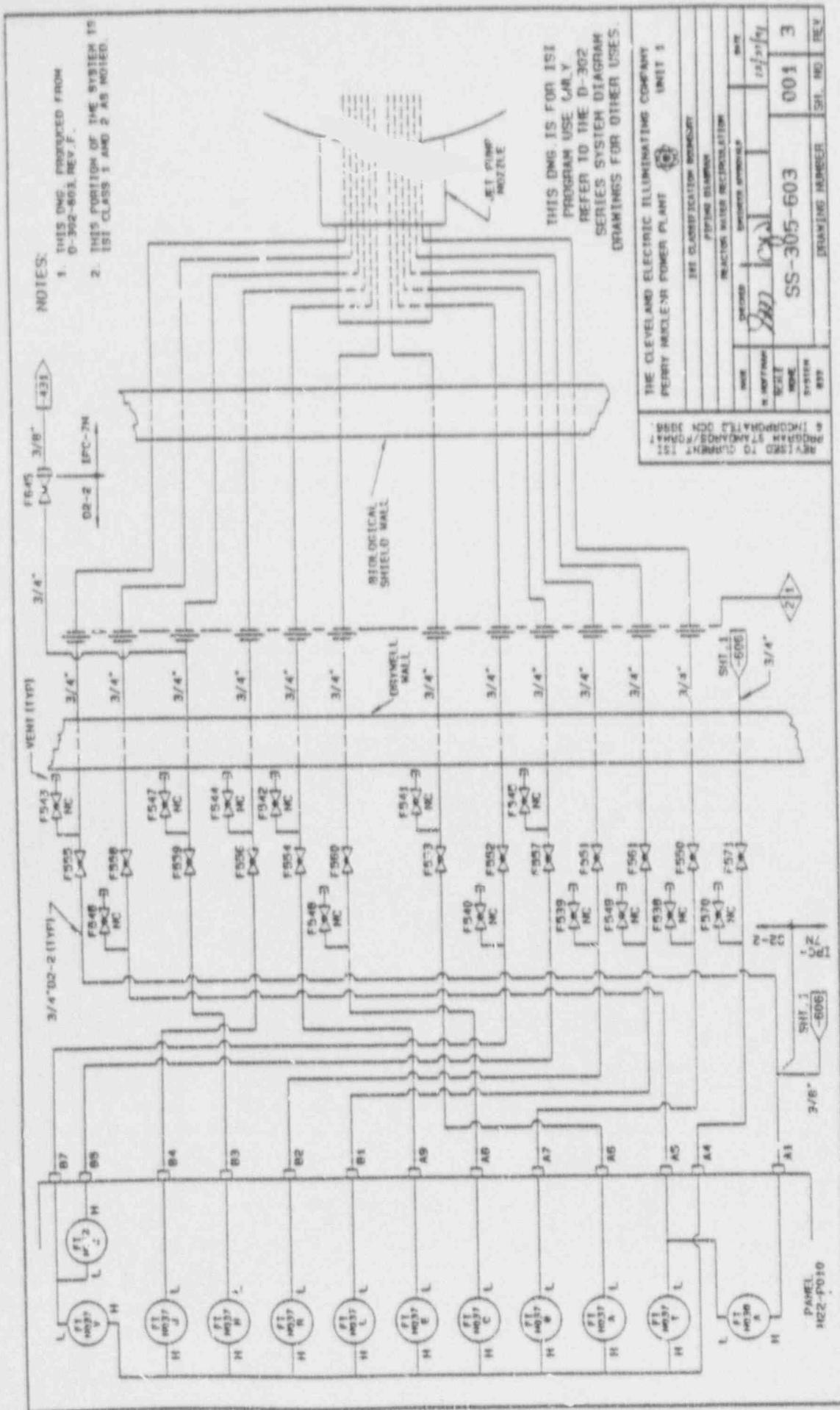
THIS DRAWING IS FOR ISI USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
 PERRY NUCLEAR POWER PLANT

ISI D. CLASSIFICATION BOUNDARY  
 PIPING SYSTEM  
 REACTOR WATER DECELERATION SYSTEM

DATE	12/31/41
DESIGNED BY	...
CHECKED BY	...
INSTRUMENTED BY	...
SYSTEM NO.	833
DRAWING NUMBER	SS-305-602
SH. NO.	001
REV.	3

REVISIONS:  
 1. 12/31/41  
 2. 12/31/41  
 3. 12/31/41



NOTES:

1. THIS DWG. PRODUCED FROM D-302-603, REV. F.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1 AND 2 AS NOTED.

THIS DWG. IS FOR ISI PROGRAM USE ONLY REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

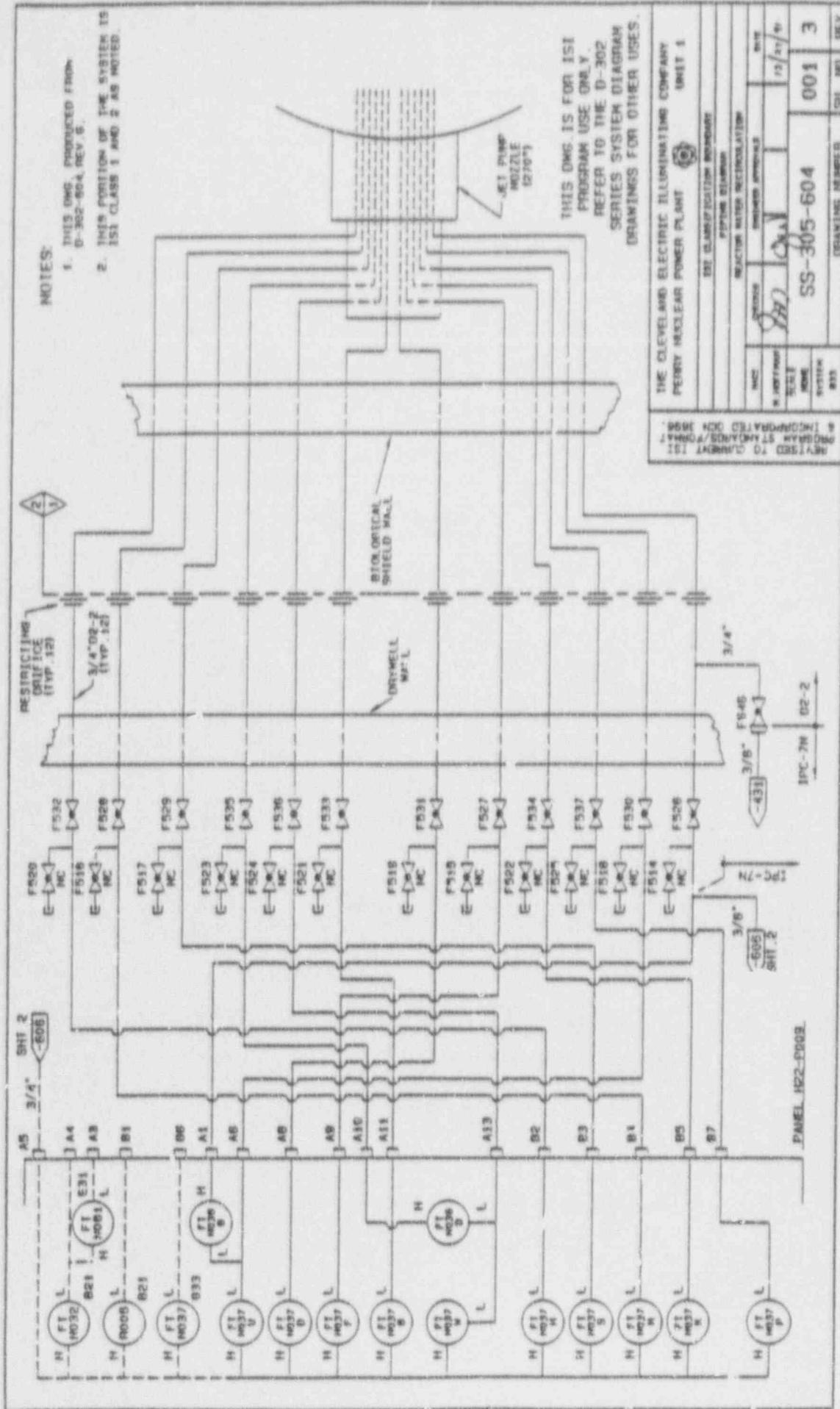
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY MOLENER POWER PLANT UNIT 1

THE CLASSIFICATION SYMBOL  
 PERRY PLANT  
 REACTOR WATER REGULATION

DATE: 12/27/64  
 CHECKED: [Signature]  
 DESIGNED: [Signature]

REVISED TO CURRENT ISEE STANDARDS/FORMAT 9 (INCORPORATED ON 1988)

NO.:	001	REV:	3
DATE:	12/27/64		
SYSTEM:	SS-305-603	DRAWING NUMBER:	
REV:		SPT. NO.:	
REV:		REV:	



NOTES:

1. THIS DWG. PRODUCED FROM D-302-604, REV. 6.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1 AND 2 AS NOTED.

THIS DWG. IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PERRY NUCLEAR POWER PLANT UNIT 1

SEE CLASSIFICATION MEMORANDUM

REACTOR METER REGULATIONS

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: 12/21/60

SS-305-604

001 3

DRAWING NUMBER

UNIT 1

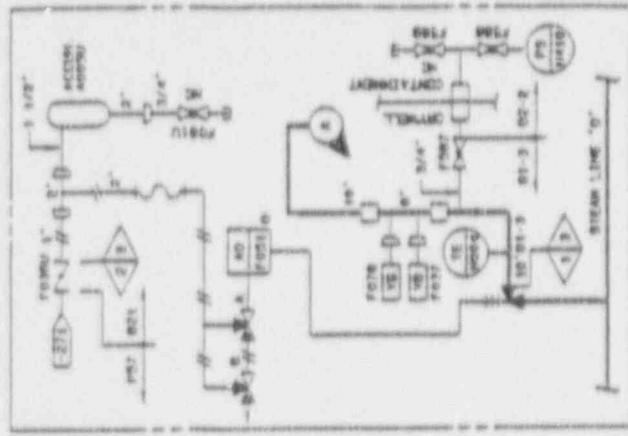
REV.

REV.

REVISED TO CHANGE 121 PROGRAM STAYERS/FORMS & INCORPORATED DCI 1898.

NOTES:

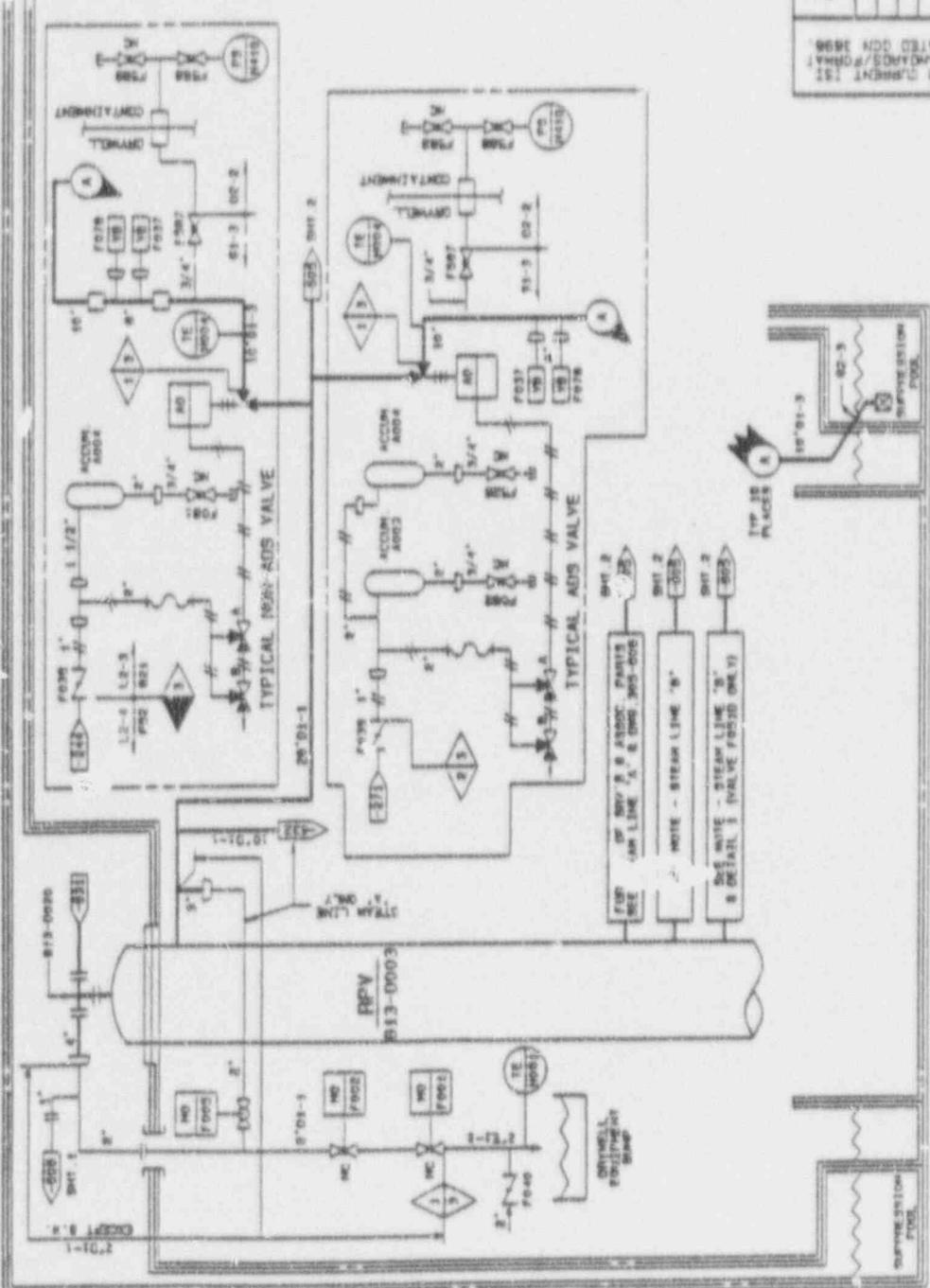
- 1 THIS DRAWING PRODUCED FROM DRAWING D-302-605, REV. W.
- 2 THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1, 2 & 3 BOUNDARIES.



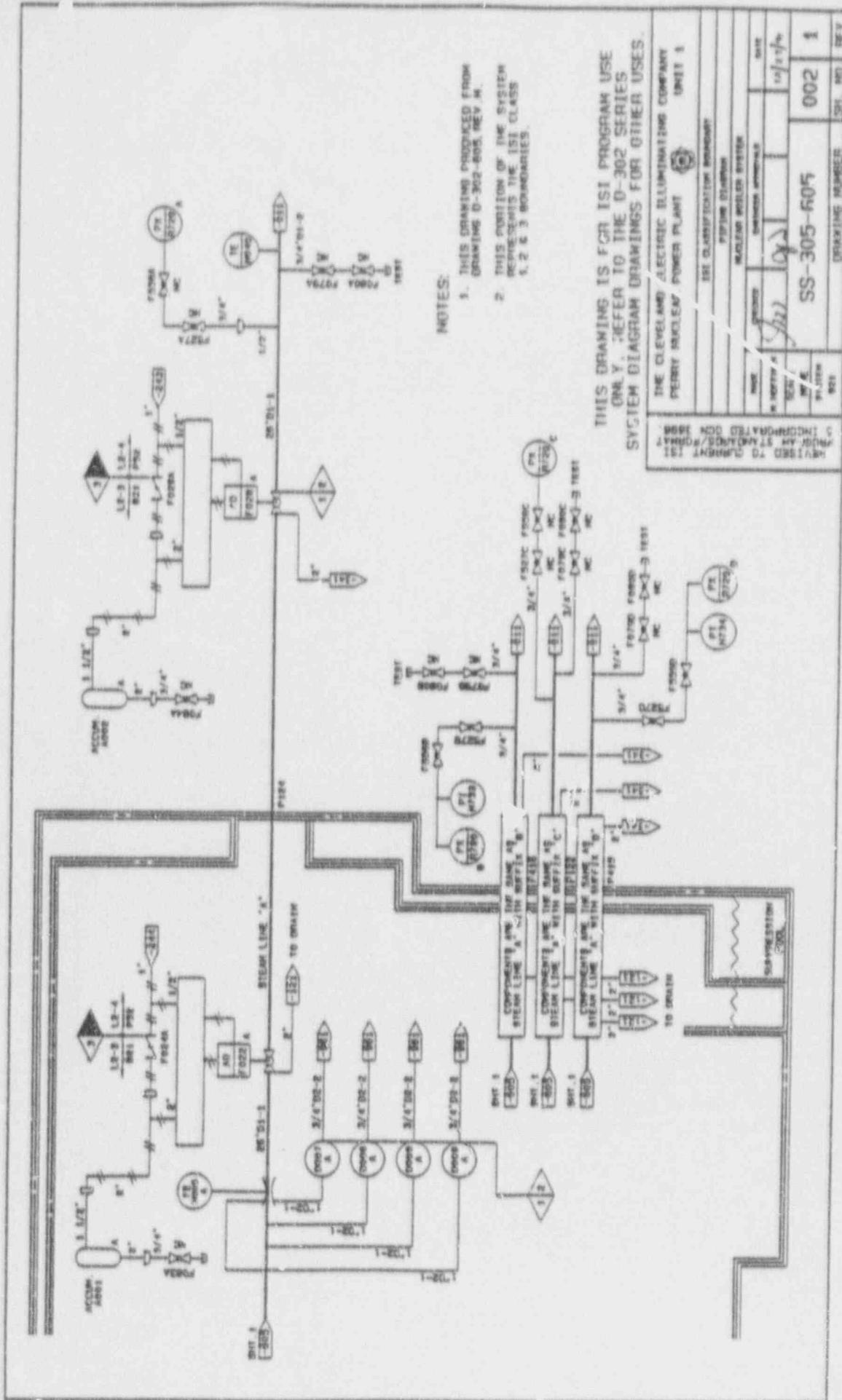
DETAIL - 1"  
FOR VALVE F054D

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
ISI CLASSIFICATION BOUNDARY	
PIPING SYMBOL	
NUCLEAR SYMBOL SYSTEM	
DATE	02/27/68
BY	SS-305-605
NO. IN SET	001
SYSTEM	ISI
NO.	001
DRAWING NUMBER	SS-305-605
SHEET NO.	1
TOTAL SHEETS	1

REVISIONS TO CURRENT LIST  
ISSUED 11/14/65/10/67/11/67  
UNCLASSIFIED ON 10/09/99



THIS DRAWING IS FOR ISI PROGRAM USE  
ONLY. REFER TO THE D-302 SERIES  
SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

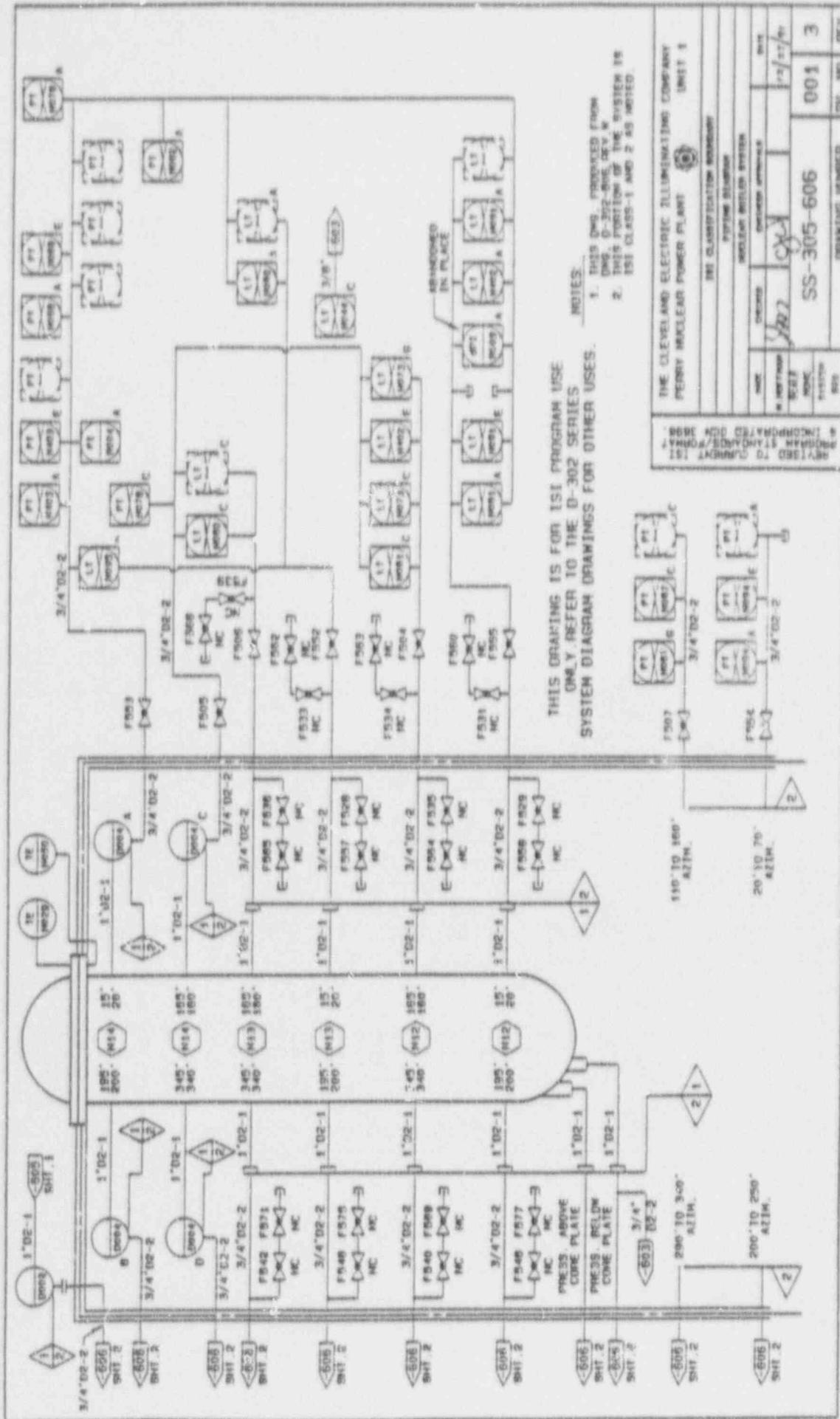


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-805, REV. H.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1, 2 & 3 BOUNDARIES.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

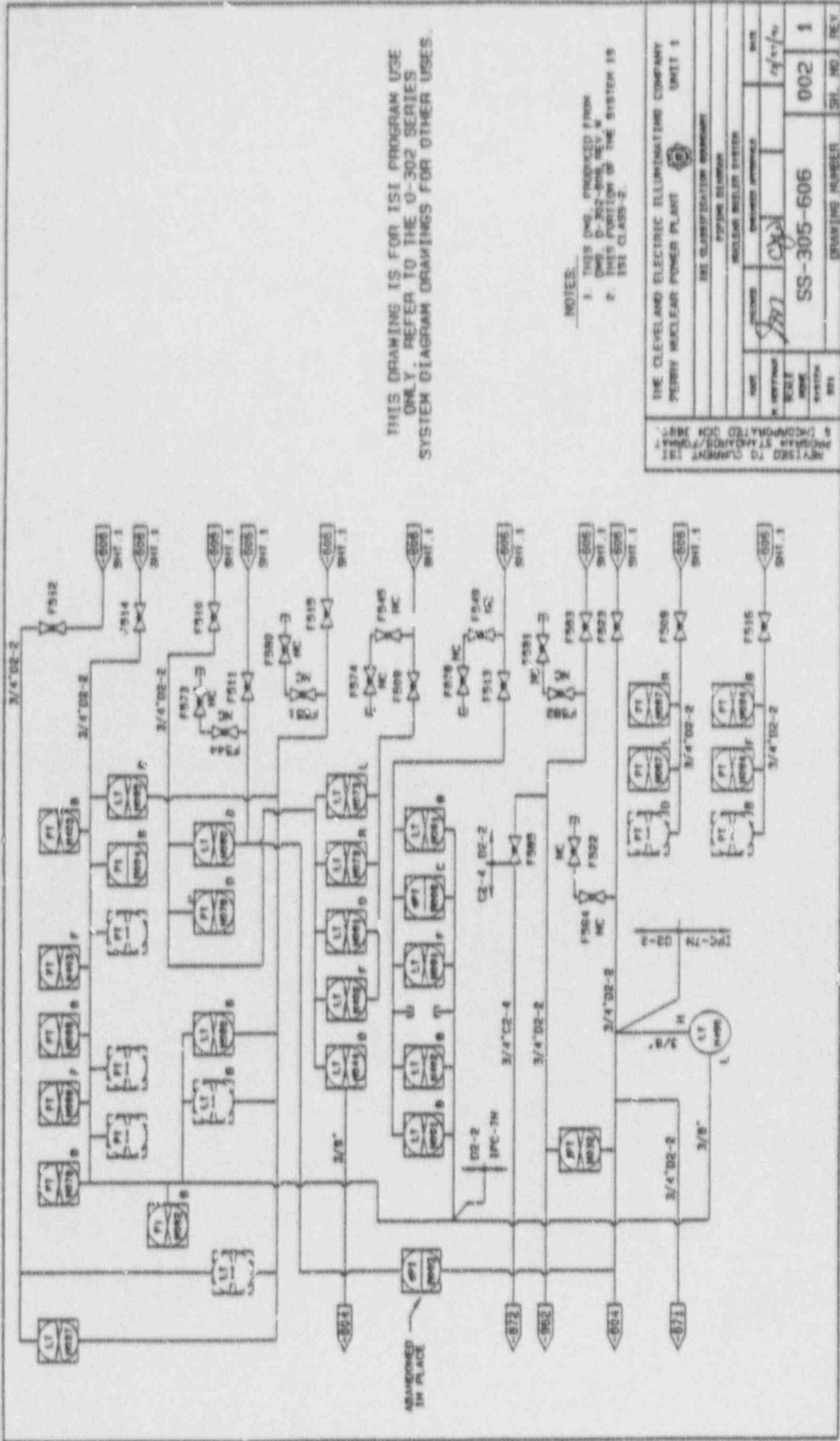
SEE CLASSIFICATION BOUNDARY		DATE	REV.
Piping Diagram		10/1/76	
NUCLEAR WELDED SYSTEM			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT			
UNIT 1			
DRAWING NUMBER		SS-305-605	002
SHEET NO.			1
REV.			



NOTES:  
 1. THIS DMS PROVIDED FROM DMS D-302-REV. 01/87  
 2. THIS PORTION OF THE SYSTEM IS ISI CLASS-1 AND 2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT			
THE CLASSIFICATION BOARD			
SYSTEM DIAGRAM			
NUCLEAR REACTOR SYSTEM			
DATE	REVISED	BY	DATE
12/17/87			
NO. 001	NO. 3	DRAWING NUMBER	
SS-305-606		001	3
REV	NO.	DATE	REV



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

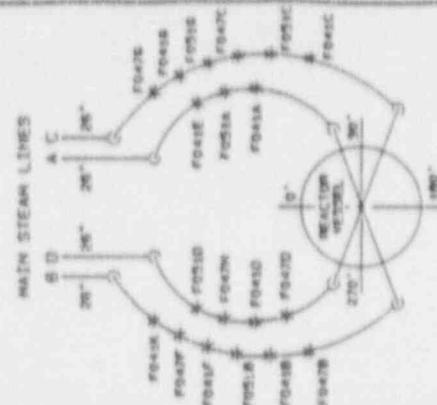
NOTES:  
 1. THIS DWG. PRODUCED FROM DWG. 0-302-400, REV. M  
 2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2.

REVISED TO CORRECT LIST NUMBER 51 AND 52/7/8/9/10		DRAWING NUMBER		SHI. NO.	REV.
NO. 1	DATE	SS-305-606	002	1	
NO. 2	DATE				
NO. 3	DATE				
NO. 4	DATE				
NO. 5	DATE				
NO. 6	DATE				
NO. 7	DATE				
NO. 8	DATE				
NO. 9	DATE				
NO. 10	DATE				
NO. 11	DATE				
NO. 12	DATE				
NO. 13	DATE				
NO. 14	DATE				
NO. 15	DATE				
NO. 16	DATE				
NO. 17	DATE				
NO. 18	DATE				
NO. 19	DATE				
NO. 20	DATE				
NO. 21	DATE				
NO. 22	DATE				
NO. 23	DATE				
NO. 24	DATE				
NO. 25	DATE				
NO. 26	DATE				
NO. 27	DATE				
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THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT UNIT 1  
 SEE CLASSIFICATION SCHEMATIC  
 PIPING SYMBOLS  
 NUCLEAR WELLS SYSTEM

TABLE 1 - SUFFIX LETTER ASSIGNMENT FOR SAFETY RELIEF VALVES AND ASSOCIATED EQUIPMENT

	FO41A	FO41B	FO41C	FO41D	FO41E	FO41F	FO41G	FO41H	FO41I	FO41J	FO41K	FO41L	FO41M	FO41N	FO41O	FO41P	FO41Q	FO41R	FO41S	FO41T	FO41U	FO41V	FO41W	FO41X	FO41Y	FO41Z
SAFETY/RELIEF VALVE	S	C	L	J	U	A	B	E	D	M	K	L	N	P	R	S	T	B	M	G	P					
FLEXIBLE HOSE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	B	M	G	P					
TEMPERATURE ELEMENT	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	B	M	G	P					
ACCUMULATOR	A	B	-	-	E	F	-	-	-	-	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CHECK VALVE	-	-	C	D	-	F	-	H	J	K	-	L	-	-	-	-	-	-	-	-	-	-	-	-	-	
VACUUM BREAK	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	B	M	G	P					
SRV DISCHARGE PRESS SWITCH	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	B	M	G	P					
DRAIN VALVE	A	B	-	-	E	F	-	-	-	-	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HW COMPUTER INPUT	EC025	EC026	EC027	EC028	EC029	EC030	EC031	EC032	EC033	EC034	EC035	EC036	EC037	EC038	EC039	EC040	EC041	EC042	EC043							
SPRING SET PRESSURE (PSIG)	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	
RELIEF SET PRESSURE (PSIG)	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	
PRESS INITIATION SWITCH	MS68	MS69	MS70	MS18	MS17																					
LOW LOW SET REOPEN PRESS. (PSIG)	EC021	EC022	EC023	EC024	EC025	EC026	EC027	EC028	EC029	EC030	EC031	EC032	EC033	EC034	EC035	EC036	EC037	EC038	EC039	EC040	EC041	EC042	EC043	EC044	EC045	
ERIS SRV INITIATION (INPUT FROM COMPUTER)																										



SAFETY/RELIEF VALVE ORIENTATION AND STEAM PIPING LINE SIZES

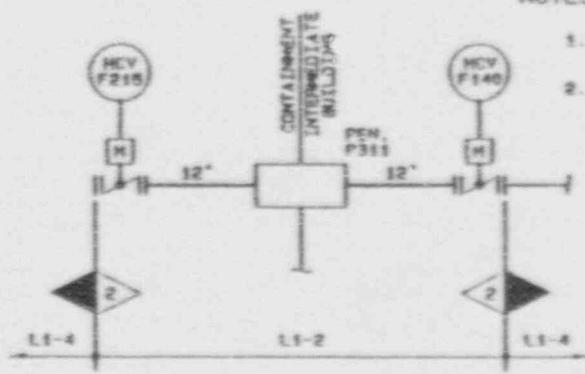
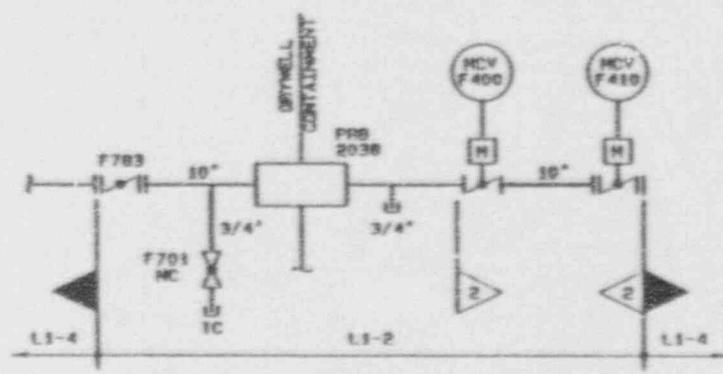
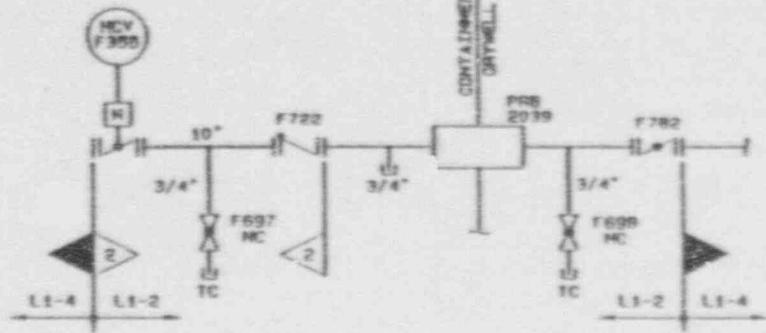
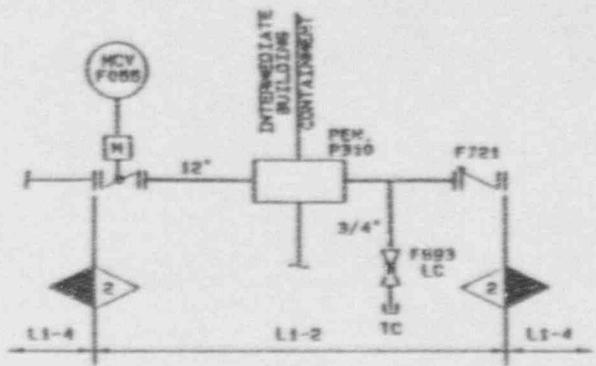
NOTES:  
 1. THIS Dwg PRODUCED FROM DMG D-302-608, REV. K.  
 2. ENTIRE SYSTEM IS ISI CLASS-1.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
 PERRY NUCLEAR POWER PLANT

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

SS-305-608 001 2

DRAWING NUMBER SH NG REV

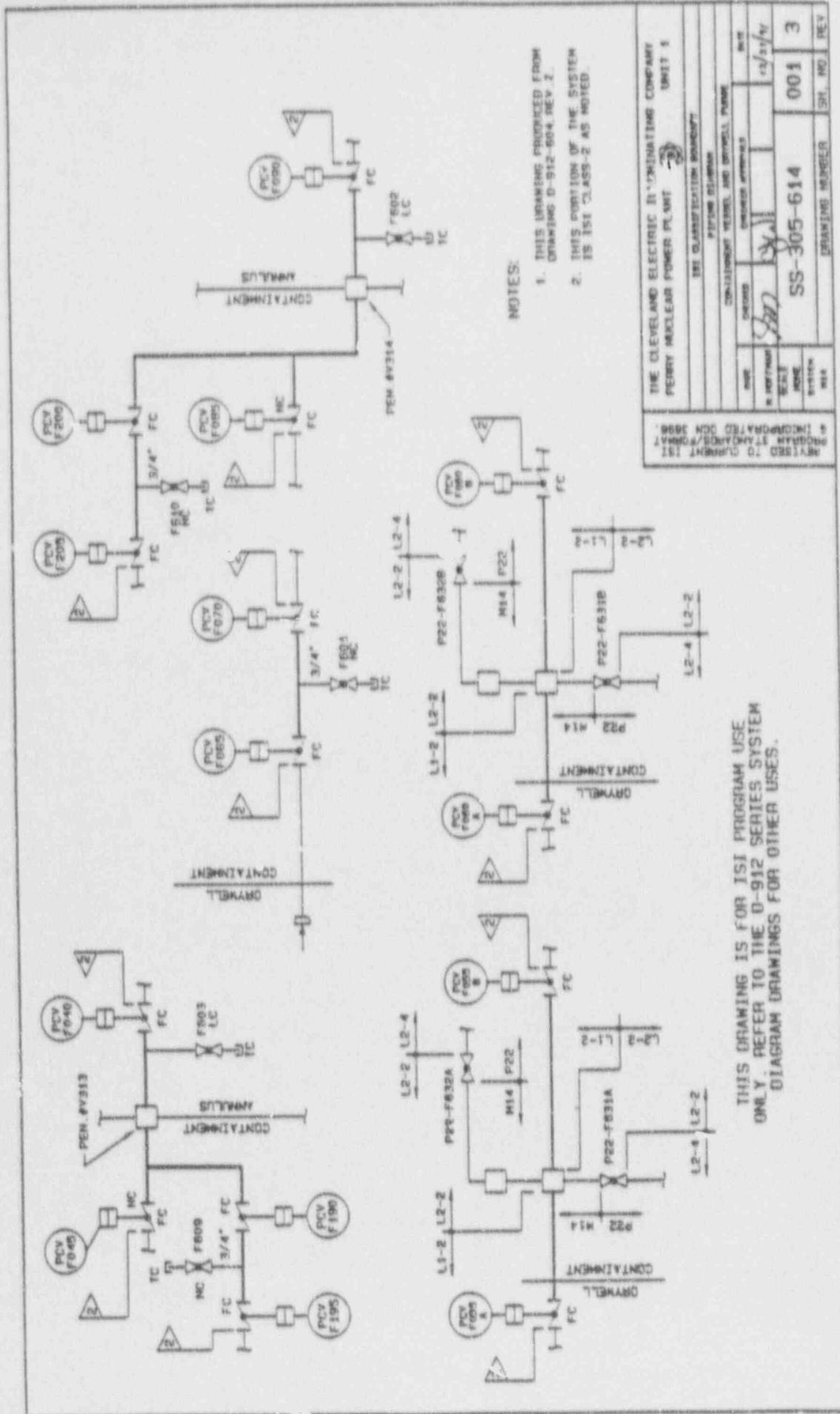


NOTES:

1. THIS DWG. PRODUCED FROM DWG. D-302-613, REV. R.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

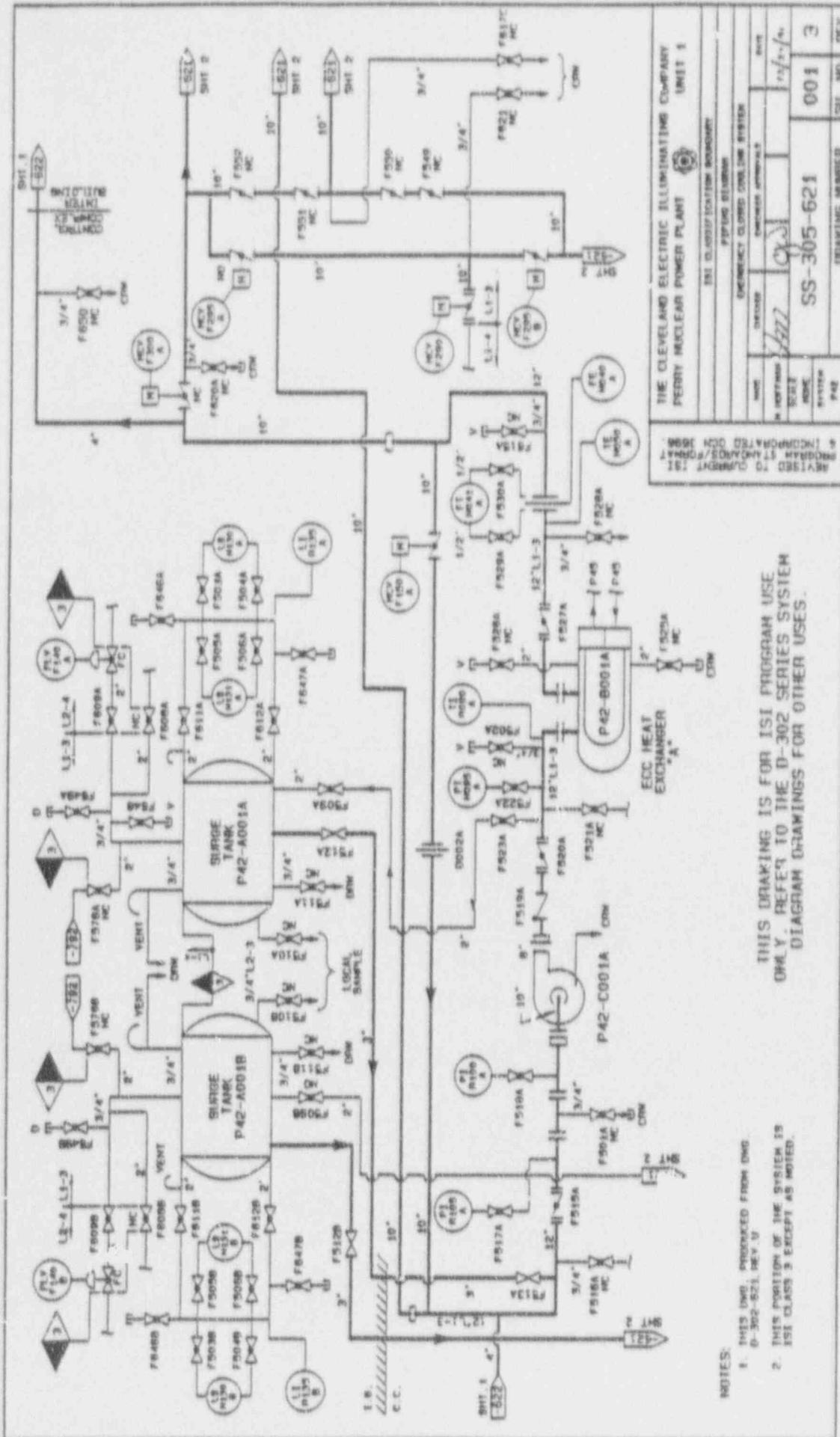
REVISED TO CURRENT ISI PROGRAM STANDARDS/SHAW & INCORPORATED JCN 3898.	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1		
	THE CLASSIFICATION BOUNDARY		
	PIPELINE BOUNDARY		
	NUCLEAR CLOSED COOLING SYSTEM		
	NAME SCALE NUMBER SYSTEM P&ID	CHECKED DESIGNED APPROVALS DATE 10/21/90	SS-305-613 C01 3
DRAWING NUMBER		SH. NO. & REV.	



NOTES:  
 1. THIS DRAWING PRODUCED FROM DRAWING D-912-804, REV. 2.  
 2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 AS NOTED.

THE CLEVELAND ELECTRIC ENGINEERING COMPANY FERRY NUCLEAR POWER PLANT UNIT 1	
SEE CLASSIFICATION SCHEMATIC	
PROJECT NO. 1000	
DESIGNED BY	12/21/64
CHECKED BY	
SCALE	
NO. OF SHEETS	001
TOTAL NO. OF SHEETS	3
DRAWING NUMBER	SS-305-614
SHEET NO.	REV

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-912 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



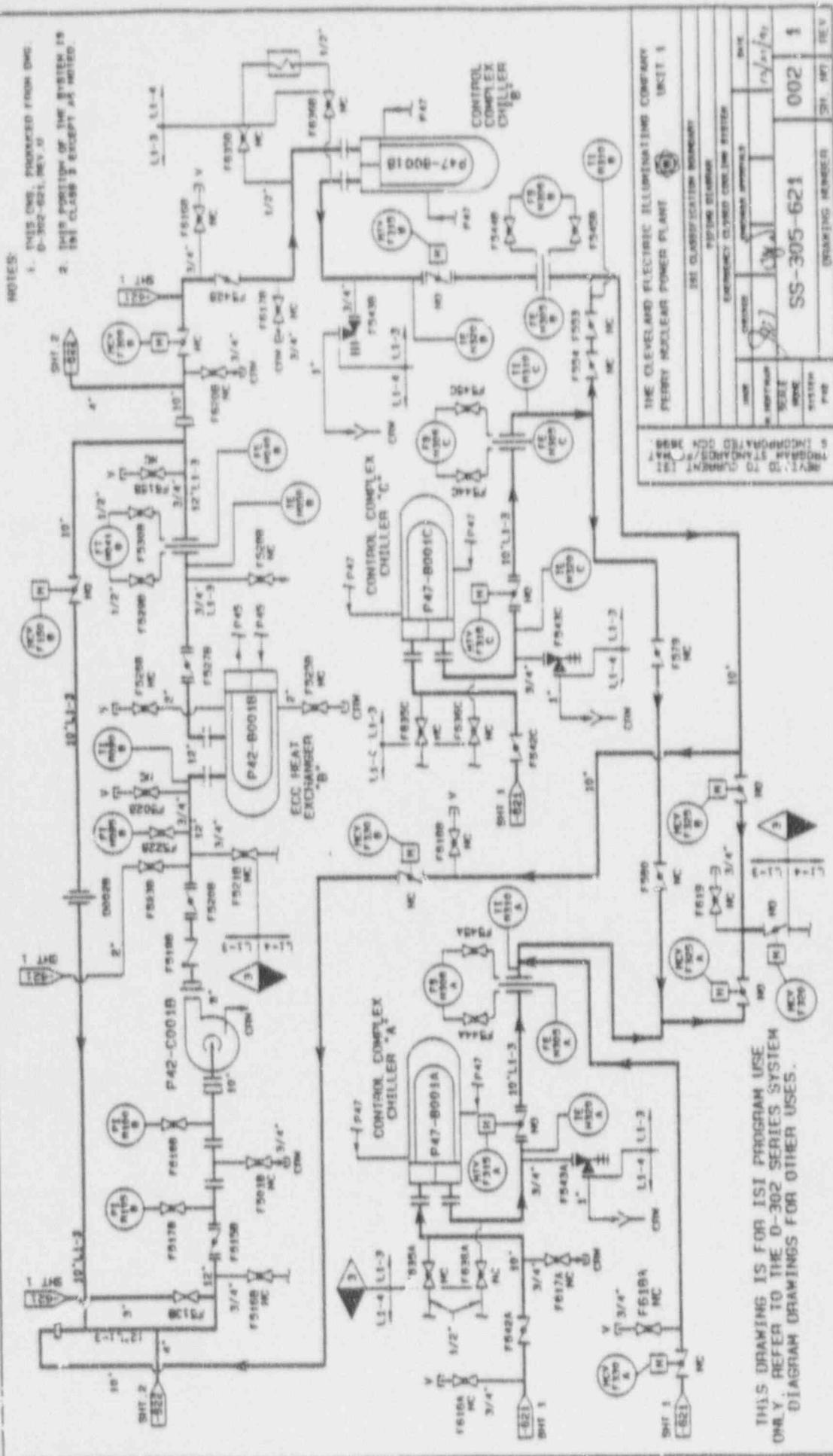
- NOTES:
- THIS DWG. PRODUCED FROM DWG. D-302-621, REV. U.
  - THIS PORTION OF THE SYSTEM IS ISI CLASS 3 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 5	
PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION BOARD			
PIPING SYSTEM			
DATE	DESIGNED	CHECKED	APPROVED
12/21/60	[Signature]	[Signature]	[Signature]
ISSUE	NO.	DATE	BY
001	3		
DRAWING NUMBER		SIT. NO.	
SS-305-621		001 3	
PAGE		REV.	
4		1	

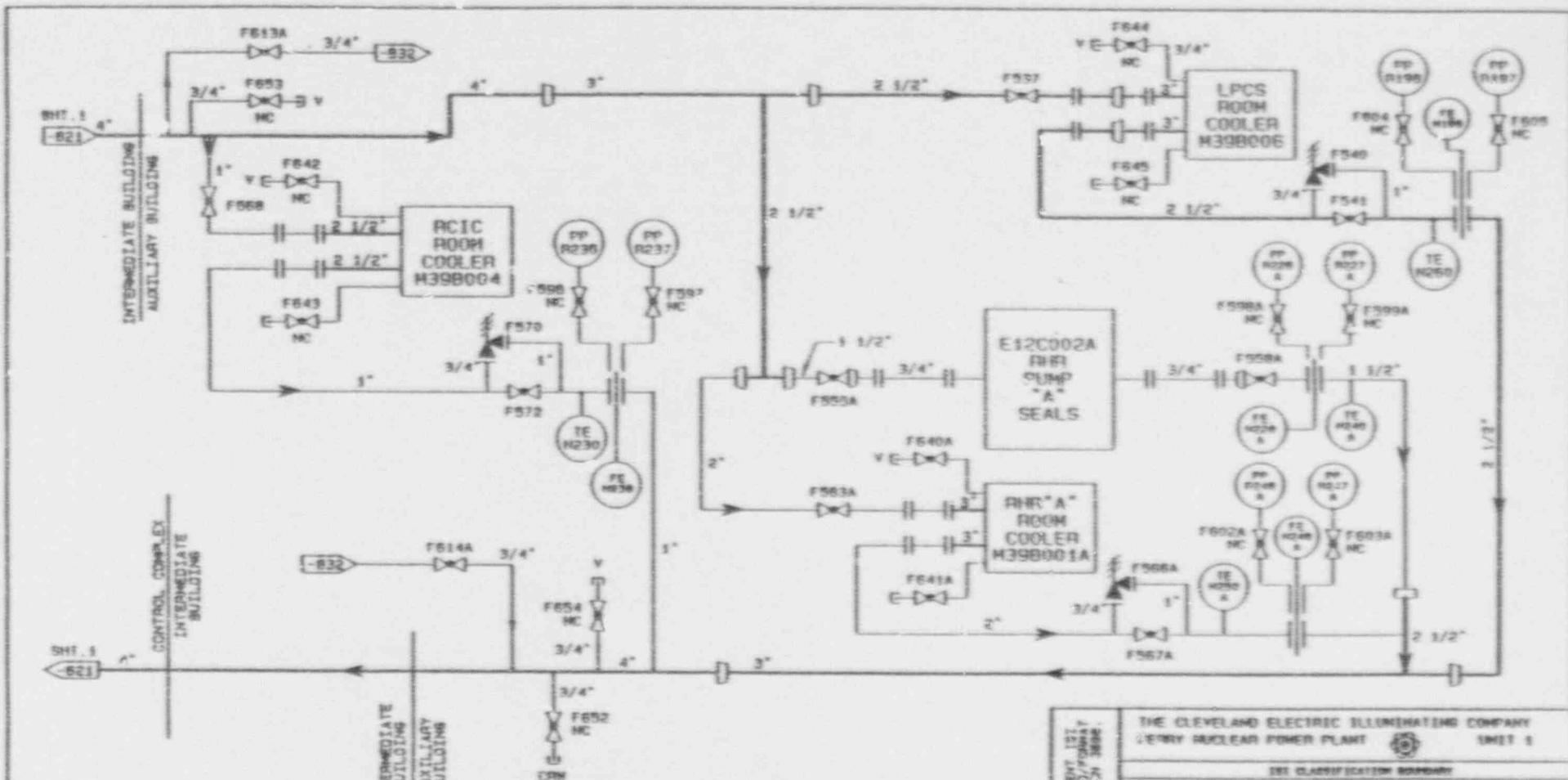
NOTES:

1. THIS CME, PAKKED FROM DMC, D-302-621, REV. 0
2. THIS PORTION OF THE SYSTEM IS IN CLASS B EXCEPT AS NOTED.



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		002	
DRAWING NUMBER		SS-305-621	
REV. NO.		1	
DATE		12/1/53	
DESIGNED BY		S. J. ...	
CHECKED BY		...	
APPROVED BY		...	
SYSTEM BOUNDARY		...	
EMERGENCY CLOSED CIRCUIT SYSTEM		...	
THIS CLASSIFICATION BOUNDARY		...	



NOTES:

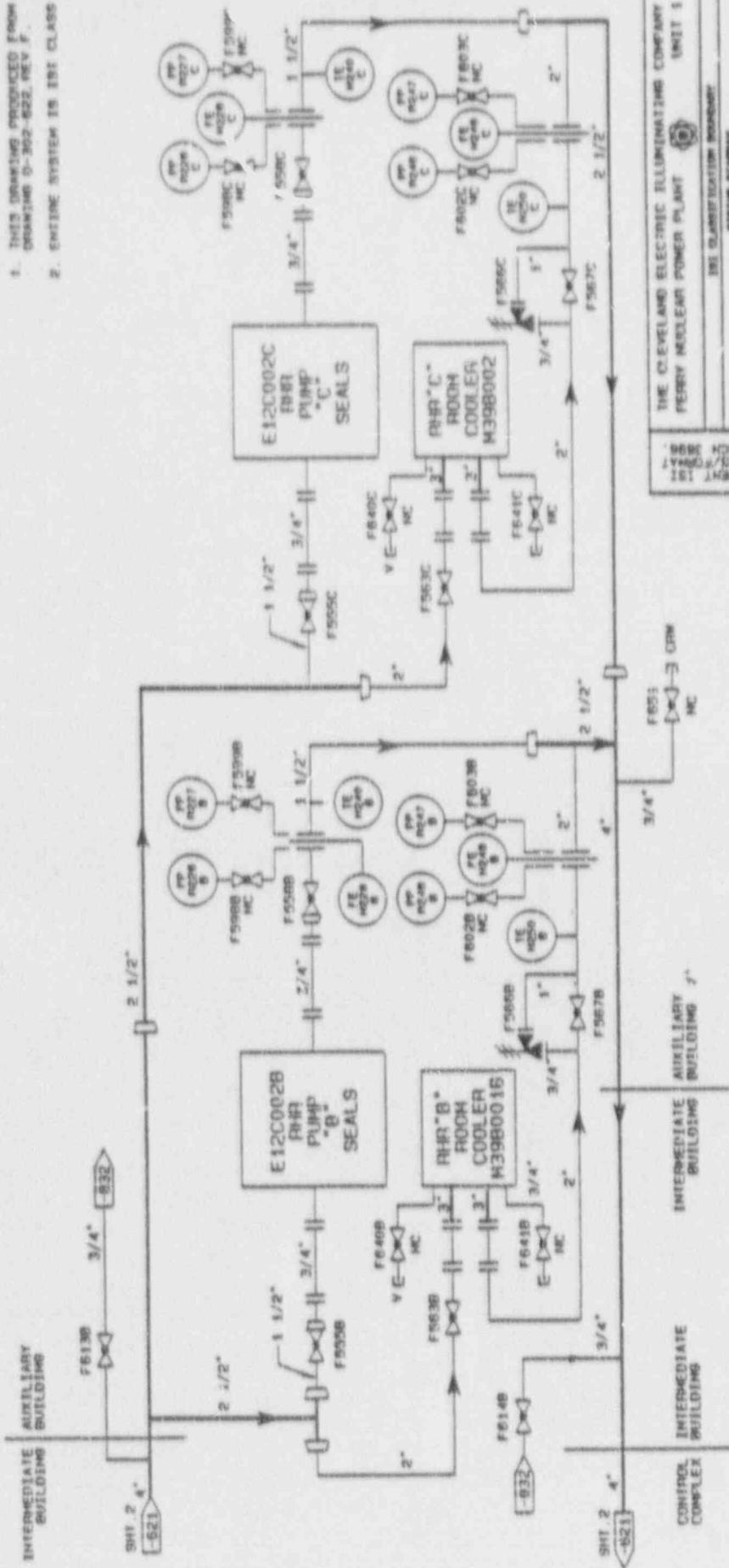
1. THIS DRAWING PRODUCED FROM DRAWING D-302-622, REV. F.
2. ENTIRE SYSTEM IS ISI CLASS 3.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISIONS: 1. 12/21/78 2. 12/21/78 3. 12/21/78 4. 12/21/78 5. 12/21/78 6. 12/21/78 7. 12/21/78 8. 12/21/78 9. 12/21/78 10. 12/21/78 11. 12/21/78 12. 12/21/78 13. 12/21/78 14. 12/21/78 15. 12/21/78 16. 12/21/78 17. 12/21/78 18. 12/21/78 19. 12/21/78 20. 12/21/78 21. 12/21/78 22. 12/21/78 23. 12/21/78 24. 12/21/78 25. 12/21/78 26. 12/21/78 27. 12/21/78 28. 12/21/78 29. 12/21/78 30. 12/21/78 31. 12/21/78 32. 12/21/78 33. 12/21/78 34. 12/21/78 35. 12/21/78 36. 12/21/78 37. 12/21/78 38. 12/21/78 39. 12/21/78 40. 12/21/78 41. 12/21/78 42. 12/21/78 43. 12/21/78 44. 12/21/78 45. 12/21/78 46. 12/21/78 47. 12/21/78 48. 12/21/78 49. 12/21/78 50. 12/21/78 51. 12/21/78 52. 12/21/78 53. 12/21/78 54. 12/21/78 55. 12/21/78 56. 12/21/78 57. 12/21/78 58. 12/21/78 59. 12/21/78 60. 12/21/78 61. 12/21/78 62. 12/21/78 63. 12/21/78 64. 12/21/78 65. 12/21/78 66. 12/21/78 67. 12/21/78 68. 12/21/78 69. 12/21/78 70. 12/21/78 71. 12/21/78 72. 12/21/78 73. 12/21/78 74. 12/21/78 75. 12/21/78 76. 12/21/78 77. 12/21/78 78. 12/21/78 79. 12/21/78 80. 12/21/78 81. 12/21/78 82. 12/21/78 83. 12/21/78 84. 12/21/78 85. 12/21/78 86. 12/21/78 87. 12/21/78 88. 12/21/78 89. 12/21/78 90. 12/21/78 91. 12/21/78 92. 12/21/78 93. 12/21/78 94. 12/21/78 95. 12/21/78 96. 12/21/78 97. 12/21/78 98. 12/21/78 99. 12/21/78 100. 12/21/78	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY WENDY NUCLEAR POWER PLANT			
	SHEET 1			
	ISI CLASSIFICATION BOUNDARY			
	PIPING DRAWING			
	EMERGENCY CLOSED COOLING SYSTEM			
NO.	CHECKED	DESIGNED APPROVED	DATE	
1	[Signature]	[Signature]	12/21/78	
SS-305-622			001 3	
DRAWING NUMBER			SH. NO. REV.	

NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-622, REV. F.
2. ENGINE SYSTEM IS ISI CLASS 3



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
 FERRY NUCLEAR POWER PLANT

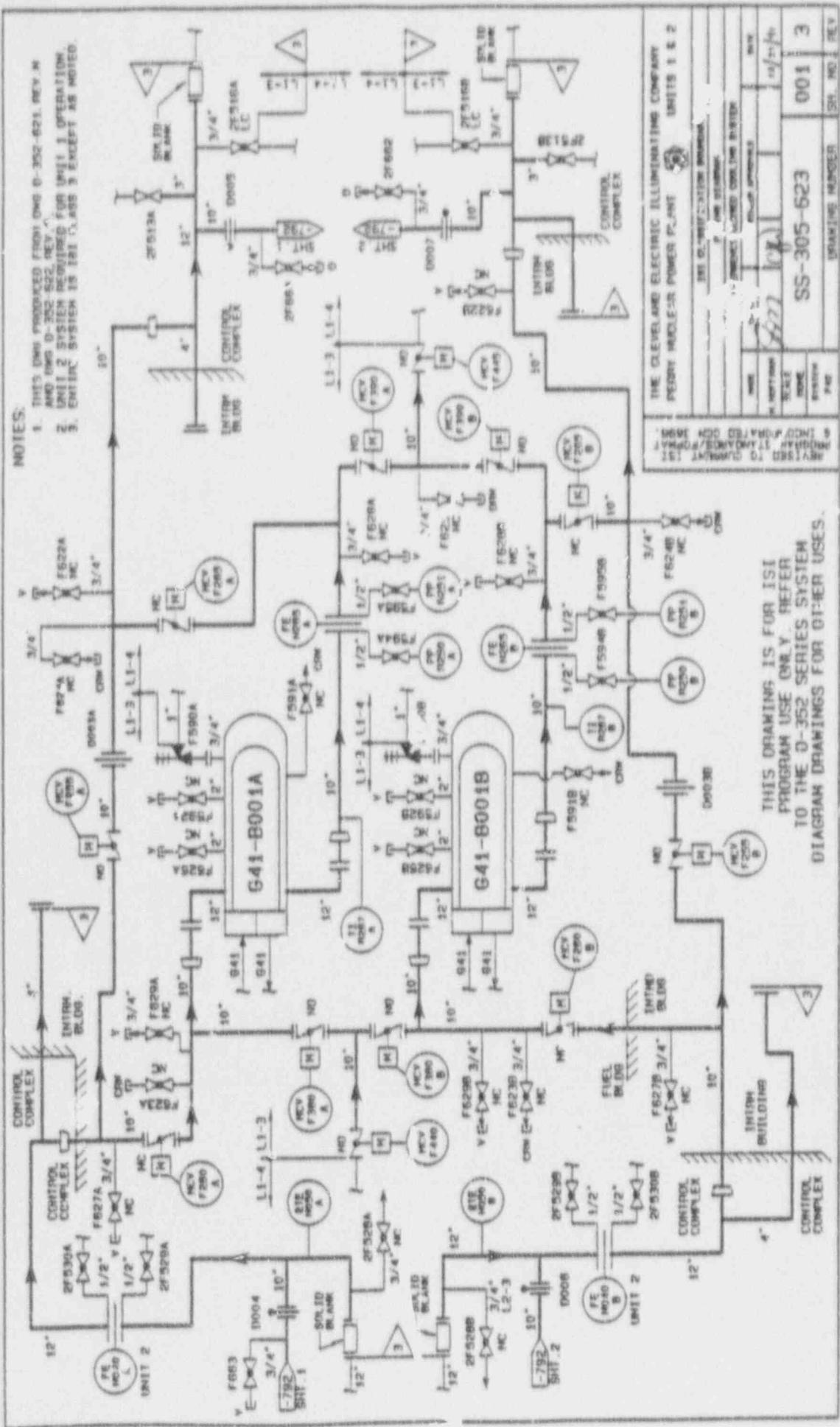
THE CLASSIFICATION BOUNDARY SYSTEM BOUNDARY

REVISIONS TO CURRENT LIST  
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 REVISIONS TO CURRENT LIST

NO.	DATE	BY	CHKD.	REASON
1	11/21/60			

DRINKING NUMBER: SS-305-622  
 SHEET NO.: 002  
 REV.: 1

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



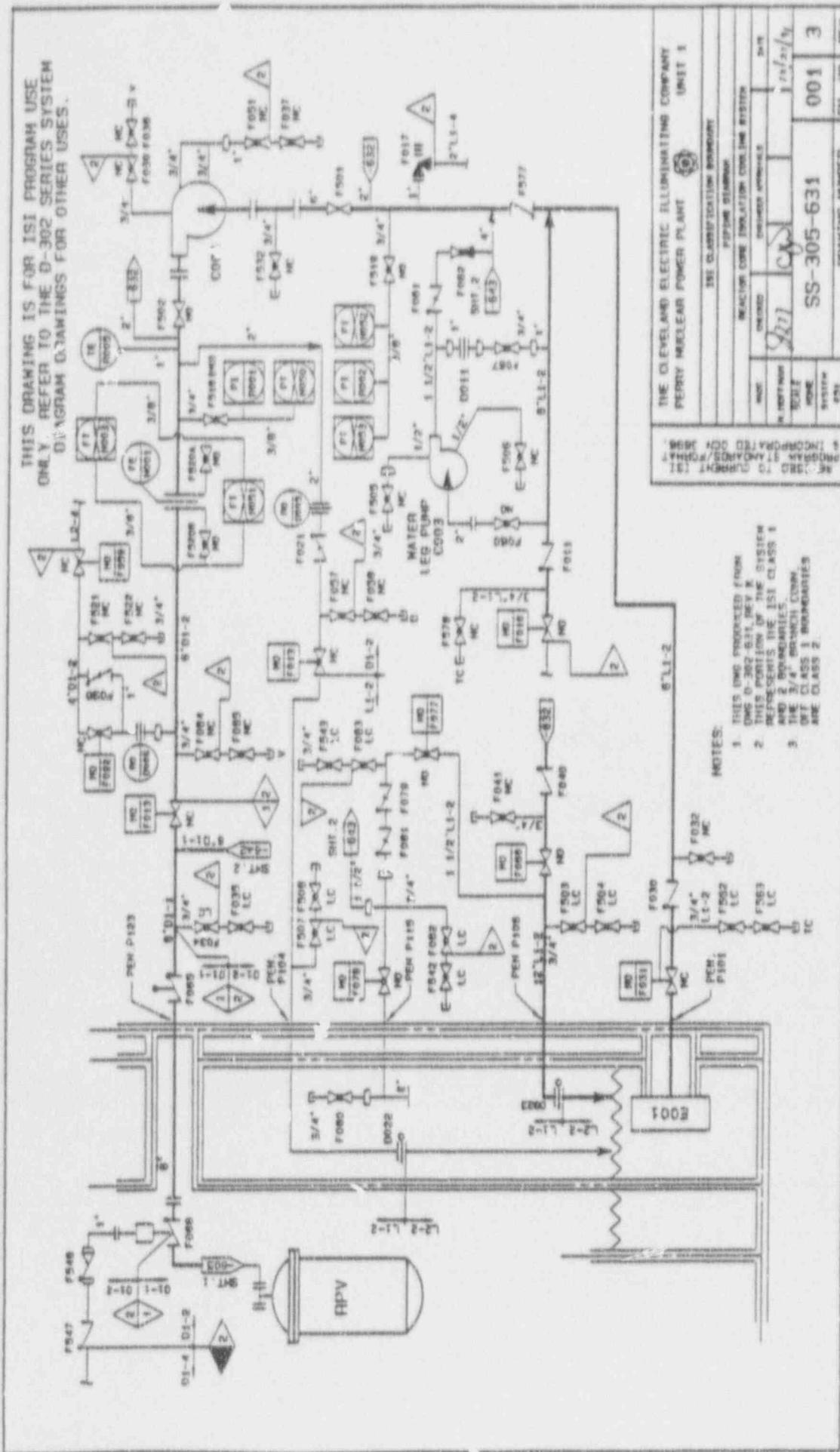
NOTES:

1. THIS DWG PRODUCED FROM DWG 0-352-621, REV. M AND DWG 0-352-622, REV. Y.
2. UNIT 2 SYSTEM REQUIRED FOR UNIT 1 OPERATION.
3. ENTIN SYSTEM IS 181 CLASS 3 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-352 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR POWER PLANT	
UNITS 1 & 2	
SEE 0-352-621 FOR DIMENSIONS	
PROJECT: 181 CLASS 3	
DATE	10/27/60
SCALE	AS SHOWN
SYMBOL	001
SYSTEM	3
DWG. NO.	SS-305-623
DRAWING NUMBER	
SH. NO.	
REV.	

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



- NOTES:
1. THIS Dwg PRODUCED FROM DWS D-302-611, REV. K.
  2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1 AND 2 BOUNDARIES.
  3. THE 3/4" BRANCH COOL. OFF CLASS 1 BOUNDARIES ARE CLASS 2.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
 PERRY NUCLEAR POWER PLANT

THE CLASSIFICATION ABBREVIATION  
 PIPING SYMBOL

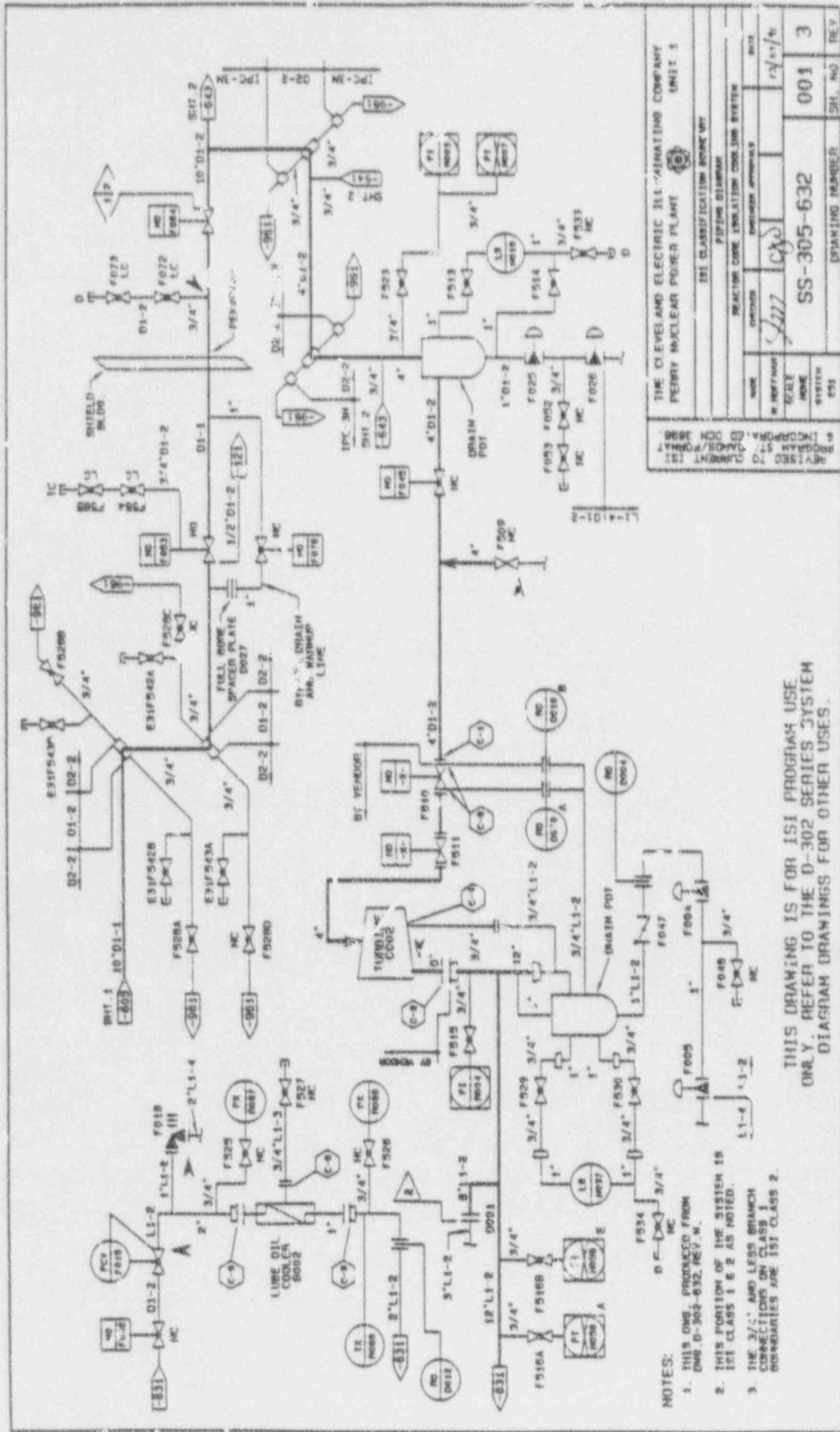
REACTOR CORE ISOLATION COOLING SYSTEM

DATE: 1/12/64

SS-305-631

DRAWING NUMBER: 001 3

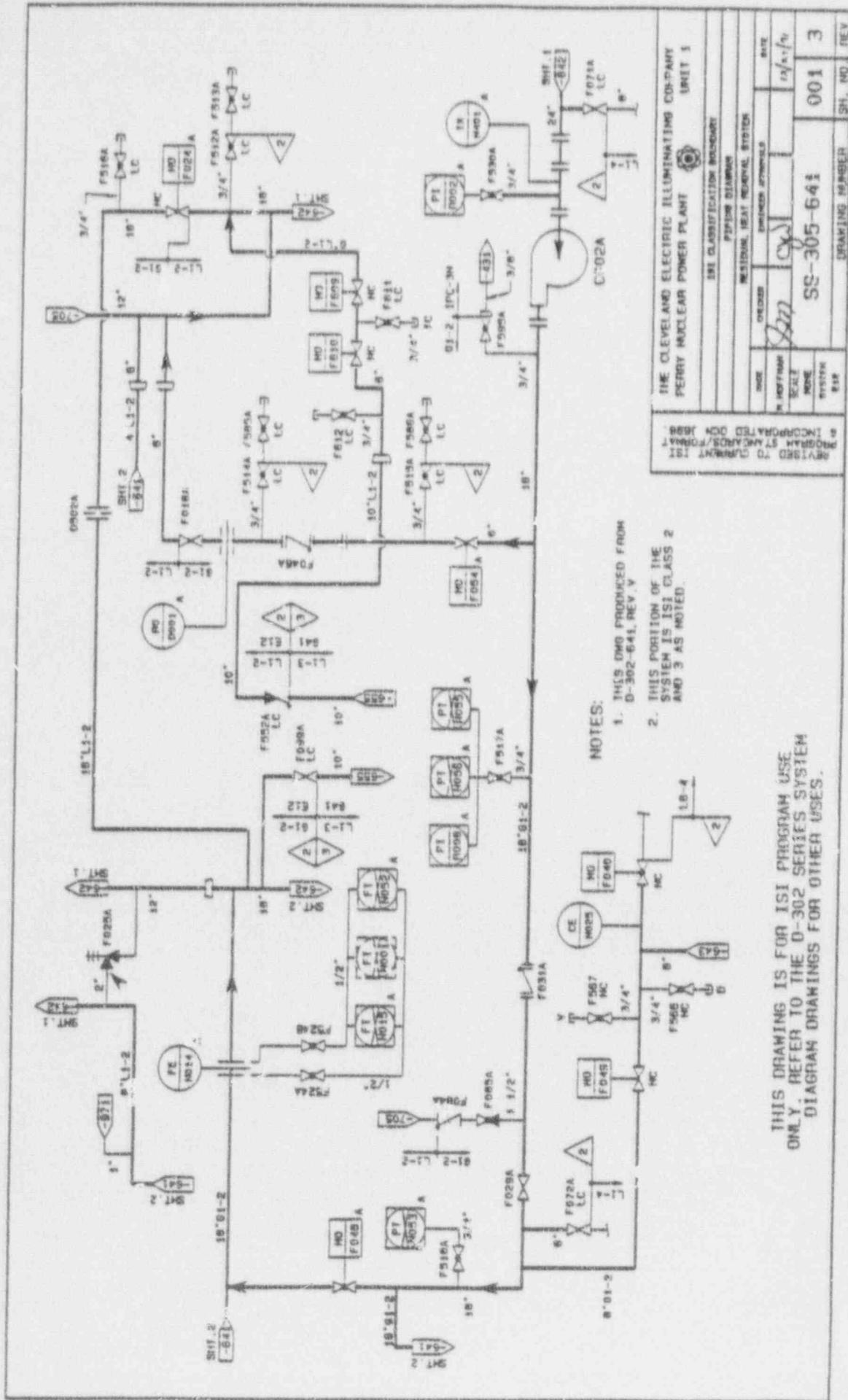
REV: 3



THE CLEVELAND ELECTRIC ENGINEERING COMPANY	
PEERY NUCLEAR POWER PLANT UNIT 1	
IS1 CLASSIFICATION SCHEMATIC	
REACTOR CORE INSULATION COOLING SYSTEM	
PIPING DIAGRAM	
DATE	02/21/76
SCALE	AS SHOWN
REVISION	001
ISSUE	3
ISSUED BY	SS
ISSUED FOR	SS-305-632
ISSUED BY	SS
ISSUED FOR	SS-305-632
ISSUED BY	SS
ISSUED FOR	SS-305-632

- NOTES:
- THIS DWG. PRODUCED FROM DWS-D-305-632, REV. N.
  - THIS PORTION OF THE SYSTEM IS IS1 CLASS 1 & 2 AS NOTED.
  - THE 3/4" AND LESS BRANCH CORRECTIONS ON CLASS 3 BOUNDARIES ARE IS1 CLASS 2.

THIS DRAWING IS FOR IS1 PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



- NOTES:
1. THIS Dwg PRODUCED FROM D-302-641, REV. Y
  2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	11/1/64
2	REVISIONS	
3	REVISIONS	

THE CLEVELAND ELECTRIC ILLUMINATING CO-PARTY  
PERRY NUCLEAR POWER PLANT UNIT 1

ISSUED FOR CONSTRUCTION  
REVISIONS  
DATE

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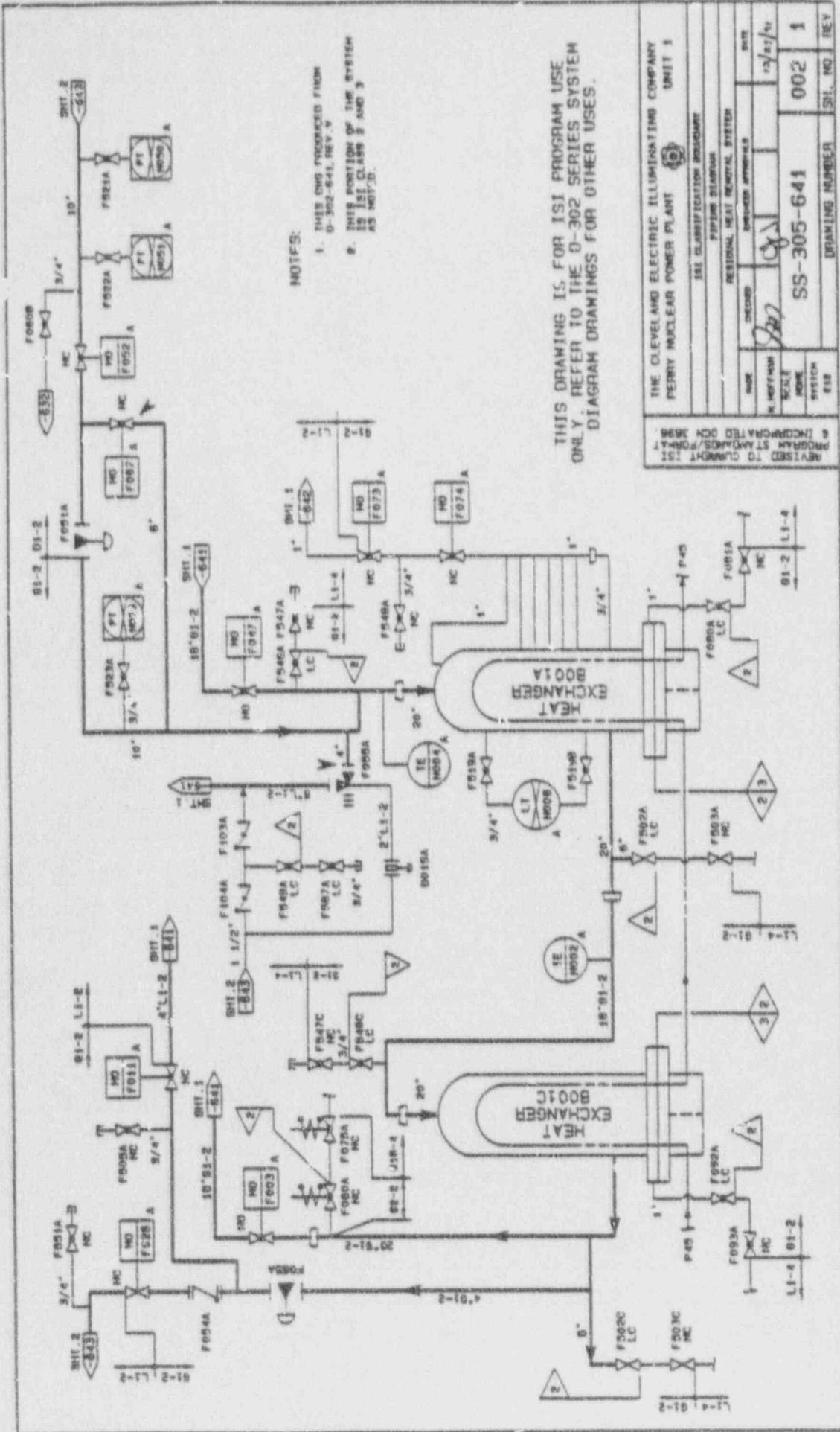
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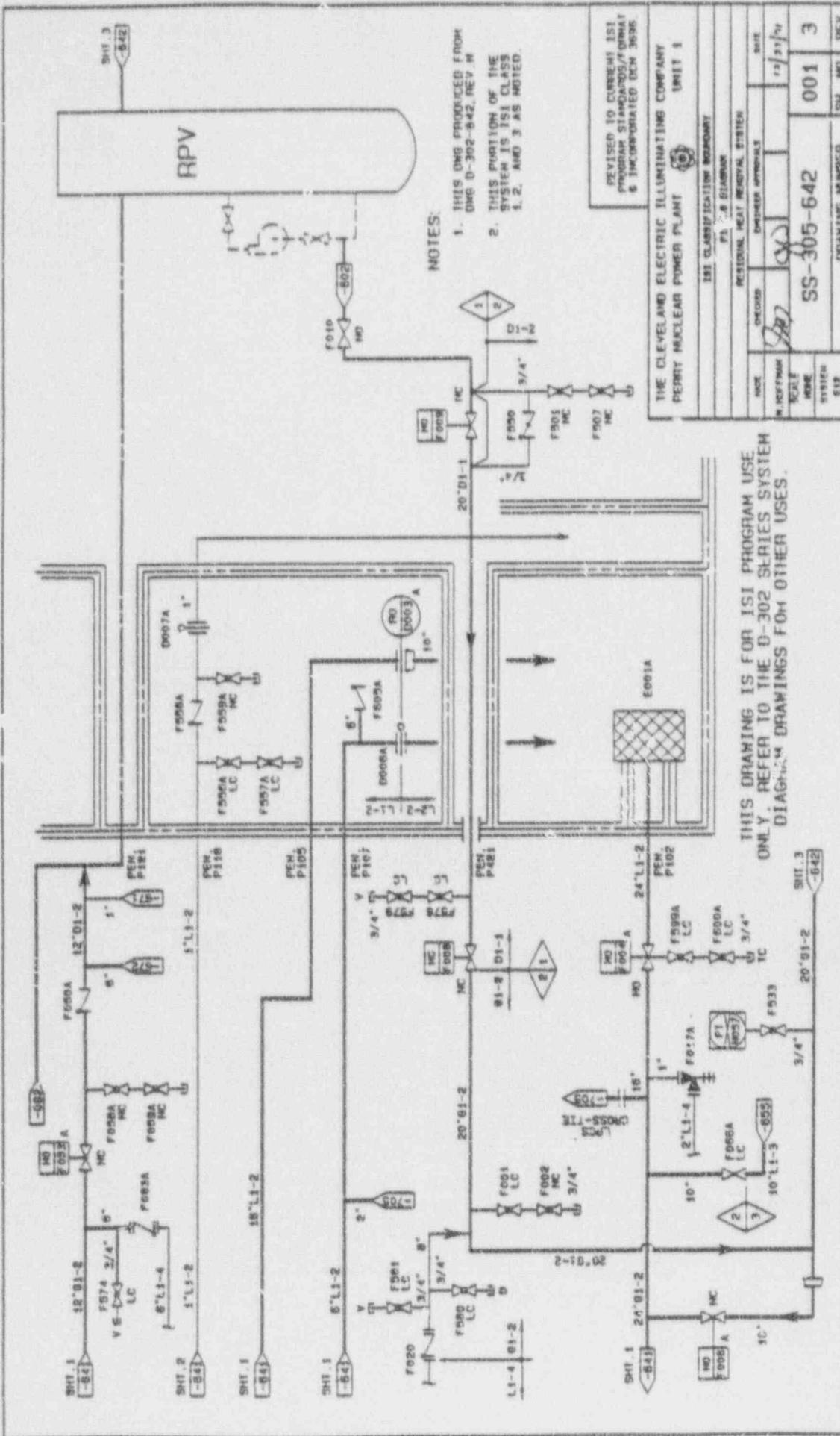


NOTES:

1. THIS Dwg PRODUCED FROM 0-302-641, REV. V
2. THIS PORTION OF THE SYSTEM IS SET CLASS 2 AND 3 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO DRAWING ISI PROGRAM STANDARDS/FORMAT		DATE	
NO.	REASON	DATE	BY
1	ISSUED APPROVALS	12/27/74	
ISSUE CLASSIFICATION DISCUSSANT		DATE	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1			
PERRY NUCLEAR POWER PLANT			
RESIDUAL HEAT REMOVAL SYSTEM			
DRAWING NUMBER		SRI. NO. REV	
SS-305-641		002 1	



NOTES:

1. THIS DWG PRODUCED FROM DWG D-302-842, REV M
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1, 2, AND 3 AS NOTED.

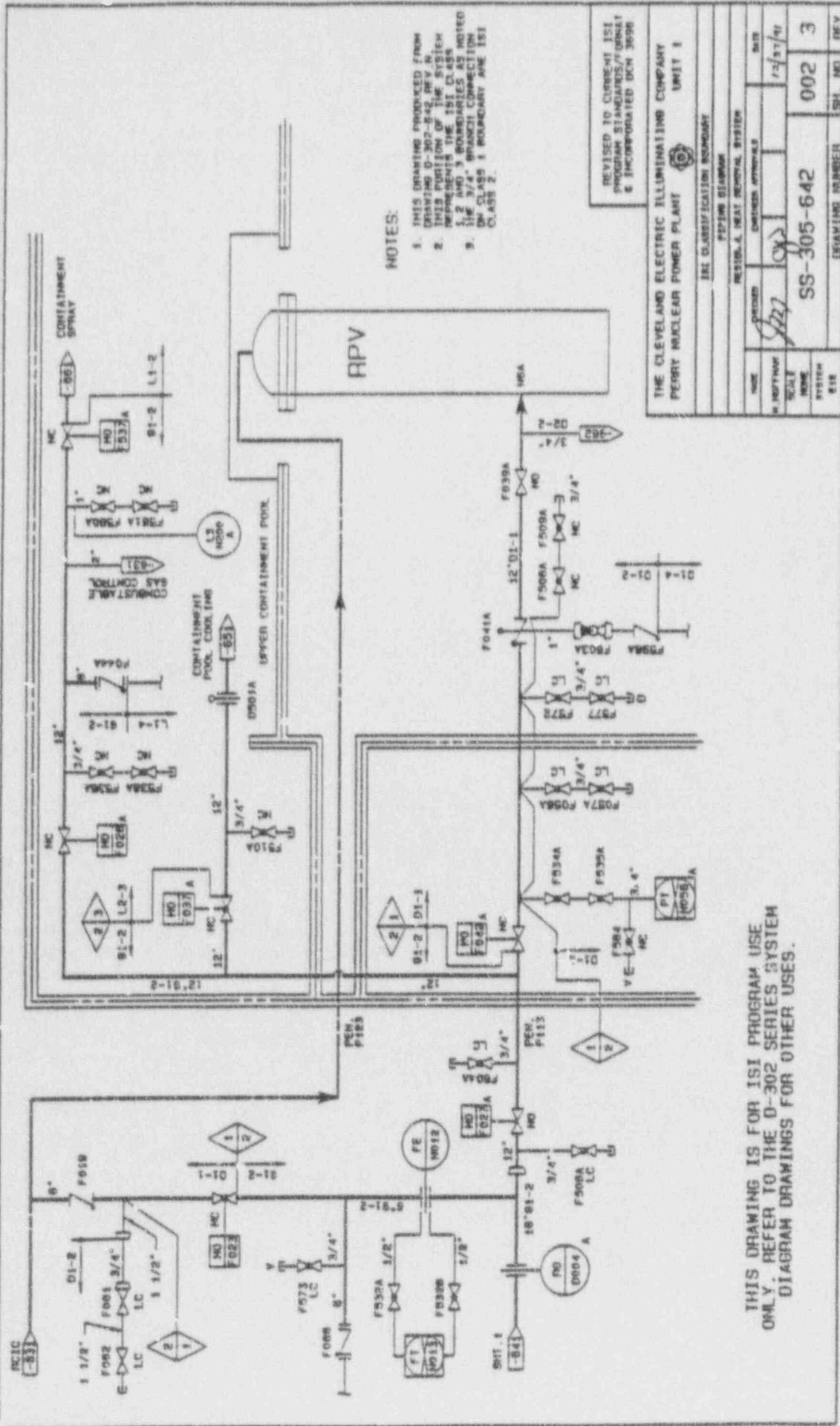
REVISED TO CURRENT ISI PROGRAM STANDARDS/FINLAY & INCORPORATED DCN 3636

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1  
PERRY NUCLEAR POWER PLANT

ISI CLASSIFICATION SYMBOL

DATE	12/21/74
DESIGNED BY	
CHECKED BY	
IN CHARGE	
SCALE	
NO. SYSTEM	001 3
DRAWING NUMBER	SS-305-642
SH. NO.	3
REV.	

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-642 REV 1.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1, 2 AND 3 BOUNDARIES AS NOTED ON THE 3/4\"/>

REVISED TO CURRENT ISI PROCEEDING STANDARDS & INCORPORATED DCN 3096

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1	
PERRY NUCLEAR POWER PLANT	
RESIDUAL HEAT REMOVAL SYSTEM	
DATE	12/27/70
DESIGNED BY	J.P.
CHECKED BY	J.P.
SCALE	
HOME	
POSITION	
REV	
SS-305-642	002
DRAWING NUMBER	3
SHEET NO.	REV

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-392 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DWG PRODUCED FROM DWG D-302-642, REV. M
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1, 2, AND 3 AS NOTED.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCM 36596

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PENNY NUCLEAR POWER PLANT UNIT 3

ISI CLASSIFICATION SUBGROUP

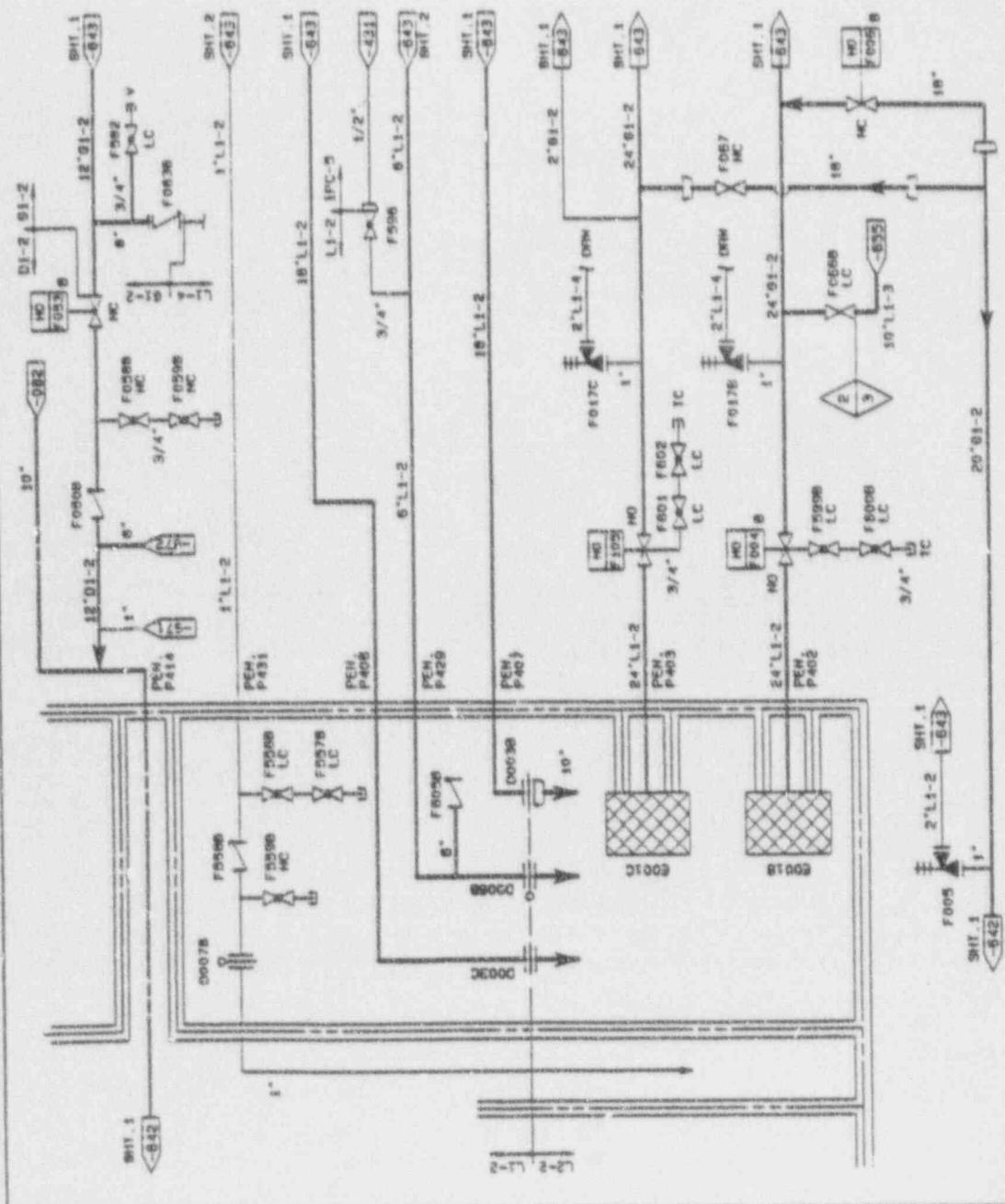
PP/IR P/AN

RESIDUAL HEAT RECOVERY SYSTEM

NO.	ISSUED	APPROVAL	DATE
1			12/27/71

NO.	SS-305-642	SH. NO.	1
SCALE		DRAWING NUMBER	
SYSTEM			
REV.			



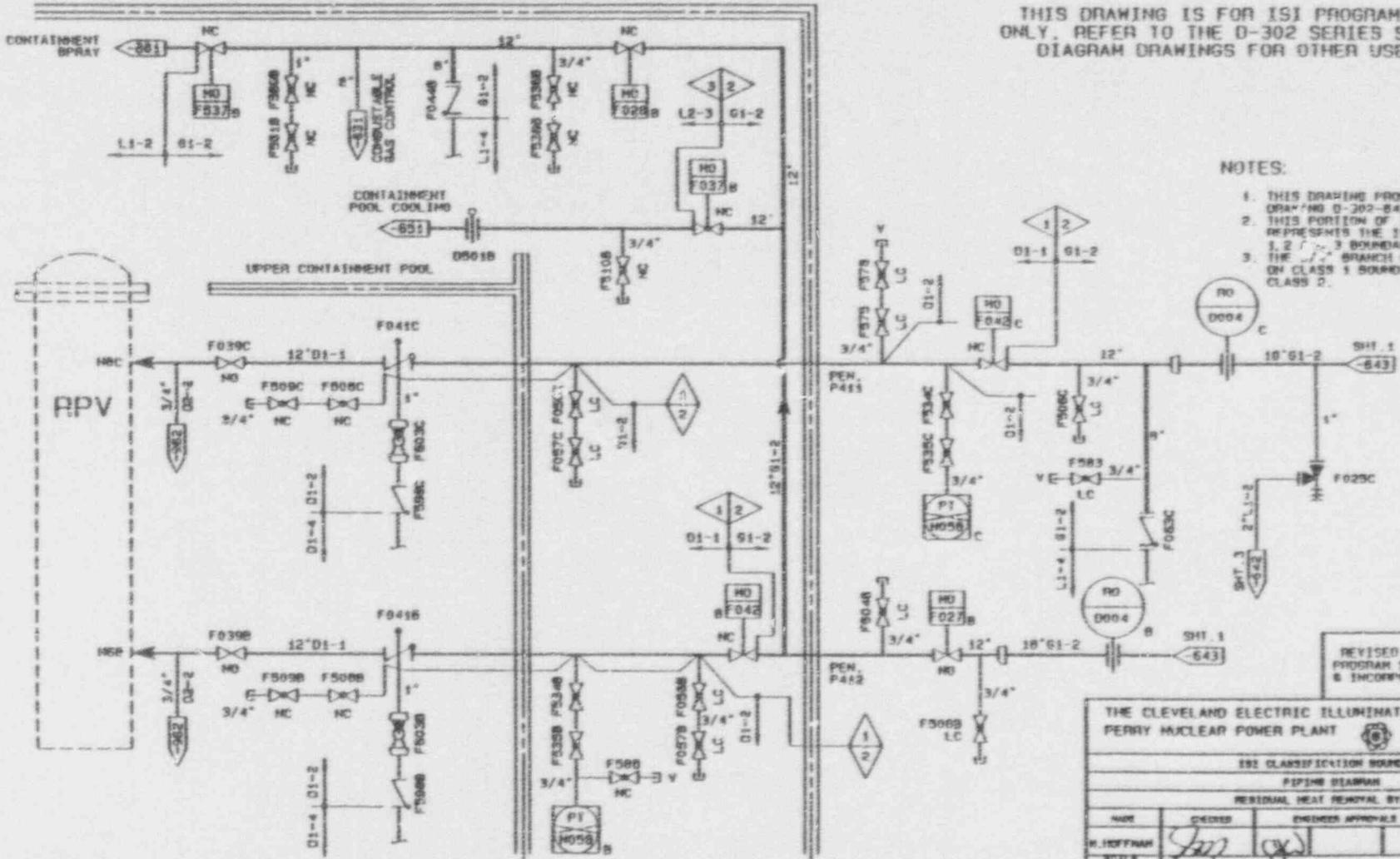
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-202-642, REV. B.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS 1, 2 & 3 BOUNDARIES AS NOTED.
3. THE BRANCH CONNECTION ON CLASS 1 BOUNDARY ARE ISI CLASS D.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCN 3690.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT UNIT 1			
ISI CLASSIFICATION BOUNDARY			
PIPING DIAGRAM			
RESIDUAL HEAT REMOVAL SYSTEM			
NO. CHECKED	ENGINEER APPROVALS	DATE	
H. HOFFMAN	<i>[Signature]</i>	11/11/81	
SCALE NONE	SS-305-642		004 1
SYSTEM EIR	DRAWING NUMBER		SH. NO. REV.

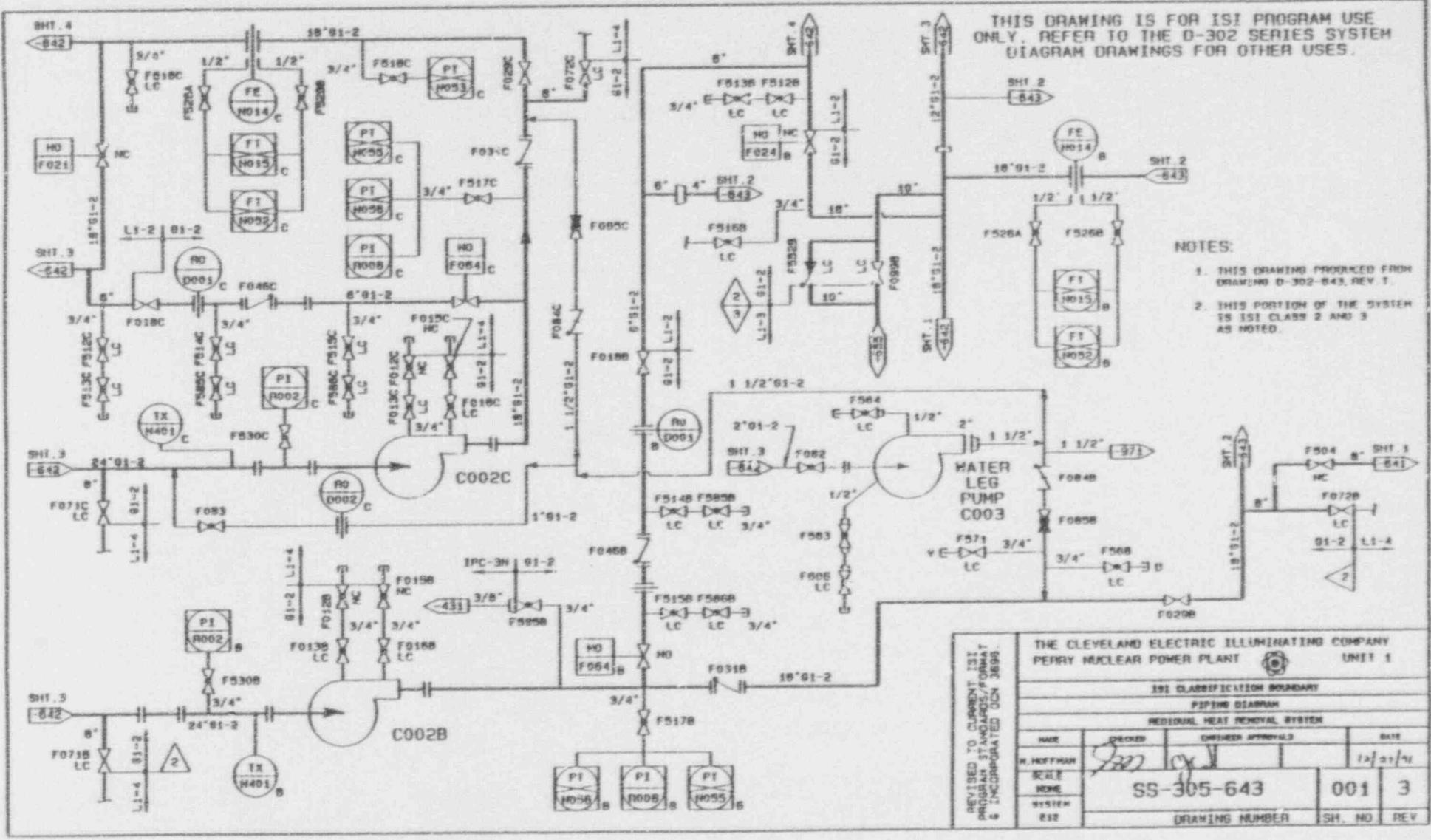


2-70

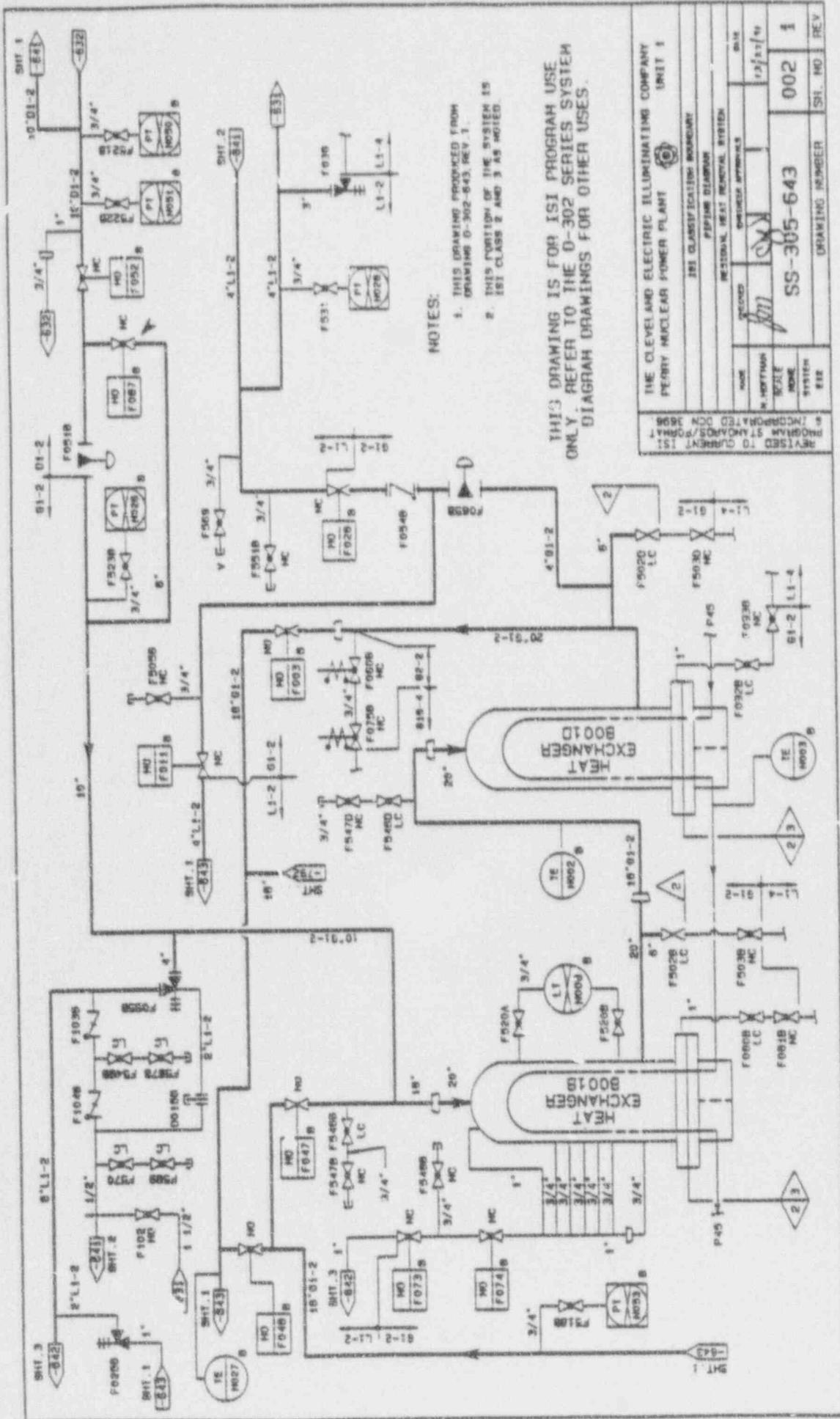
Rev. 1

2-71

Rev. 1



REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT INCORPORATED OCN 3899.

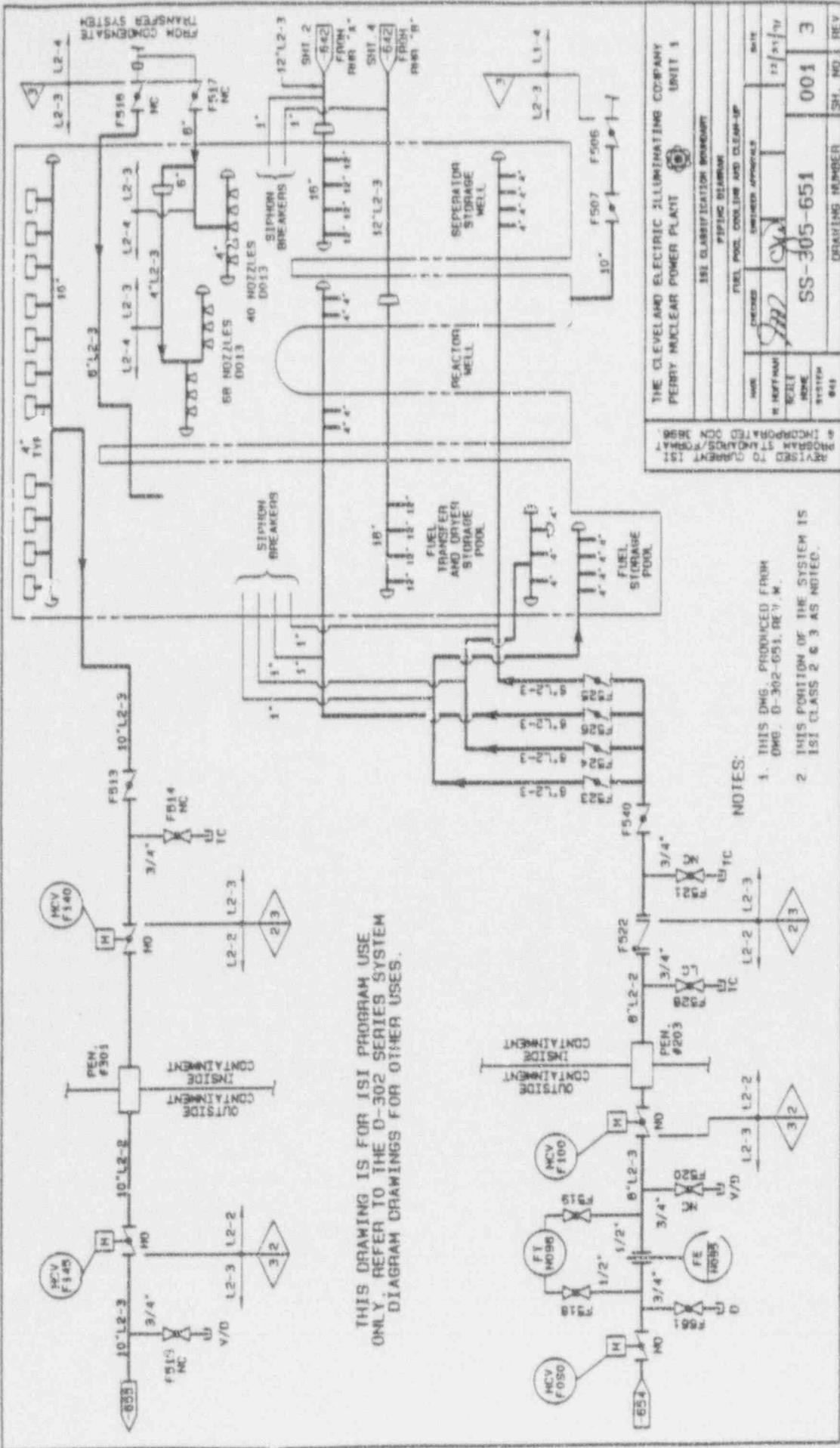


NOTES:

- 1. THIS DRAWING PRODUCED FROM DRAWING 0-302-643, REV. 1.
- 2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

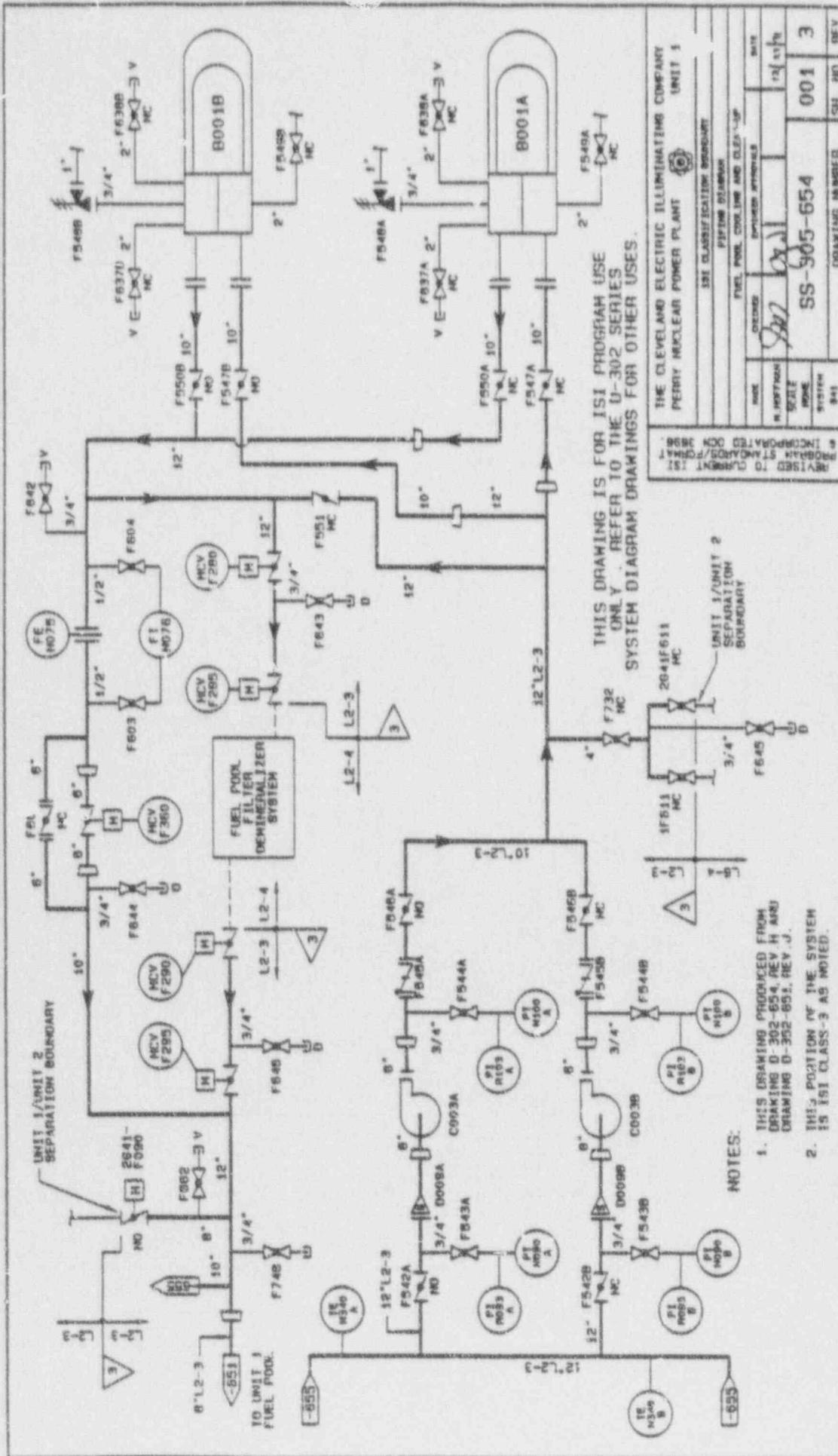
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

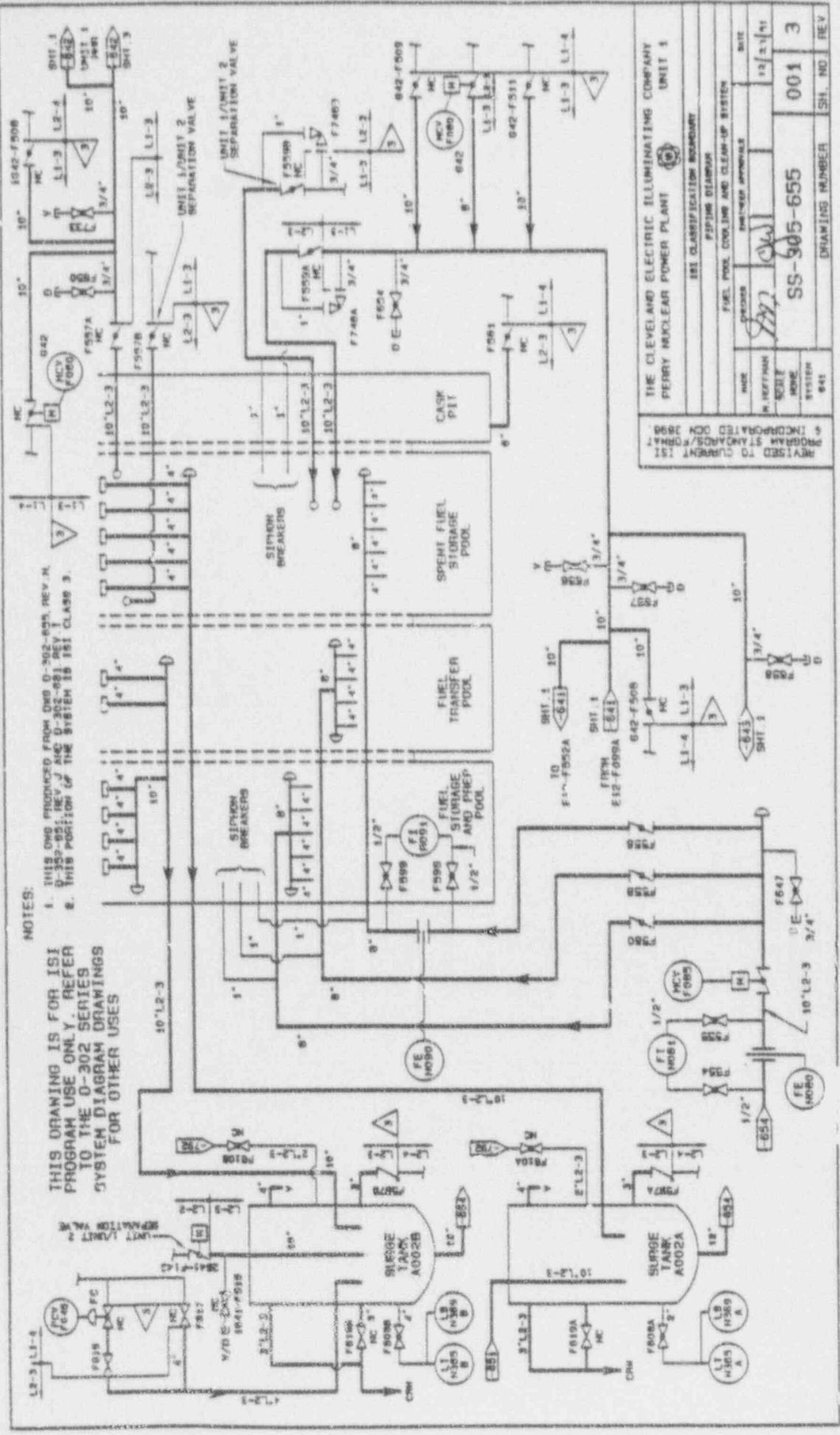
REVISED TO CURRENT ISI PROGRAM STANDARDS/CONFORM TO INCORPORATED DCR 3696		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY FERRY NUCLEAR POWER PLANT	UNIT 1
DATE	DRAWN BY	APPROVED BY	ISSUED
12/11/79	[Signature]	[Signature]	002
SYSTEM	DRAWING NUMBER	SSI. NO.	REV.
IS	SS-305-643	002	1



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-651, REV. A.
  2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 & 3 AS NOTED.





NOTES:  
 1. THIS DWG PRODUCED FROM DWG 0-302-85A, REV. A.  
 2. THIS PORTION OF THE SYSTEM IS ISI CLASS 3.

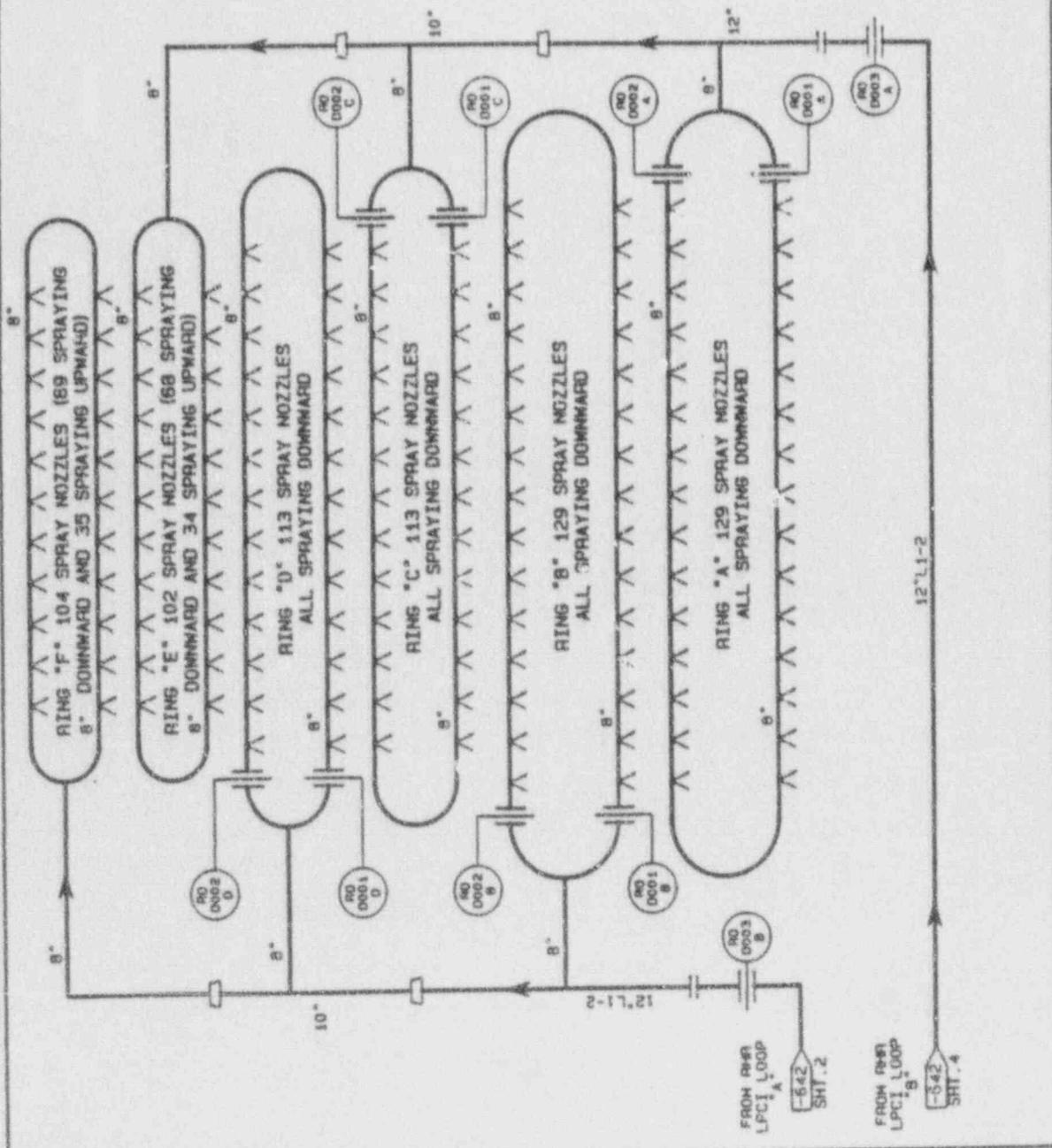
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES

REVISIONS TO CURRENT PROGRAMS AND/OR SYSTEMS INCORPORATED FOR

NO.	DATE	BY	APPROVED
1	12/21/91	SOLE	12/21/91

ISS CLASSIFICATION BOUNDARY  
 FUEL POOL COOLING AND CLEAN-UP SYSTEM

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	UNIT 1
PERRY NUCLEAR POWER PLANT	
SS-305-655	001 3
DRAWING NUMBER	SHT. NO. REV.



**NOTES:**

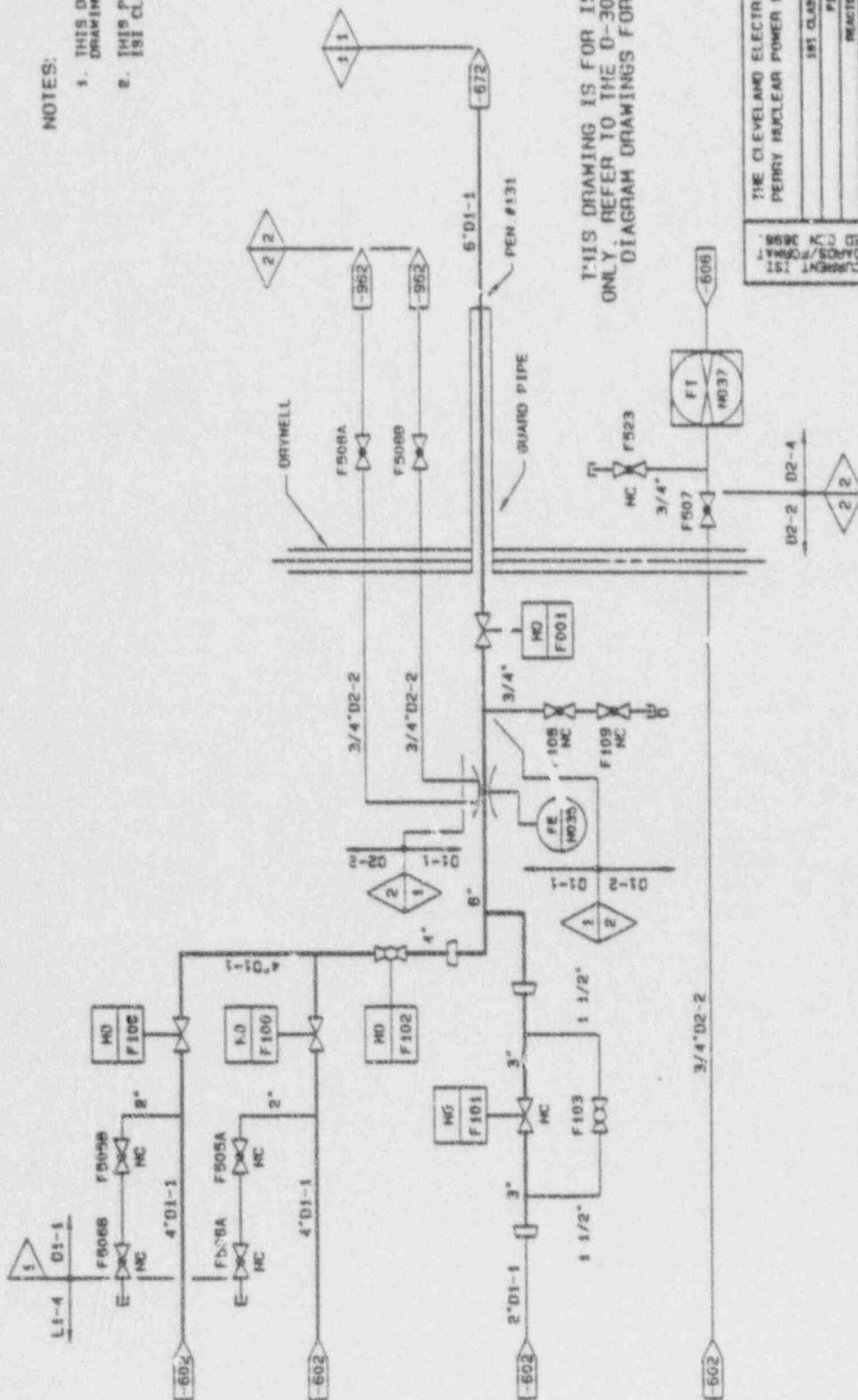
1. THIS DRAWING PRODUCED FROM DRAWING D-302-661, REV. M
2. ENTIRE SYSTEM IS ISI CLASS 2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCN 3609.		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT	
SCALE: NONE		UNIT 1	
SYSTEM: FAS		SS-305-661	
DRAWING NUMBER: 001		SH. NO: 2	
DATE: 1/11/74		DRAWING NUMBER: 001	
DESIGNED BY: JYB		DATE: 1/11/74	
CHECKED BY: JYB		DATE: 1/11/74	
DRAWN BY: JYB		DATE: 1/11/74	
ISI CLASSIFICATION: CONFIDENTIAL			
FID/OS DESIGNATION: FID/OS DESIGNATION			

NOTES:

1. THIS DRAWING PROVIDED FROM DRAWING D-302-671, REV. N.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1 AND 2 AS NOTED.



THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PERRY NUCLEAR POWER PLANT UNIT 1

REVISIONS TO CURRENT DESIGN  
PROGRAM STAFF/DESIGNER/DATE  
# INCORPORATED CUM #699

181 CLASSIFICATION BOUNDARY

PIPING DEPARTMENT

REACTOR WATER CLEAR-UP

ENGINEER APPROVALS

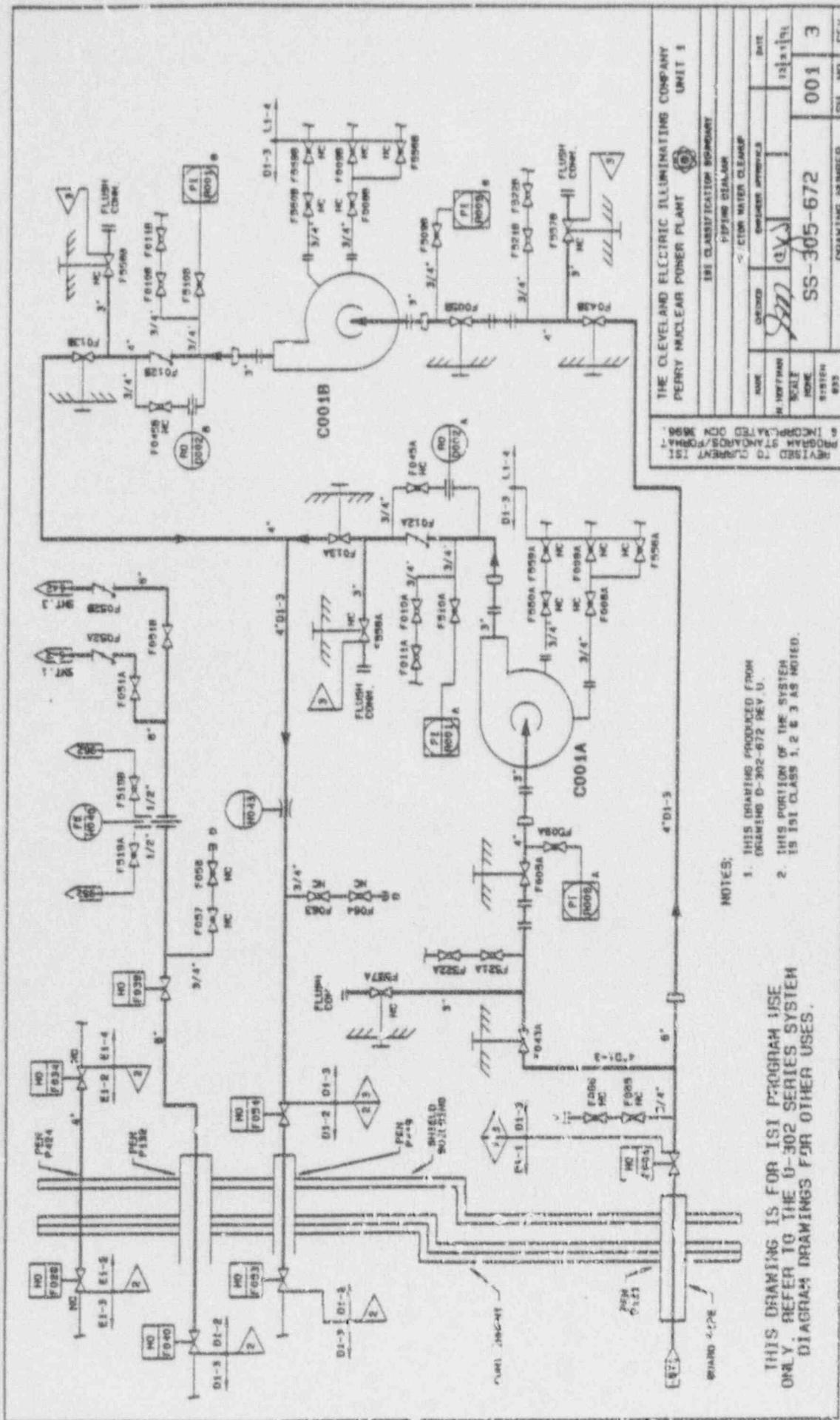
DATE

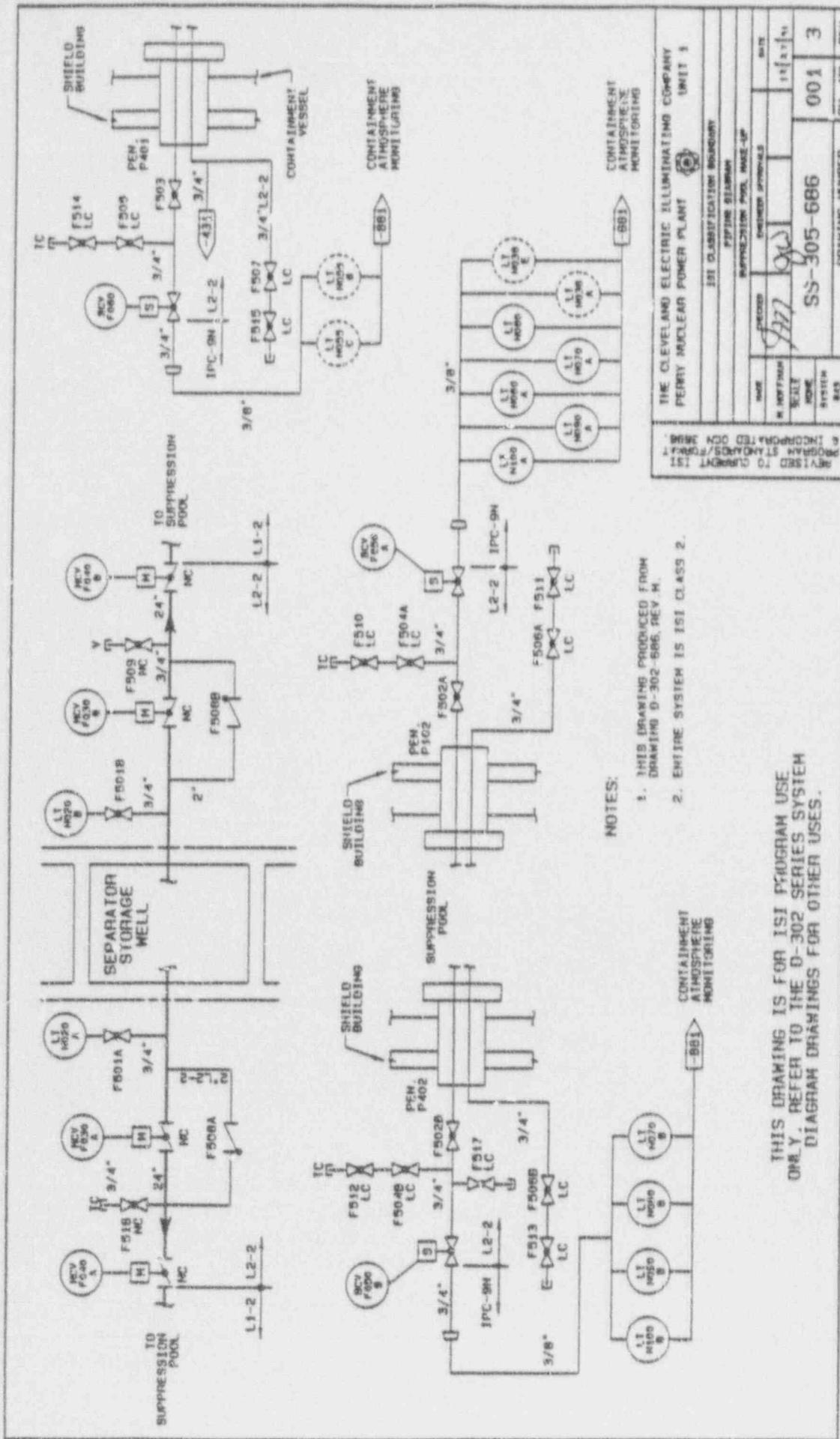
12/21/81

SS-305-671

001 3

DRIVING NUMBER SH. NO. REV



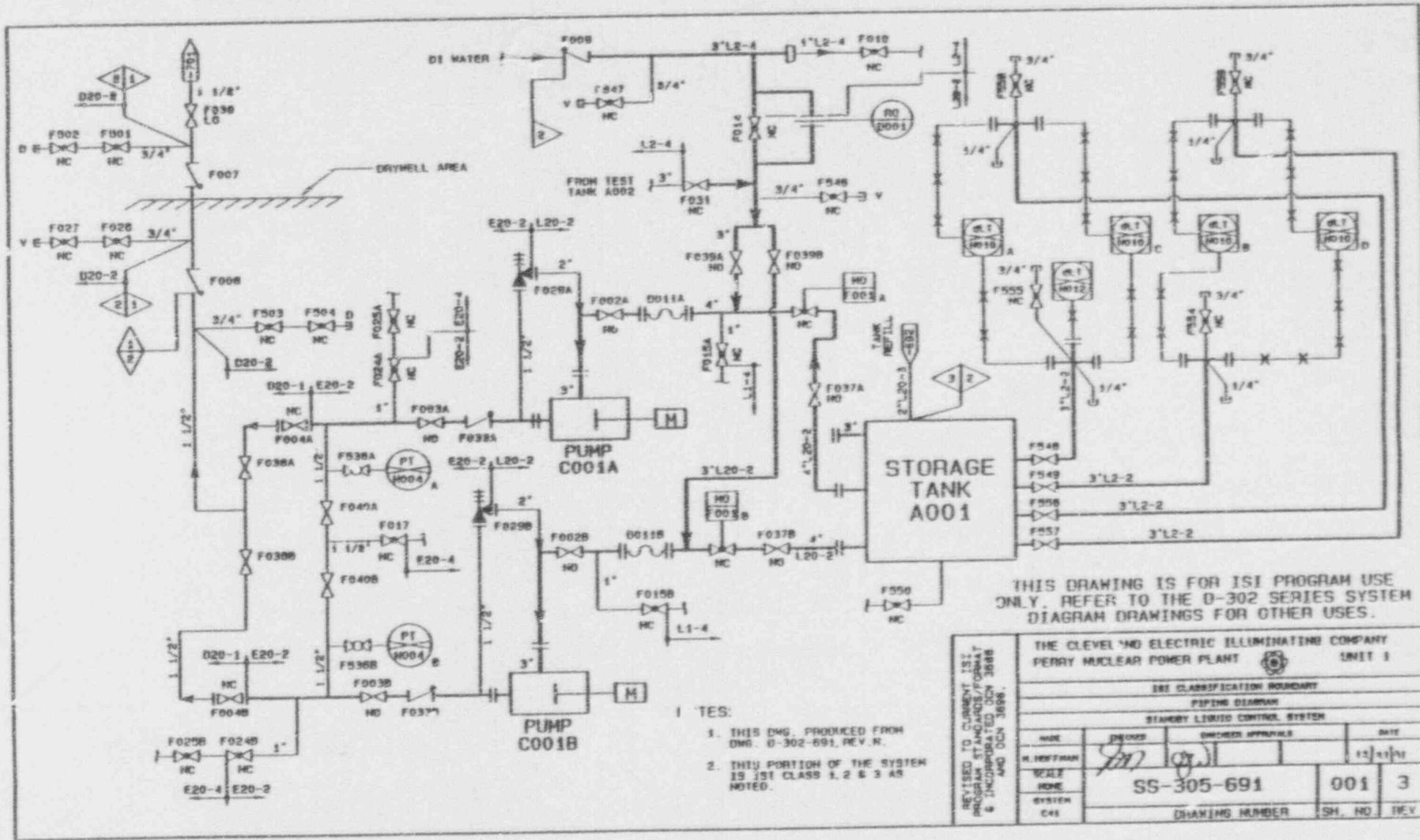


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-686, REV. M.
2. ENTIRE SYSTEM IS ISI CLASS 2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
1ST CLASSIFICATION BOUNDARY			
SUPPRESSION POOL MAKE-UP			
DATE	DESIGNED APPROVALS	DATE	REV
12/21/61		12/21/61	1
SS-305-686	001	3	
DRAWING NUMBER		SH. NO	
REV		REV	

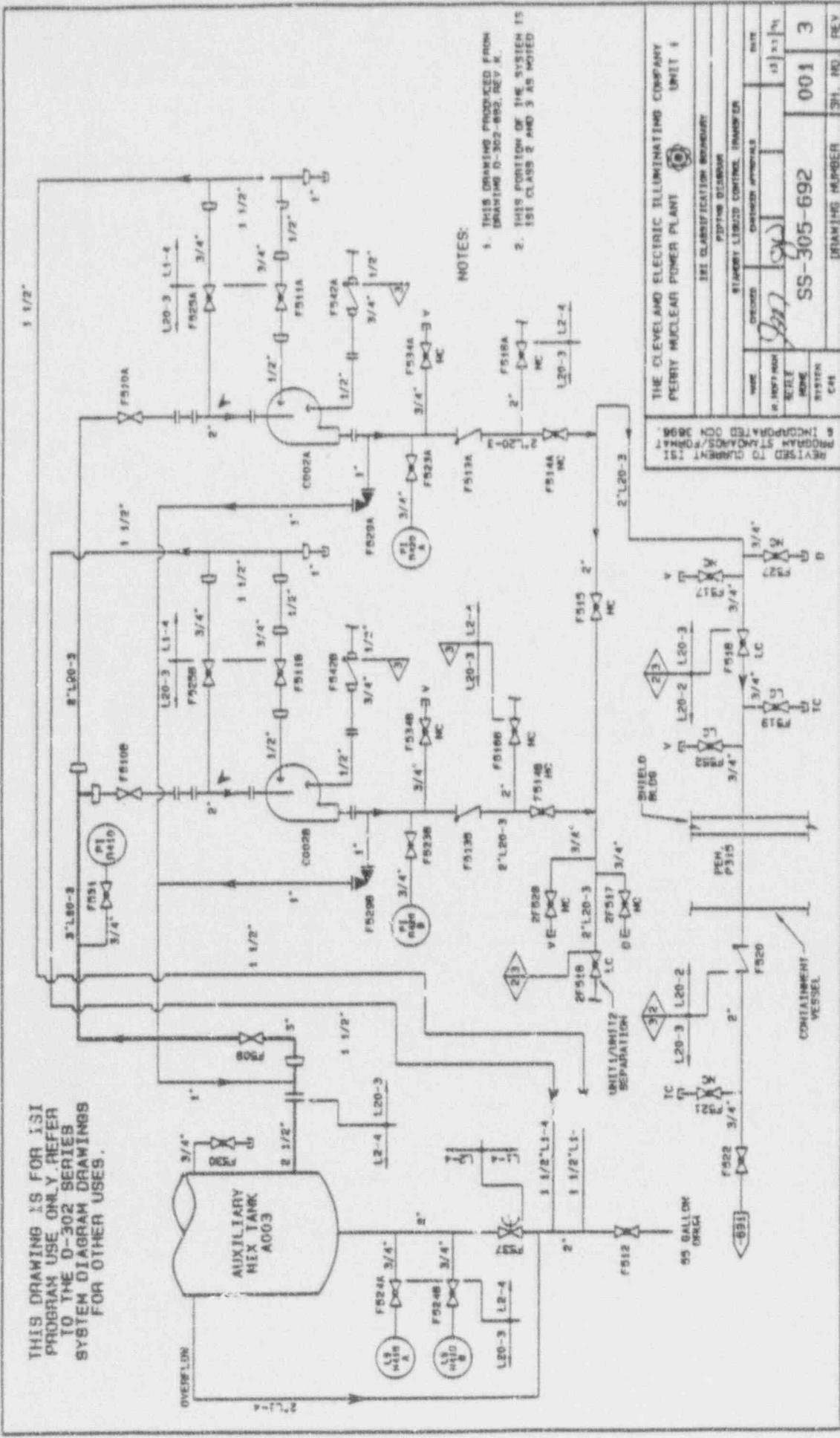


THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

- NOTES:
1. THIS DWG. PRODUCED FROM DWG. D-302-691, REV. N.
  2. THIS PORTION OF THE SYSTEM IS ISI CLASS 1, 2 & 3 AS NOTED.

REVISIONS TO THIS DRAWING TO BE MADE ONLY BY THE ISSUING OFFICE. ANY CHANGES TO BE MADE BY OTHER OFFICES MUST BE APPROVED BY THE ISSUING OFFICE.	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1			
	SEE CLASSIFICATION BOUNDARY			
	PIPING DIAGRAM			
	STANDBY LIMITED CONTROL SYSTEM			
DATE	DESIGNED	CHECKED APPROVALS	DATE	
12/11/71				
SCALE	SS-305-691		001	3
SYSTEM				
DWG	DRAWING NUMBER		SH. NO	REV

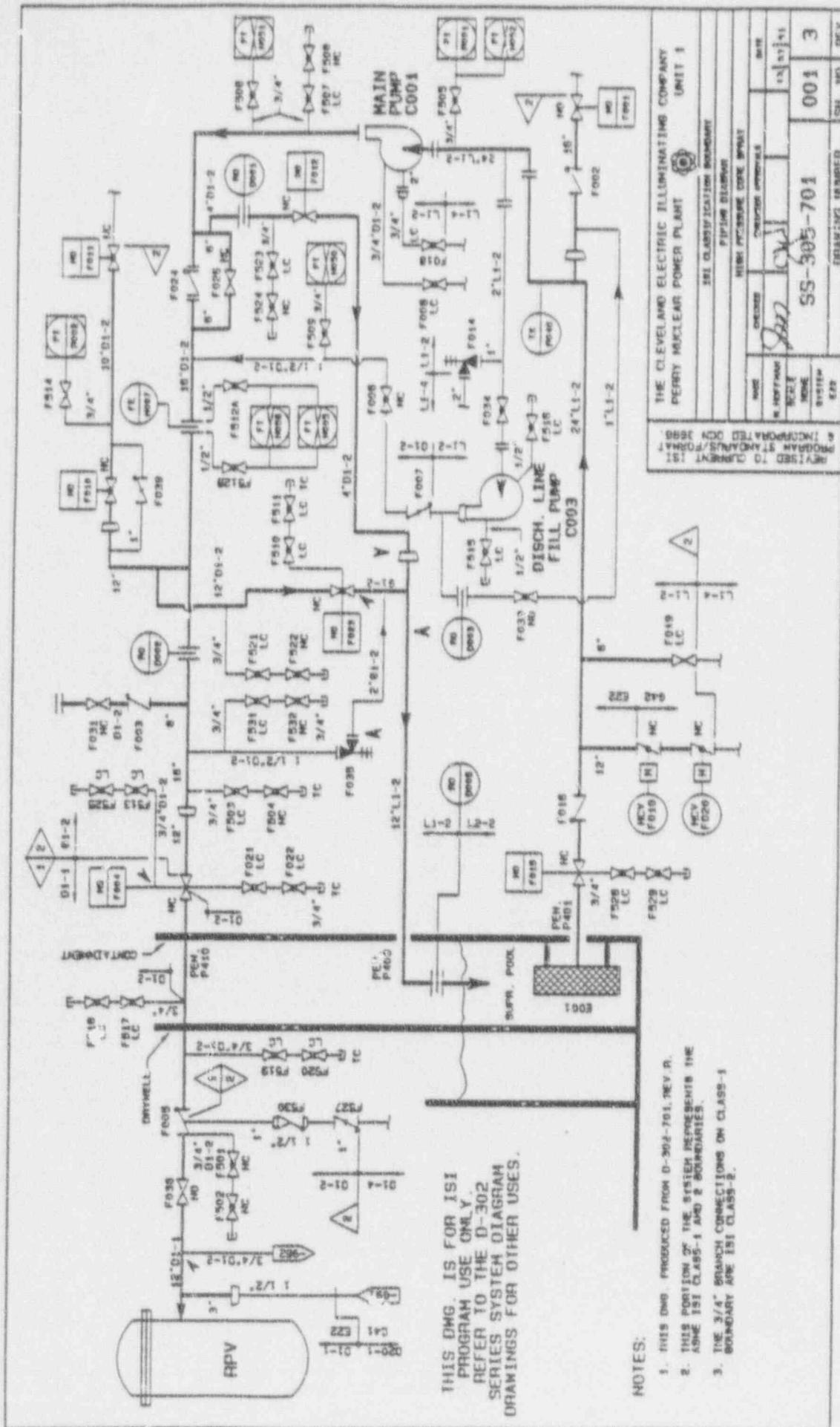
THIS DRAWING IS FOR ISI  
PROGRAM USE ONLY. REFER  
TO THE D-302 SERIES  
SYSTEM DIAGRAM DRAWINGS  
FOR OTHER USES.



NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-892, REV. K.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
ISI CLASSIFICATION BOUNDARY	
PIPING DIAGRAM	
STANLEY LIBERTY CONTROL TRANSDUCER	
DATE	15 JUN 74
DESIGNED	[Signature]
CHECKED	[Signature]
APPROVED	[Signature]
ISSUE	001 3
PROGRAM	SS-305-692
SCALE	
NAME	
SYSTEM	
CH	
DRAWING NUMBER	301, RD REV



THIS DMG. IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

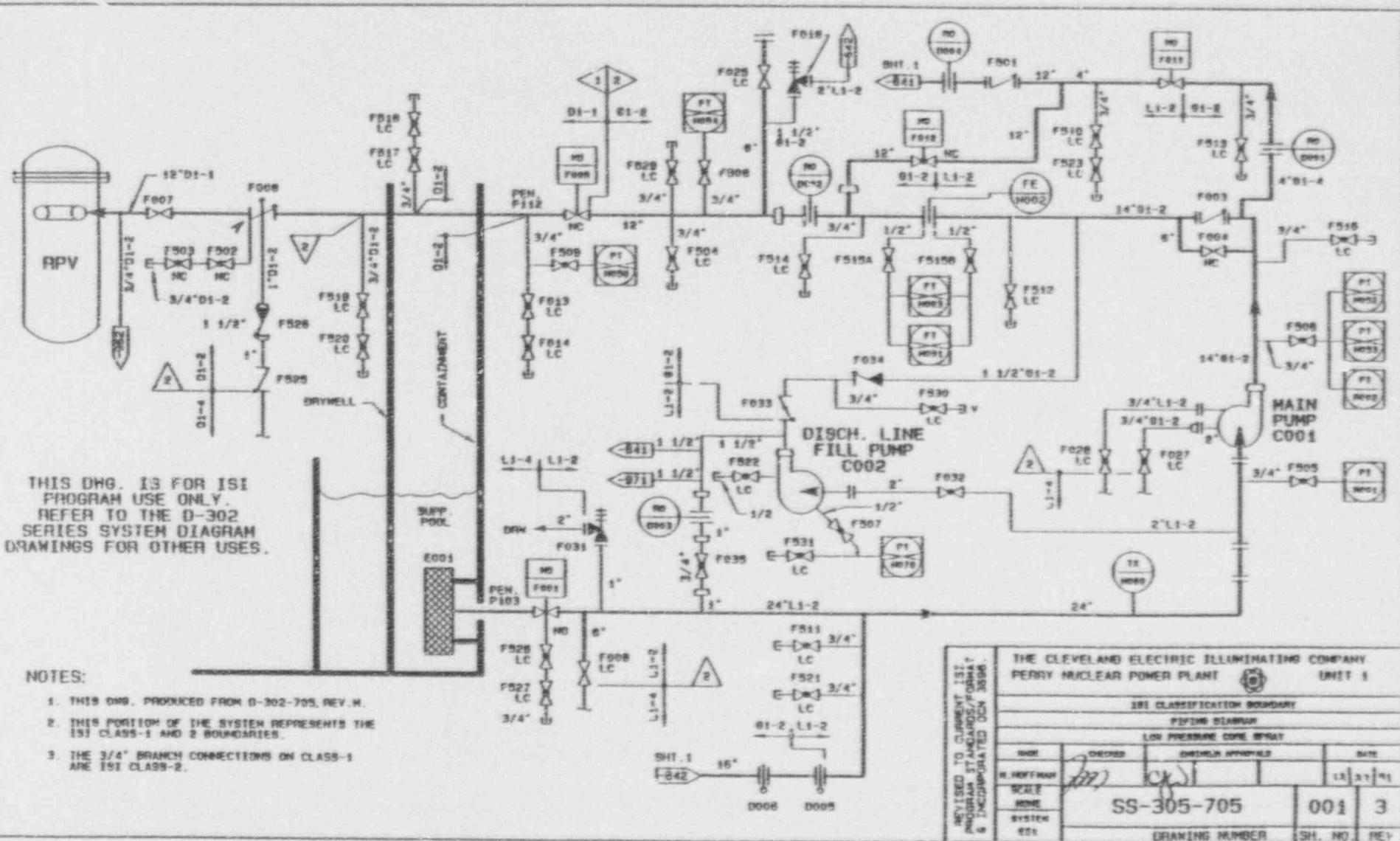
1. THIS DMG. PRODUCED FROM D-302-701, REV. R.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ASME ISI CLASS-1 AND 2 BOUNDARIES.
3. THE 3/4" BRANCH CONNECTIONS ON CLASS-1 BOUNDARY ARE ISI CLASS-2.

REVISIONS TO DRAWING PROGRAM STANDARDS INCORPORATED 01/1988

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT (UNIT 1)  
 ISI CLASSIFICATION BOUNDARY  
 PIPING DIAGRAM  
 MAIN PUMP CORE INLET

DATE	DESIGNED	CHECKED	APPROVED	DATE
12/11/81	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	12/11/81
BY	NO. REV.	DATE	BY	NO. REV.

DRAWING NUMBER: 55-305-701  
 SH. NO. 001  
 REV. 3

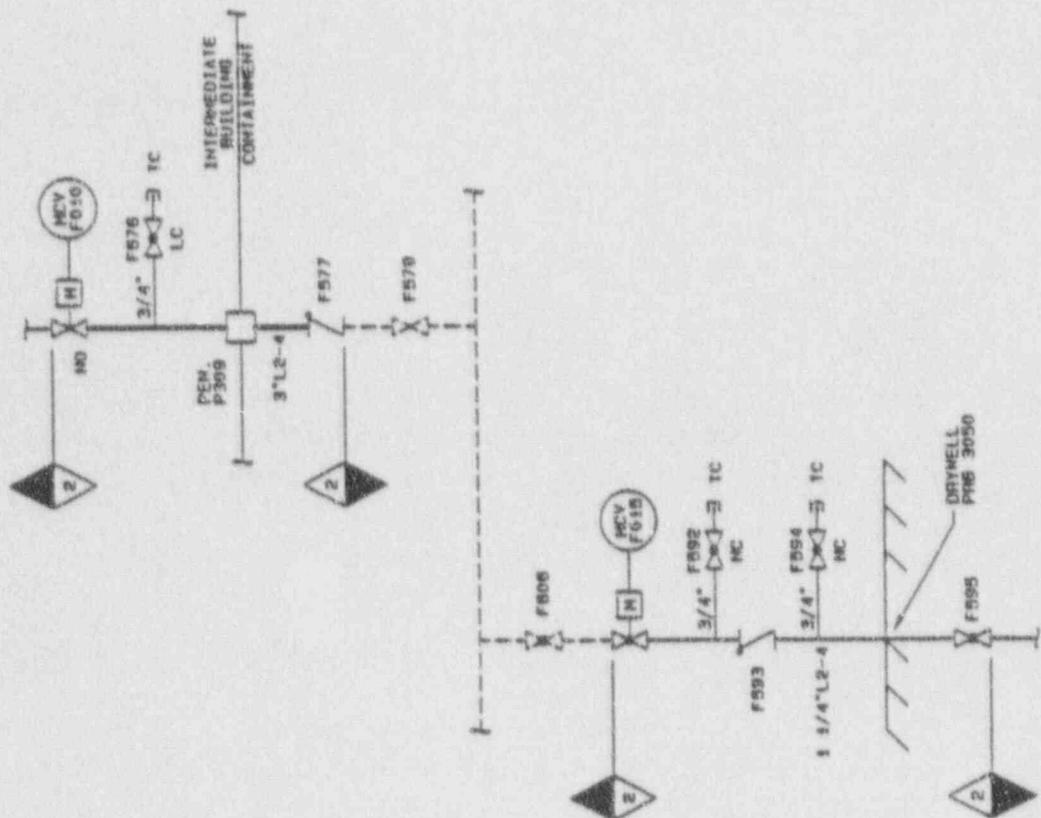


THIS DWG. IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DWG. PRODUCED FROM D-302-705, REV. H.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-1 AND 2 BOUNDARIES.
3. THE 3/4" BRANCH CONNECTIONS ON CLASS-1 ARE ISI CLASS-2.

REVISED TO CURRENT LISTING PROGRAM STANDARDS/FORMAT INCORPORATED DEC 30/84.			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT UNIT 1			
ISI CLASSIFICATION BOUNDARY			
PIPING DIAGRAM			
LOW PRESSURE CORE BRUIT			
NO.	DESIGNED	DESIGN APPROVED	DATE
H. HOFFMAN			12/31/81
SCALE	SS-305-705		001 3
SYSTEM	E01		
DRAWING NUMBER			SH. NO. REV.

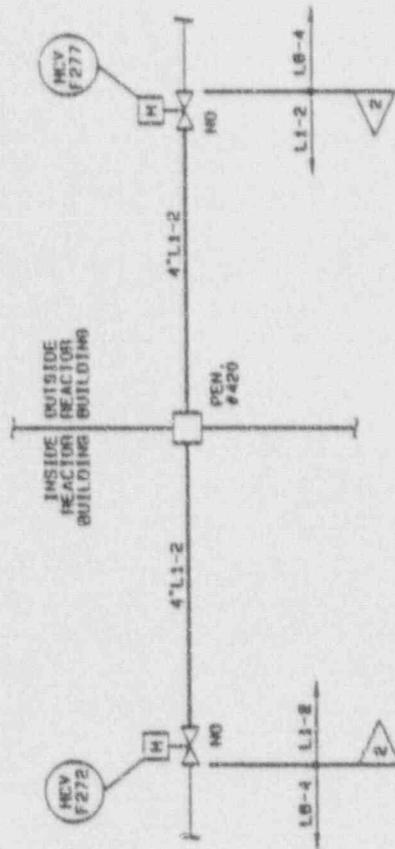


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-713, REV. AA.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/GENERAL & INCORPORATED OCN 3595		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1	
DATE		DATE	
DESIGNED BY		DESIGNED APPROVED	
CHECKED BY		CHECKED APPROVED	
SCALE		SCALE	
SYSTEM		SYSTEM	
F88		F88	
DRAWING NUMBER		SH. NO.	
SS-305-713		001	
REV		REV	
3		3	

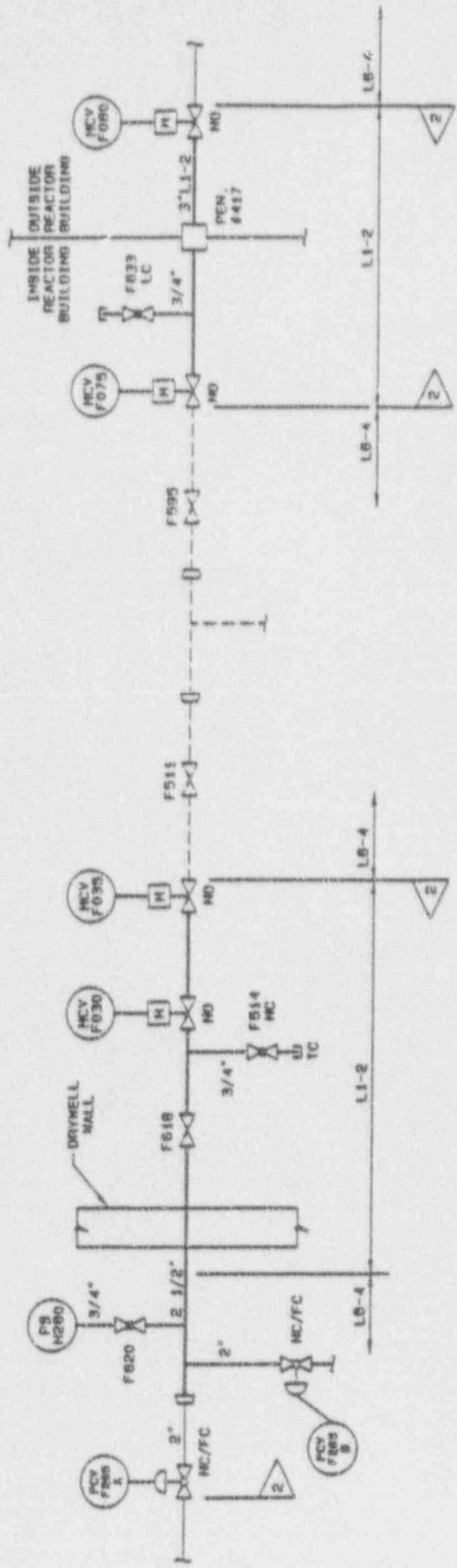


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-737, REV. 5.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED DCN 3896.		THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT		UNIT 1	
NO.	ISSUED	BY	DATE	NO.	REV.
1	11/11/81	SW	11/11/81	001	3
DRAWING NUMBER			SSI. NO.		
SS-305-737			001		
PIPELINE DESIGN			LUBRICANT SYSTEMS		
185 CLASSIFICATION BOARD			LUBRICANT SYSTEMS		



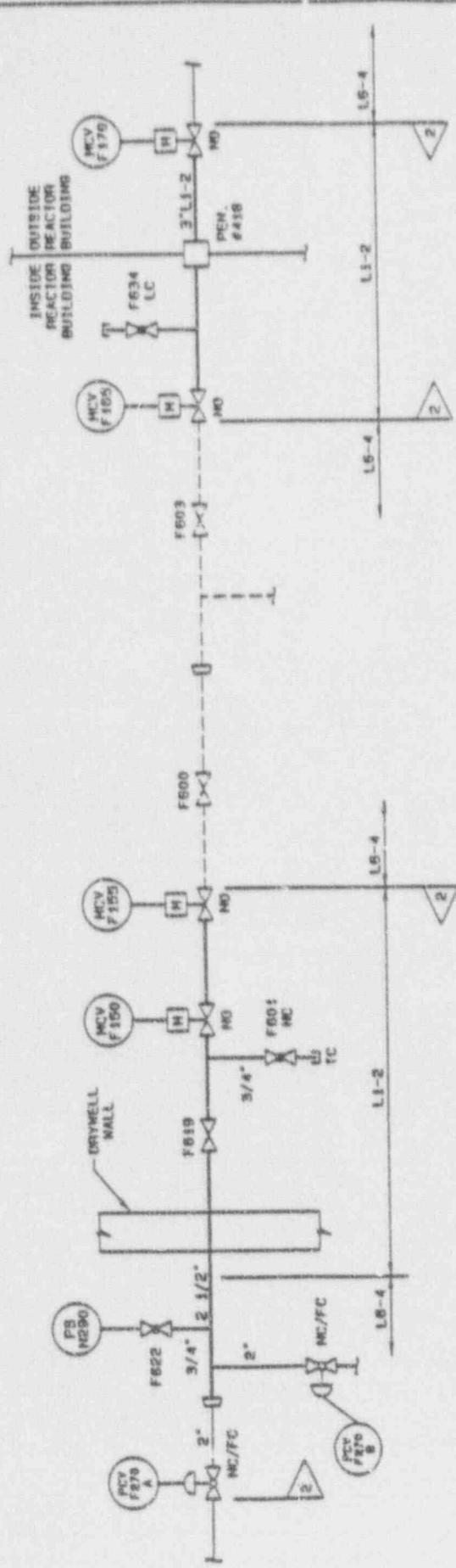
THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-739, REV. V.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 AS NOTED.

REVISOR TO CURRENT PROGRAM STANDARDS/FORM 7

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PEWLY NUCLEAR POWER PLANT		UNIT 1	
ISI CLASSIFICATION SYMBOL			
LIBRATED INSTITUTE ENGINEERING DESIGN GROUP			
DATE	DESIGNED BY	APPROVED BY	SCALE
12/1/51			1/2"
NO. 001	SS-305-739	001	3
SYSTEM UNIT	DRAWING NUMBER	ISI. NO.	REV.

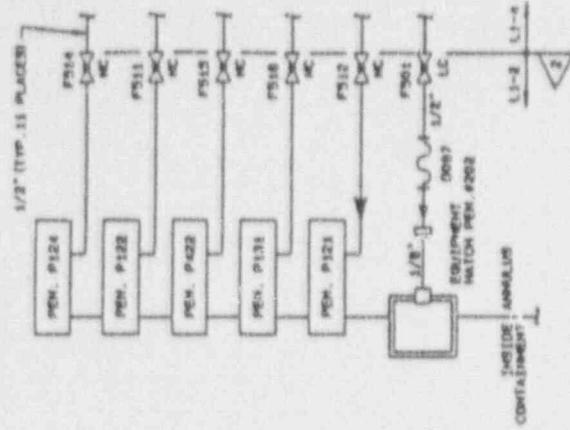
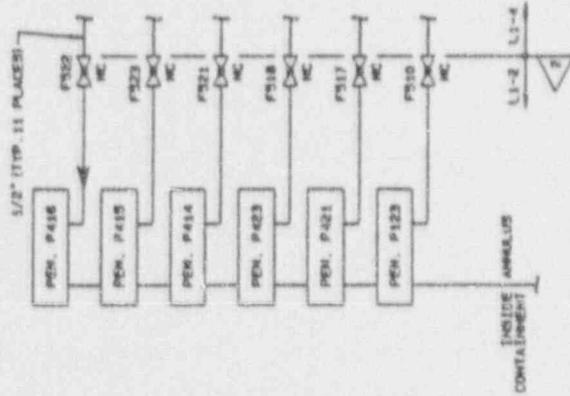
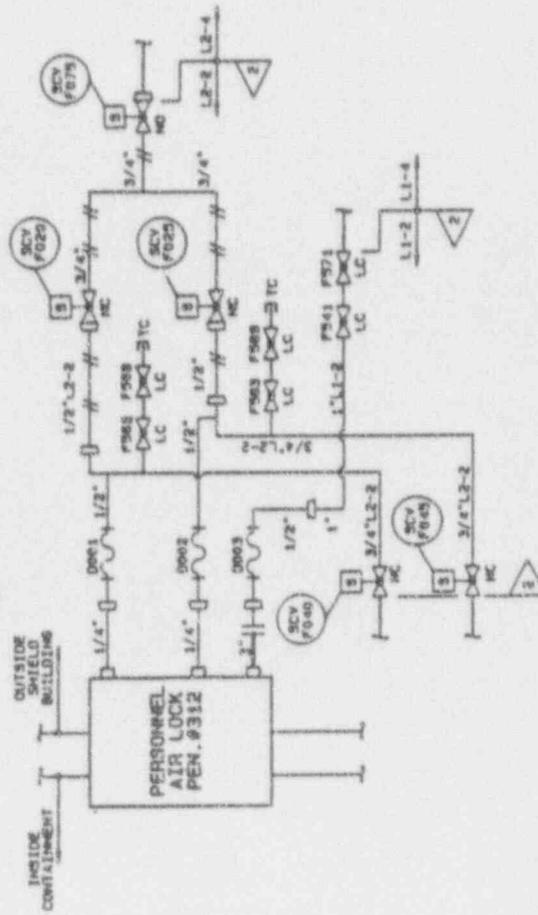
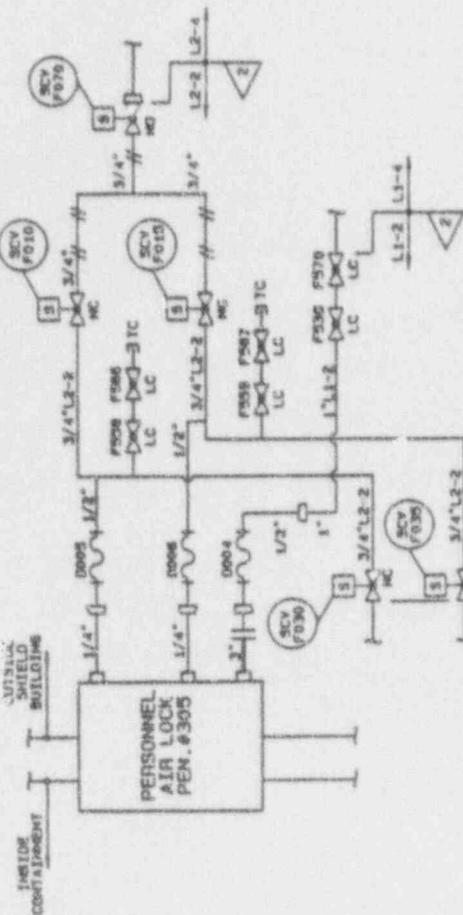


THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

NOTES:

1. THIS DRAWING PROVIDED FROM DRAWING D-302-740, REV. U.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 AS NOTED.

REVISED TO CURRENT PROGRAM STANDARDS FOR INCORPORATED ON 05/01/88		DATE	
BY	DATE	BY	DATE
W. HOFFMAN	11/21/41		
SCALE			
SYSTEM	001		
SS-305-740			
DRINKING WATER			
DRINKING NUMBER	001		
SH. NO.	3		
REV			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1			
PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION BOUNDARY			
PIPE/DRAIN			
LIMITED WASTE FLOW DRAIN			



NOTES:

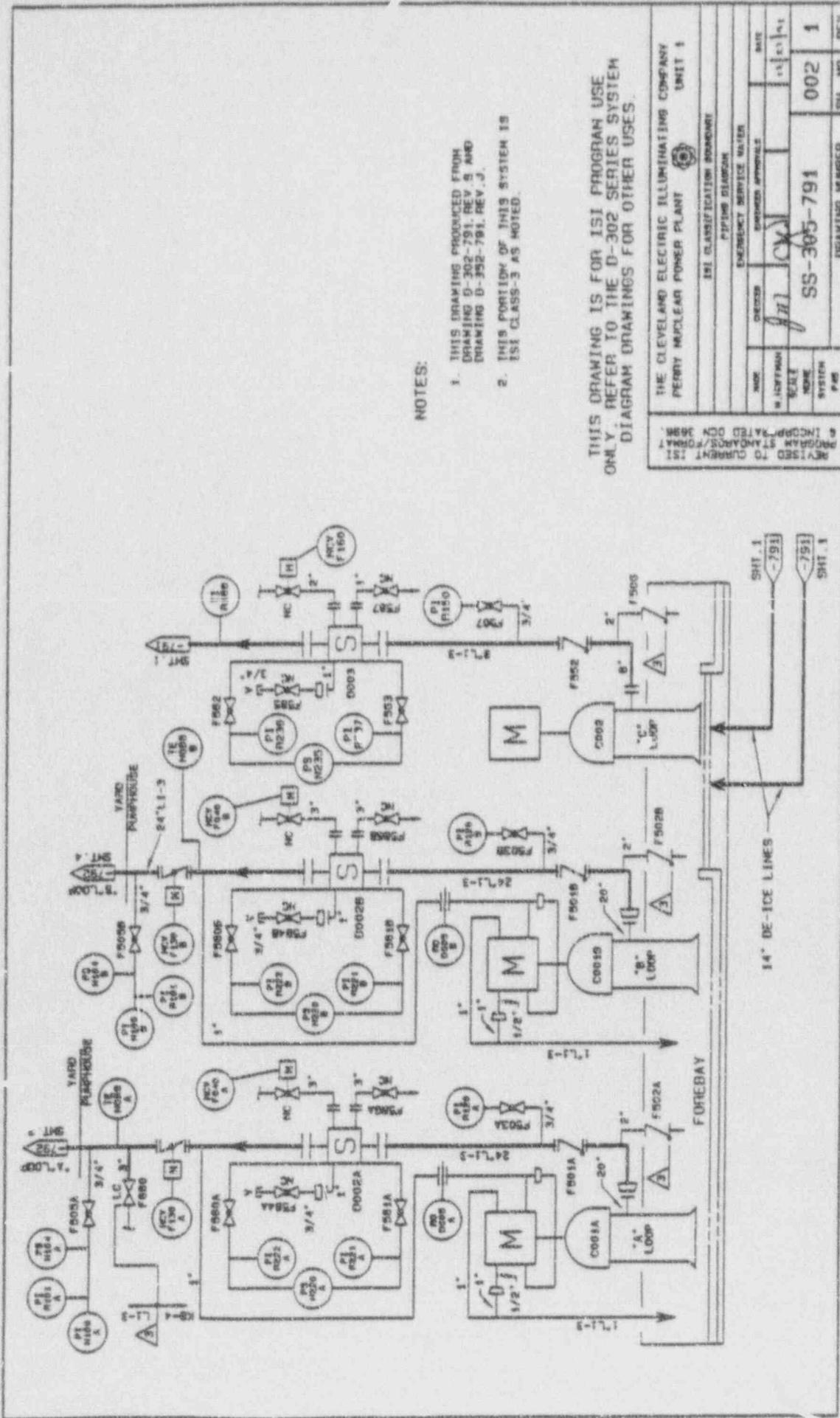
1. THIS DRAWING PRODUCED FROM DRAWING D-302-761, REV. E.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		PERRY NUCLEAR POWER PLANT		UNIT 1	
THE CLASSIFICATION SYMBOL					
PIPELINE DIAGRAM					
PENETRATION IDENTIFICATION					
NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS
1	2	3	4	5	6
SCALE			DATE		
NONE			3/15/77		
SYSTEM			DRAWING NUMBER		
PSB			SS-305-761		
			001		
			2		
			SH. NO.		
			REV		

REVISOR TO CURRENT ISI PROGRAM STARTED/DATE



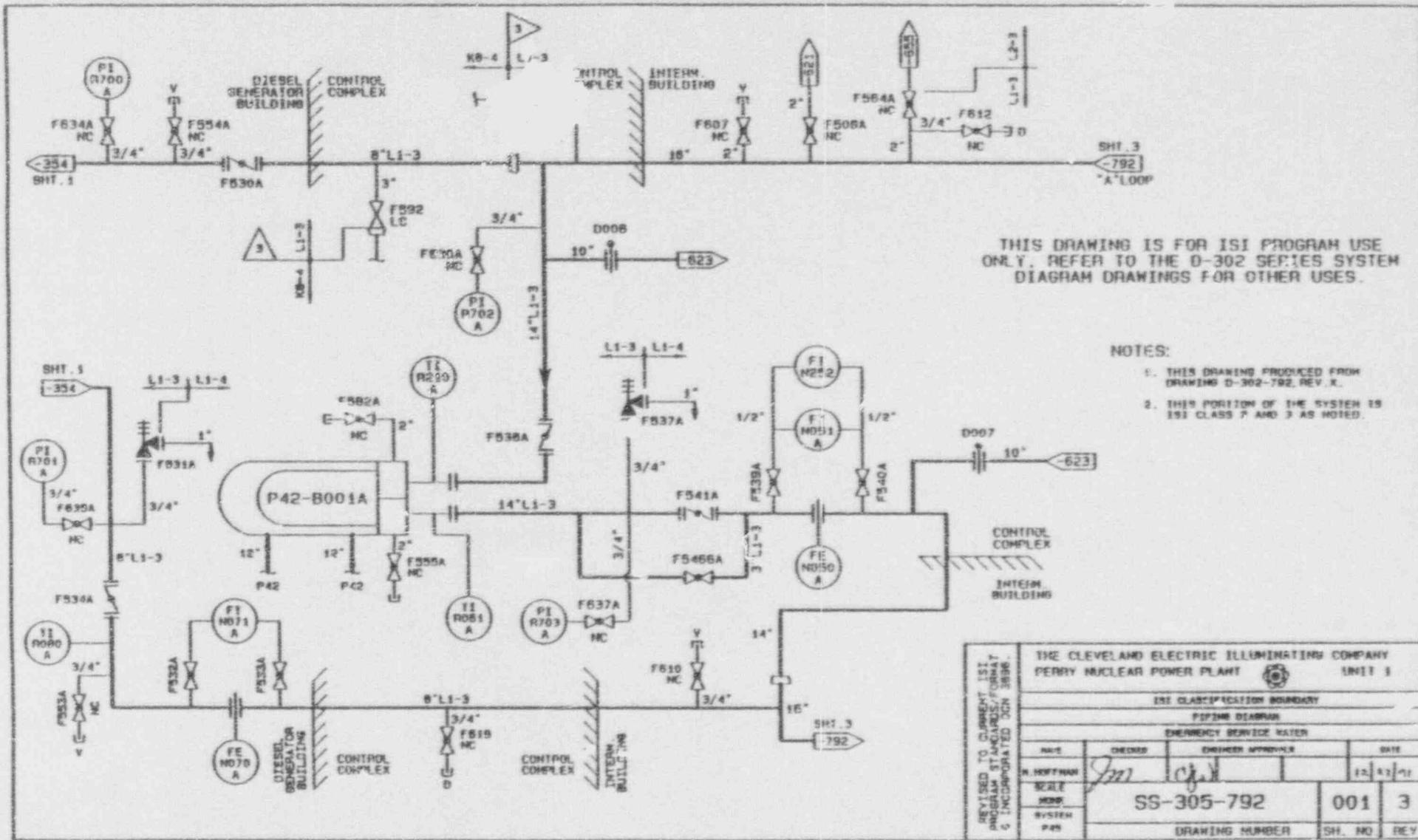


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-791, REV. 5 AND DRAWING D-352-791, REV. J.
2. THIS PORTION OF THIS SYSTEM IS ISI CLASS-5 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT LIST PROGRAM STANDARDS/FORMAT		P INCORPORATED ON 1988	
THE CLASSIFICATION SYMBOL			
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY UNIT 1			
FERRY NUCLEAR POWER PLANT			
PIPING DESIGN			
EMERGENCY SERVICE WATER			
UNCLASSIFIED			
NO.:	DESIGN:	DATE:	REV:
1	SS-305-791	002	1
DRAWING NUMBER			SH. NO.
			REV.

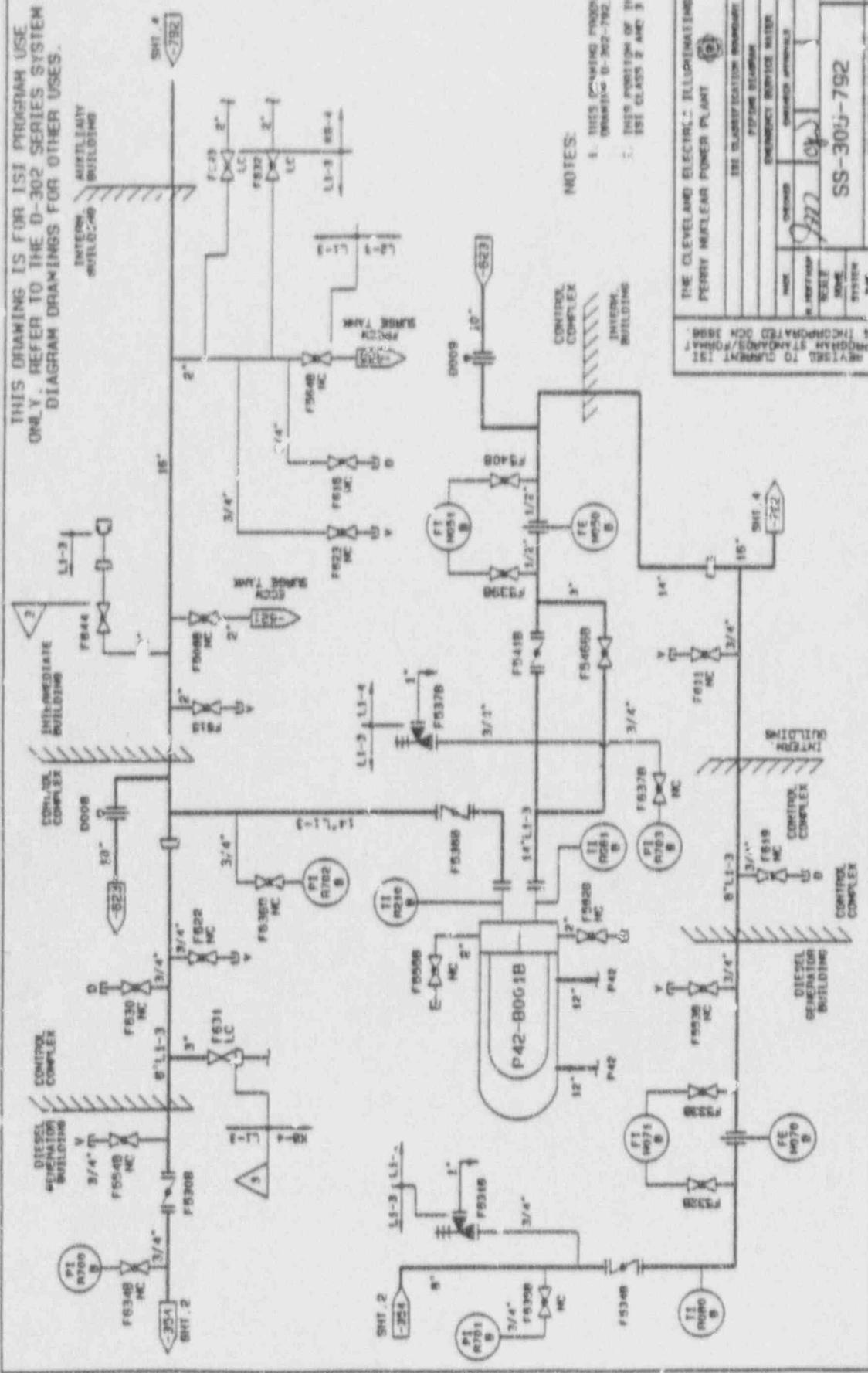


THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

- NOTES:
1. THIS DRAWING PRODUCED FROM DRAWING D-302-792, REV. X.
  2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED FOR 3886.	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNIT 1			
	EST. CLASSIFICATION BOUNDARY			
	PIPING DESIGN			
	EMERGENCY SERVICE WATER			
	NAME	CHECKED	ENGINEER APPROVAL	DATE
H. HOFFMAN	Jm	[Signature]	12/12/71	
SCALE	SS-305-792		001 3	
SYSTEM	DRAWING NUMBER		SH. NO REV	
PWS	SS-305-792		001 3	

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-792 REV. 3.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

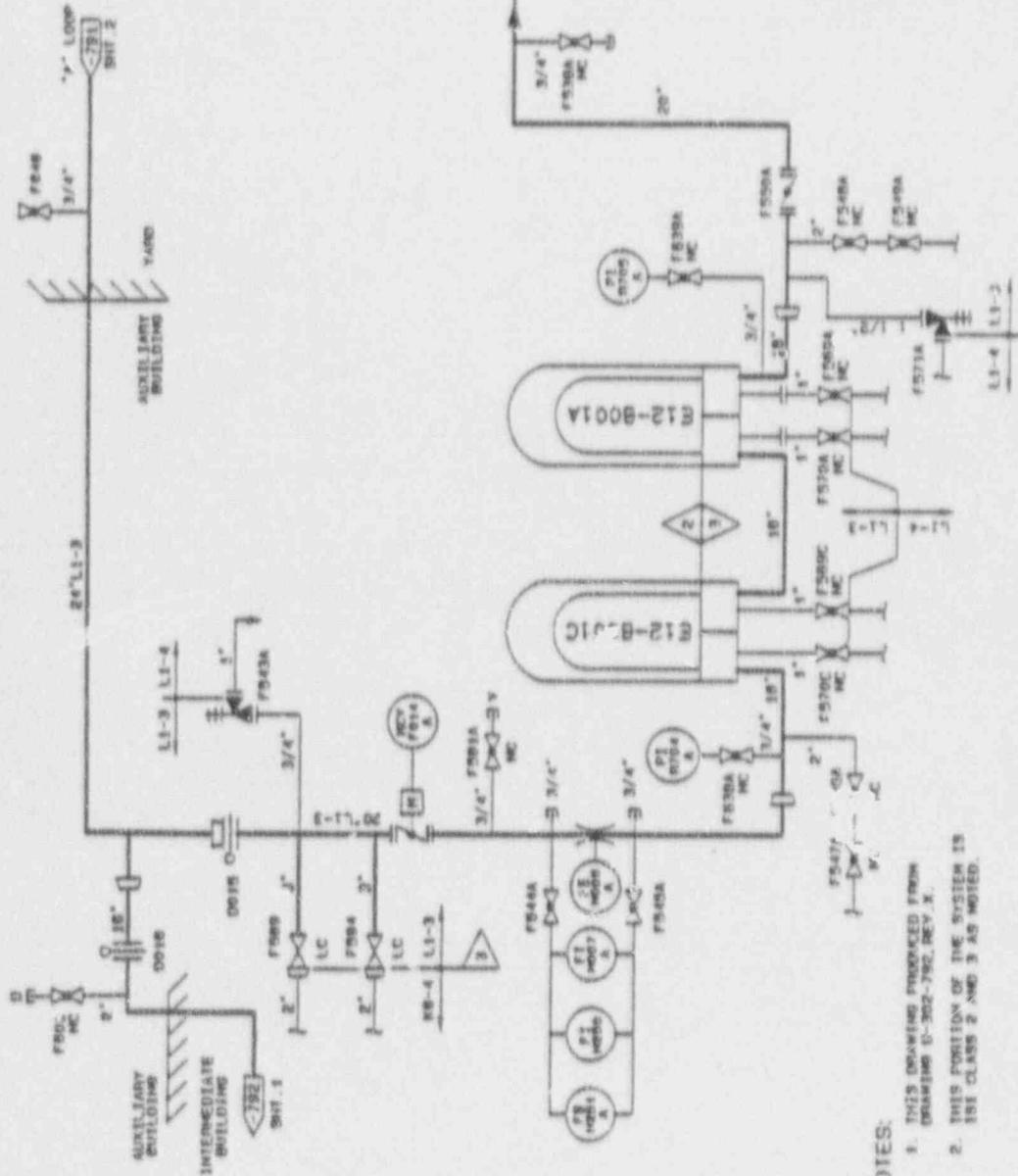
REVISION TO DRAWING PROGRAM INCORPORATED ON 1988

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY REFLEX POWER PLANT UNIT 1  
 SEE CLASSIFICATION SUMMARY

NO.	DESCRIPTION	DATE
1	ISSUED	11/11/84
2	REVISED	
3	REVISED	

SS-303-792  
 DRAWING NUMBER  
 002  
 3  
 P-4C  
 SYSTEM  
 REV

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



NOTES:  
 1. THIS DRAWING PRODUCED FROM DRAWING D-302-79C, REV. X.  
 2. THIS POSITION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

REVISED TO CURRENT IAI PROGRAM STANDARDS/FORMAT & INCORPORATED ON 10/78. AMI ON 10/88.

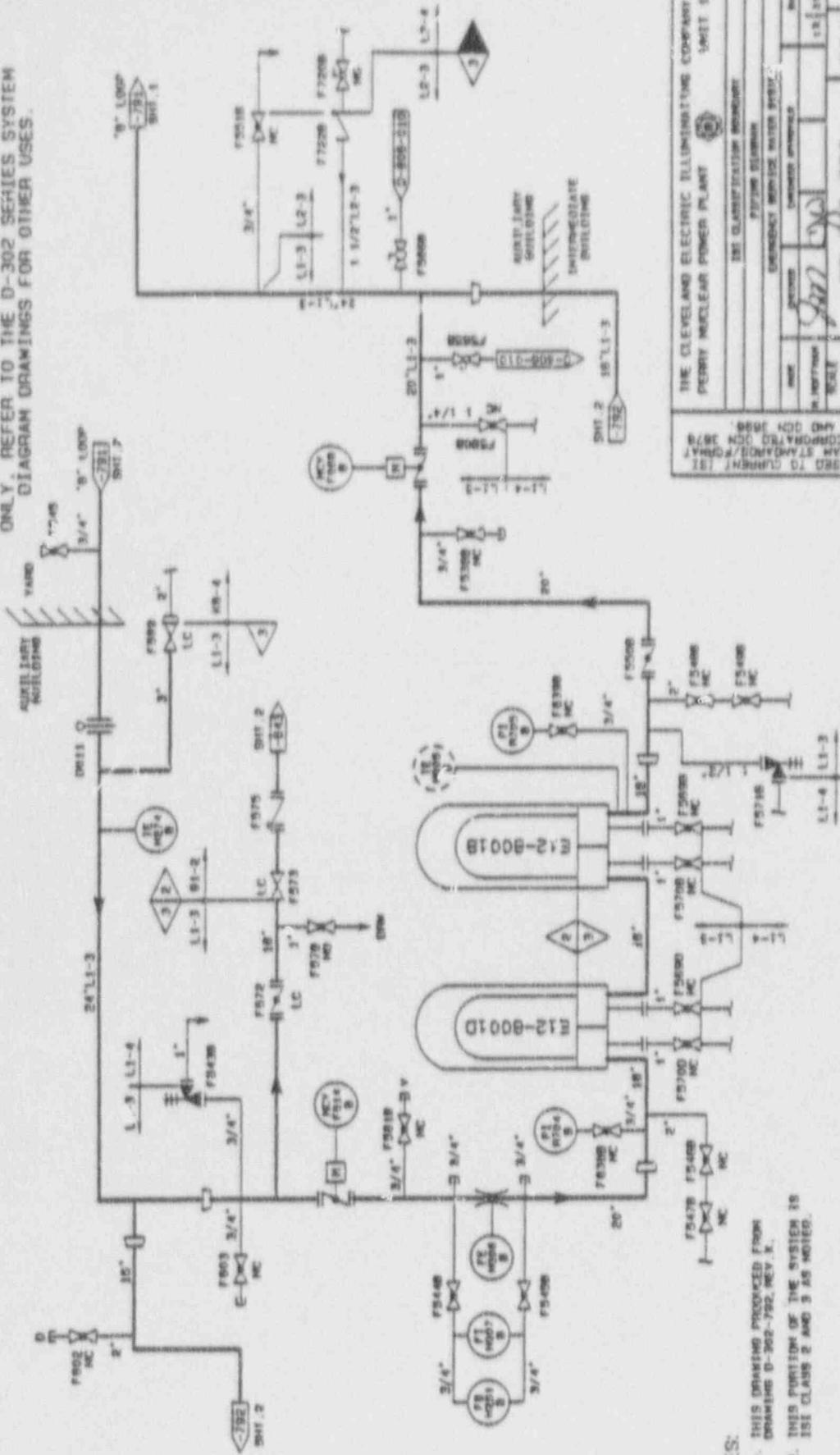
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 FERRY NUCLEAR POWER PLANT UNIT 1

THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 05/19/00 BY 60321 UCBAW

NAME	DESIGNED BY	DATE
SCALE	APPROVED BY	DATE
REVISION		
PAGE		

SS-305-79C  
 003 1  
 DRAWING NUMBER SH. NO. REV.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



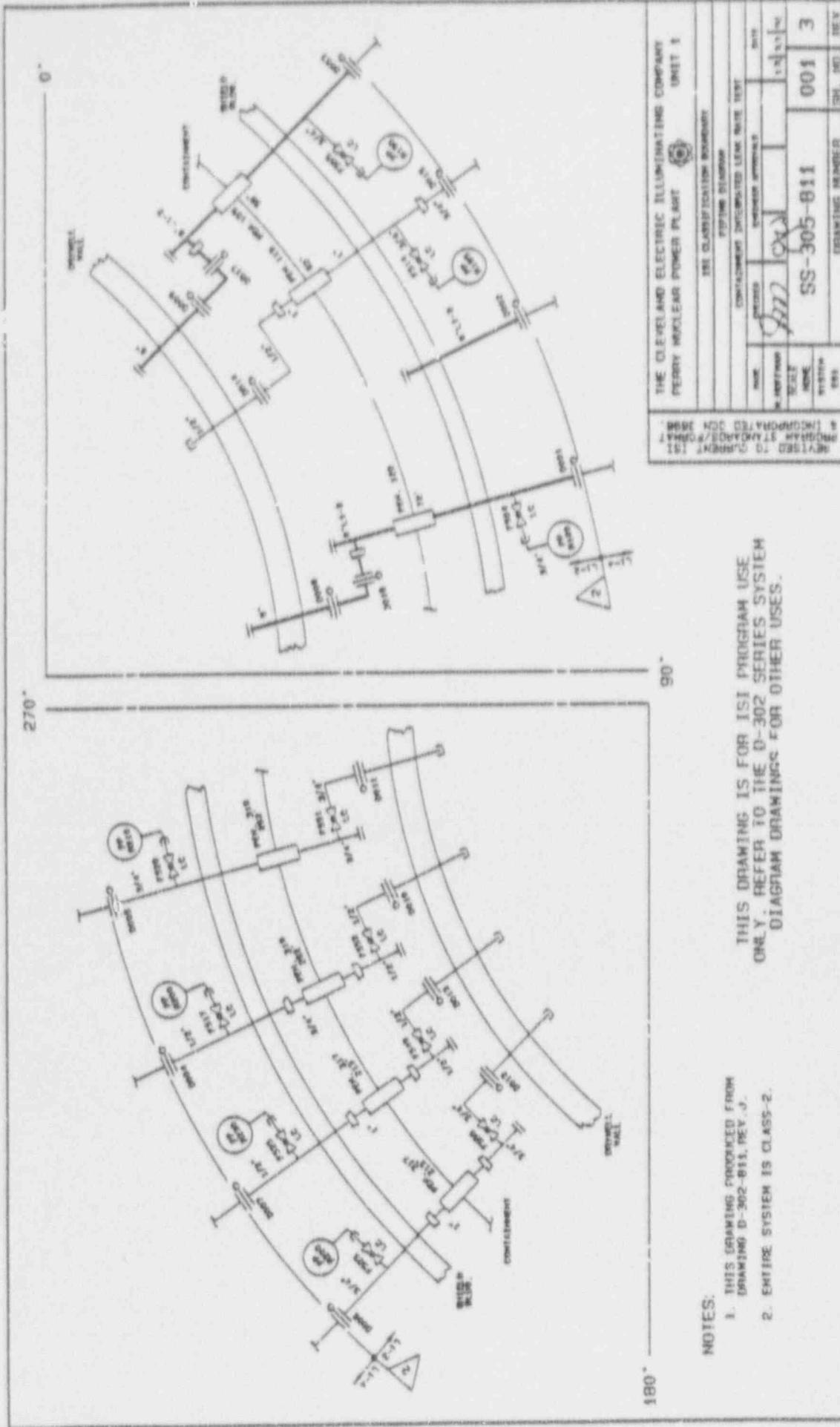
NOTES:

1. THIS DRAWING PRODUCED FROM PROGRAM STANDARDS/FORMAT 8 (INCORPORATED ON 10/78 AND ON 10/88).
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT SHEET 1

ISI CLASSIFICATION NUMBER: F5700 05000  
 EMERGENCY SERVICE WATER SYSTEM  
 DATE: 11/21/81

SS-305-792  
 DRAWING NUMBER: 004 1



REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT & INCORPORATED ON 0888.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PERRY NUCLEAR POWER PLANT

THE CLASSIFICATION BOUNDARY  
SYSTEM BOUNDARY

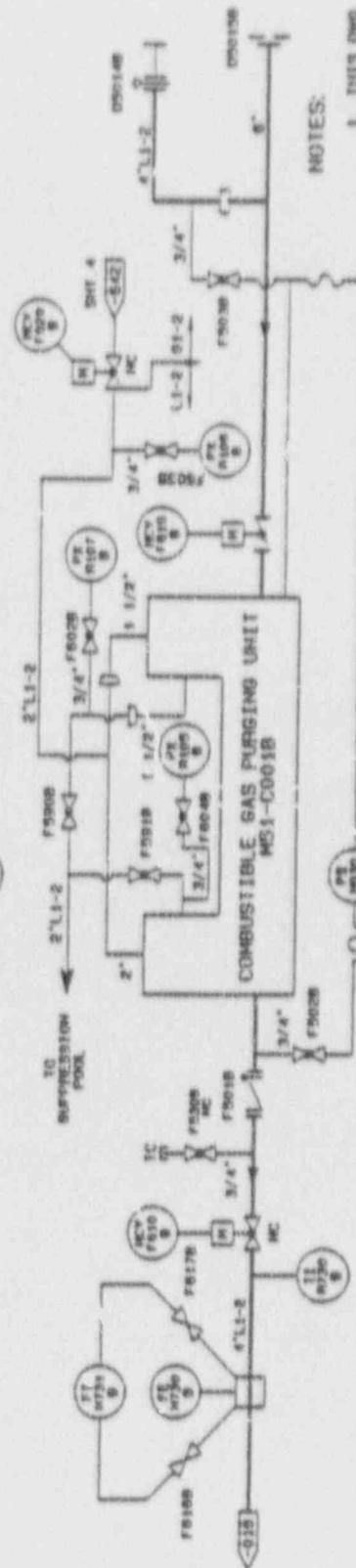
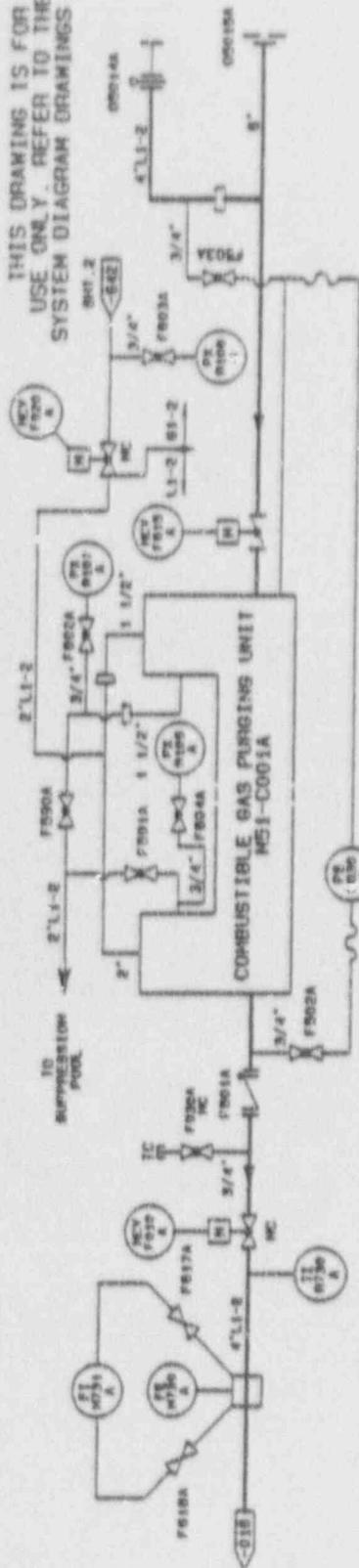
CONTACTMENT INCORPORATED LEAK RATE TEST

DATE	APPROVED	BY
11/1/74	<i>[Signature]</i>	11/1/74
SIZE	SS-305-811	001
NO.	001	3
SYSTEM	DRIVING NUMBER	SH. NO. REV.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

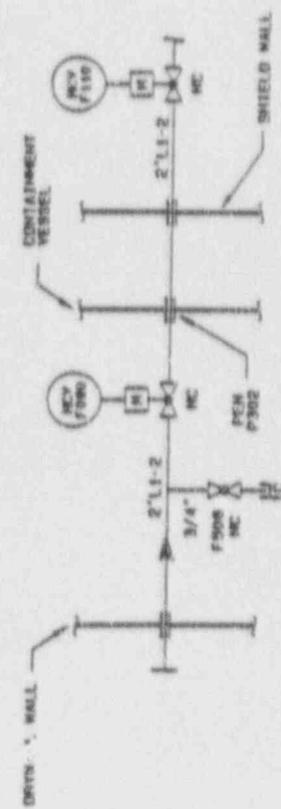
- NOTES:
1. THIS DRAWING PRODUCED FROM DRAWING D-302-811, REV. J.
  2. ENTIRE SYSTEM IS CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM  
USE ONLY. REFER TO THE D-302 SERIES  
SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



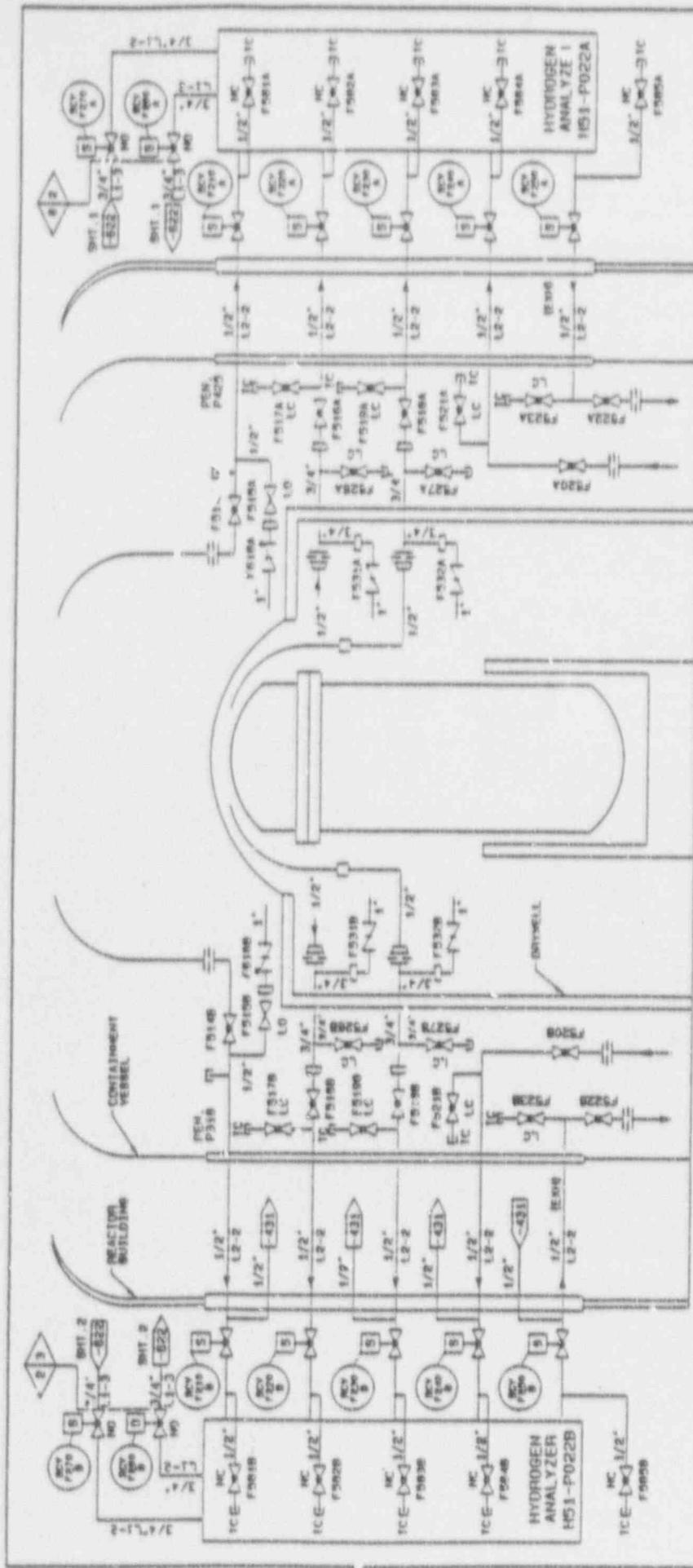
NOTES:

1. THIS DWG. PRODUCED FROM  
DWG. D-302-831, REV. U.
2. ENTIRE SYSTEM IS ISI CLASS-2.



REVISED TO CORRECT  
PROGRAM STATIONING  
AS INCORPORATED ON 0888

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		UNIT 1	
ISI CLASSIFICATION PROPERTY			
PURGING SYSTEM			
COMBUSTIBLE GAS CONTROL SYSTEM			
DATE	REVISED	ISSUED APPROVAL	DATE
			11/1/78
SCALE	AS SHOWN		
SYSTEM			
DWG. NO.	SS-305-831	DRAWING NUMBER	001 3
REV.		SPL. NO.	RE

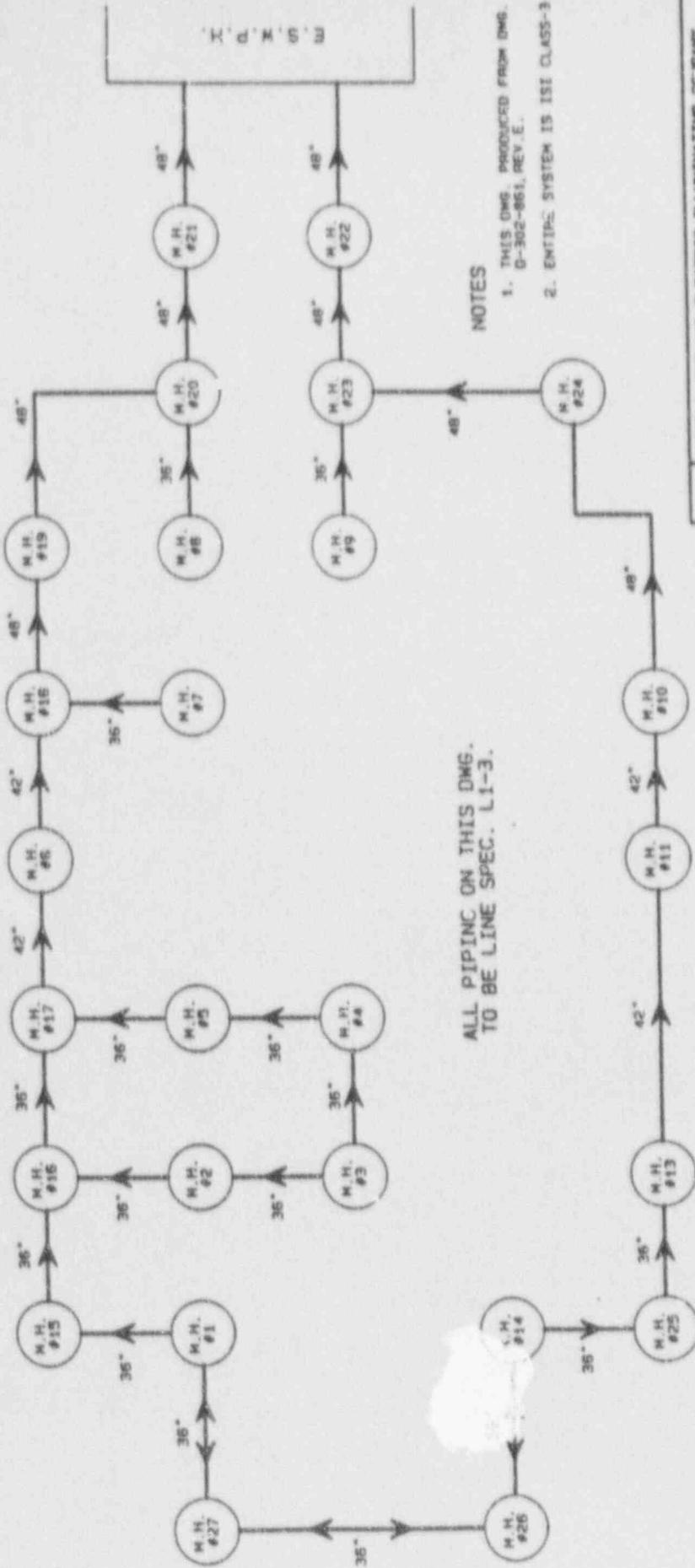


REVISED TO CORRECT  
 PROGRAMMING ERRORS  
 IN HYDROGEN ANALYZER  
 H51-P022B

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
FERRY NUCLEAR POWER PLANT			
SEE CLASSIFICATION SCHEMATIC			
SYSTEM DESIGN			
HYDROGEN ANALYZER			
DATE	DESIGNED	APPROVED	BY
12/11/71	JAL	[Signature]	[Signature]
NO. 001	SS-305-832	DRAWING NUMBER	
REV. 3		SPL. NO.	REV.

THIS DRAWING IS FOR ISI PROGRAM USE  
 ONLY. REFER TO THE D-302 SERIES SYSTEM  
 DIAGRAM DRAWINGS FOR OTHER USES.

- NOTE:
1. THIS DWG. PRODUCED FROM DWG. D-302-832, REV. 0.
  2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.



ALL PIPING ON THIS DWG. TO BE LINE SPEC. LI-3.

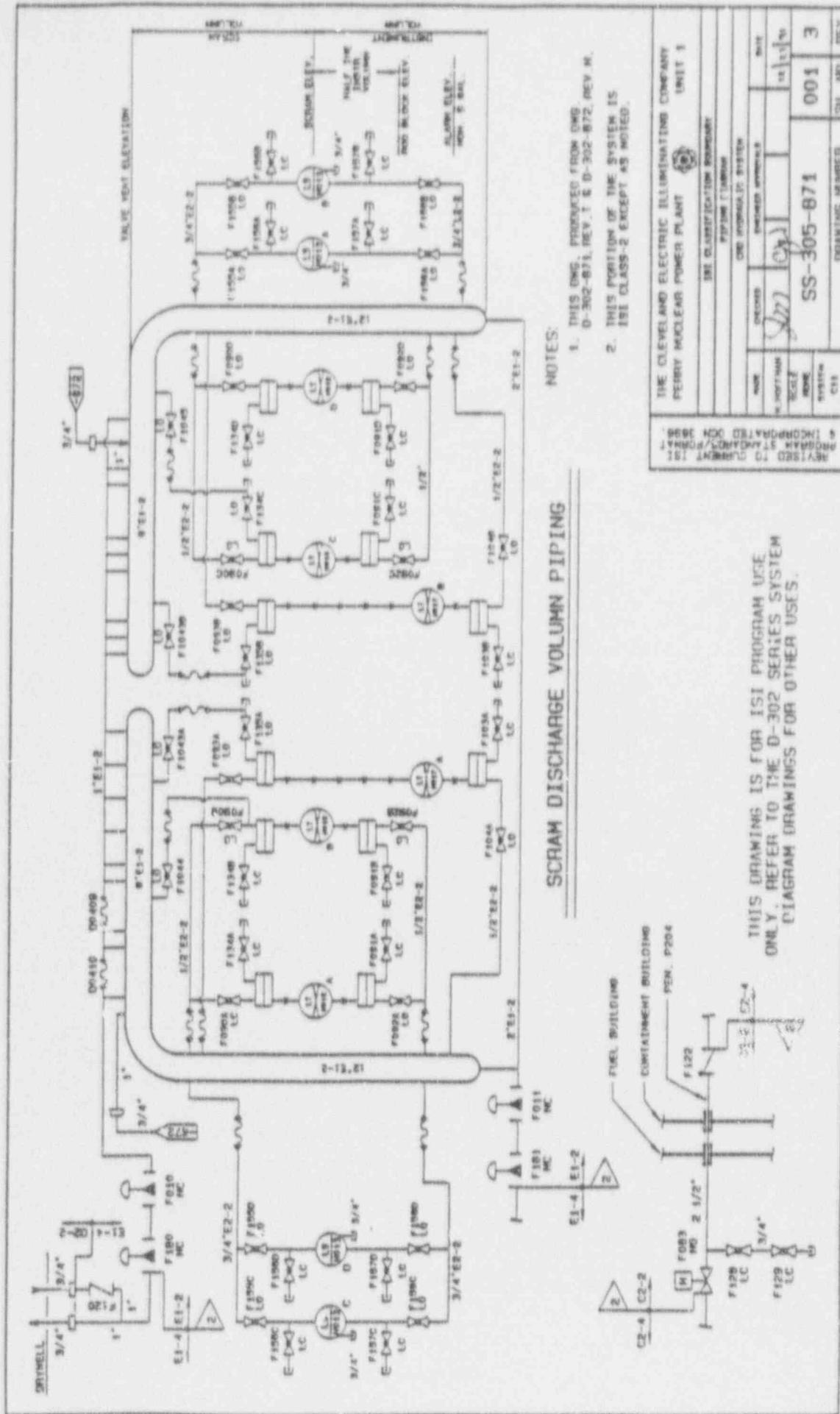
- NOTES
1. THIS DWG. PRODUCED FROM DWG. D-302-861, REV. E.
  2. ENTIRE SYSTEM IS ISI CLASS-3.

REVISIONS TO CURRENT LIST  
 PROGRAM STANDARDS/ORDINAT  
 # INCORPORATED ON 8/28/83

DATE	CHANGED	REASON	APPROVALS	DATE
SCALE	1/4" = 1'-0"			
SYSTEM	ISI			
DRAWING NUMBER	SS-305-861			
SH. NO	001			
REV	2			

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT UNIT 1  
 ISI CLASSIFICATION SYMBOL  
 PIPING SYMBOLS  
 PLANT SYMBOLS

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.



NOTES:

1. THIS ENG. PROVIDED FROM ENG. D-302-871, REV. 1 & D-302-872, REV. M.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

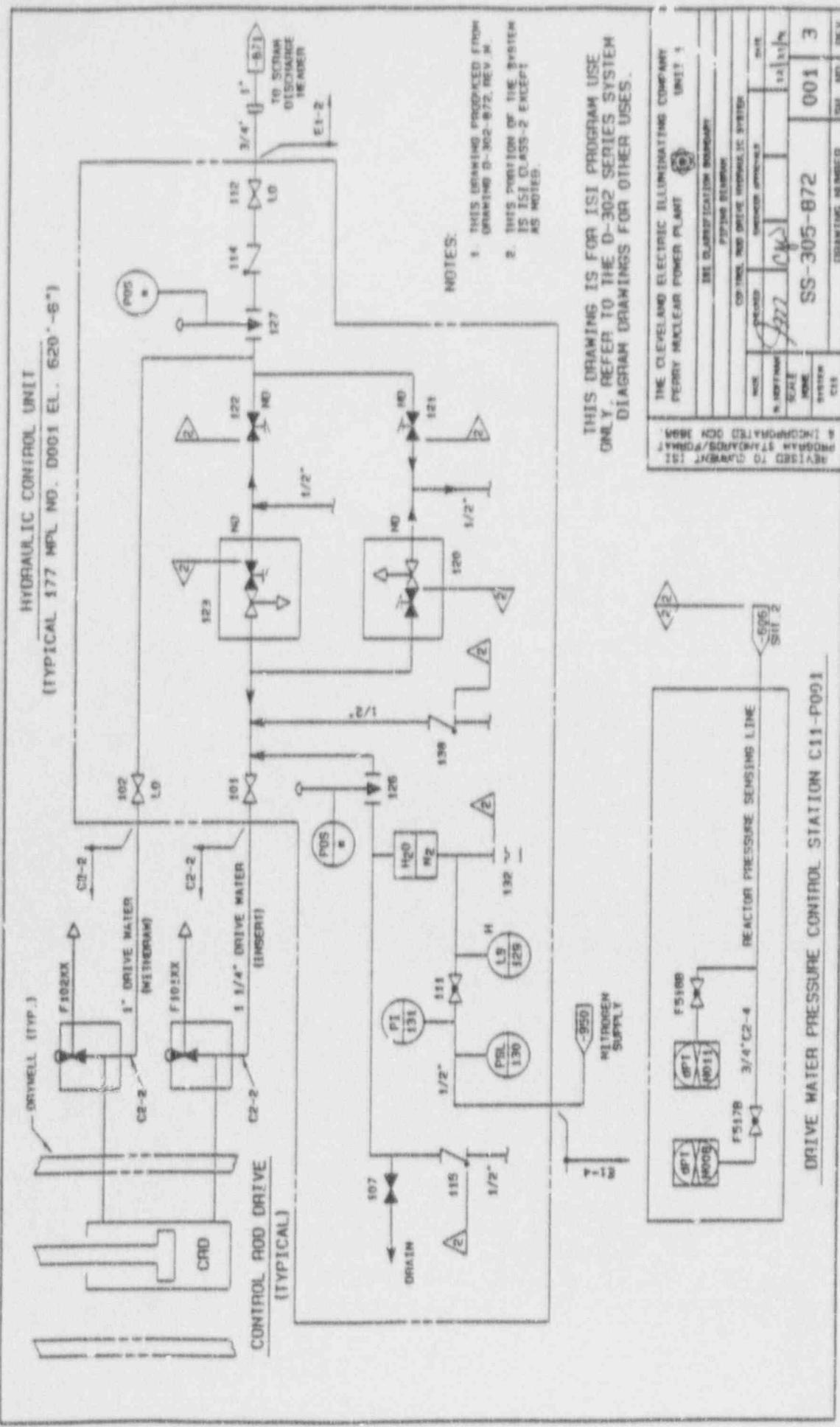
SCRAM DISCHARGE VOLUME PIPING

REVISED DRAWING		DATE	
1	10/1/68	1	10/1/68
PROGRAM		SCALE	
D-302-871		1/2" = 1'-0"	
SYSTEM		DRAWING NUMBER	
C11		SS-305-871	
		SHEET NO.	
		001	
		REV	
		3	

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 FERRY NUCLEAR POWER PLANT  
 UNIT 1  
 THE CLASSIFICATION SYMBOL  
 PIPELINE SYMBOL  
 ONE SYMBOL IN SYSTEM  
 ENGINEER SYMBOLS  
 DATE

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

HYDRAULIC CONTROL UNIT  
(TYPICAL 177 MPL NO. D001 EL. 620'-6")

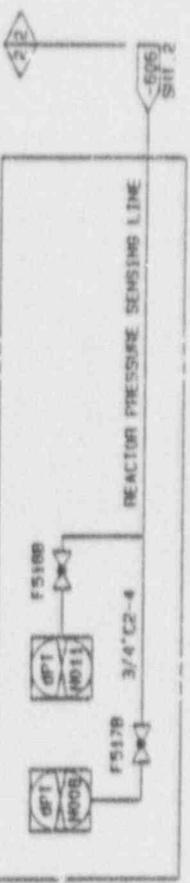


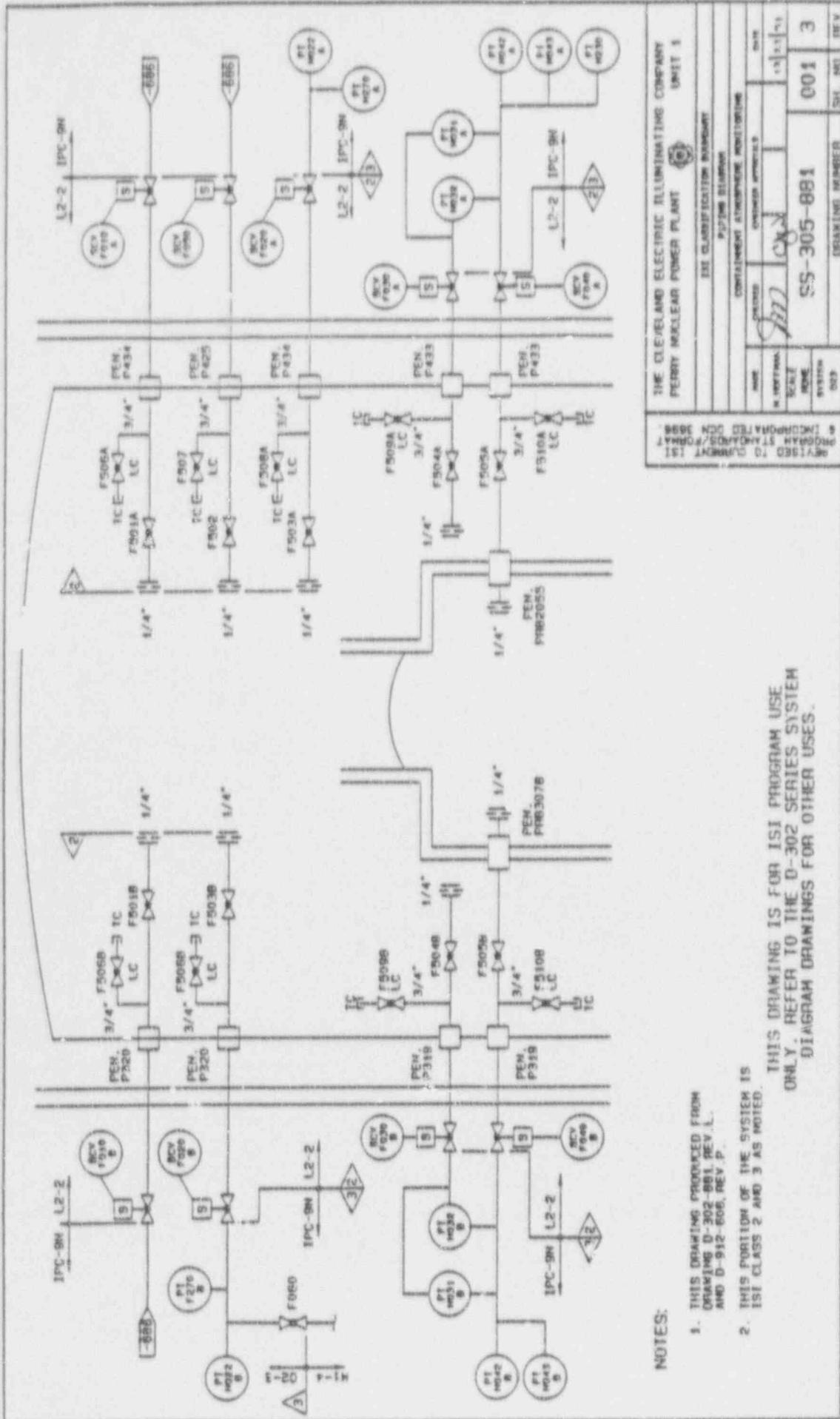
NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-872, REV. M.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS-2 EXCEPT AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1
PERRY NUCLEAR POWER PLANT		
EEL CLASSIFICATION SUMMARY		
SYSTEM DESIGN		
NO. CONTROL AND DRIVE HYDRAULIC SYSTEM	DATE	
DESIGNED BY	DESIGNED BY	
SCALE	SCALE	1/2" = 1'-0"
NO. SHEETS	NO. SHEETS	001 3
SYSTEM	SYSTEM	
CIS	CIS	
DRAWING NUMBER		SS-305-872
SHEET NO.		001
REV.		3



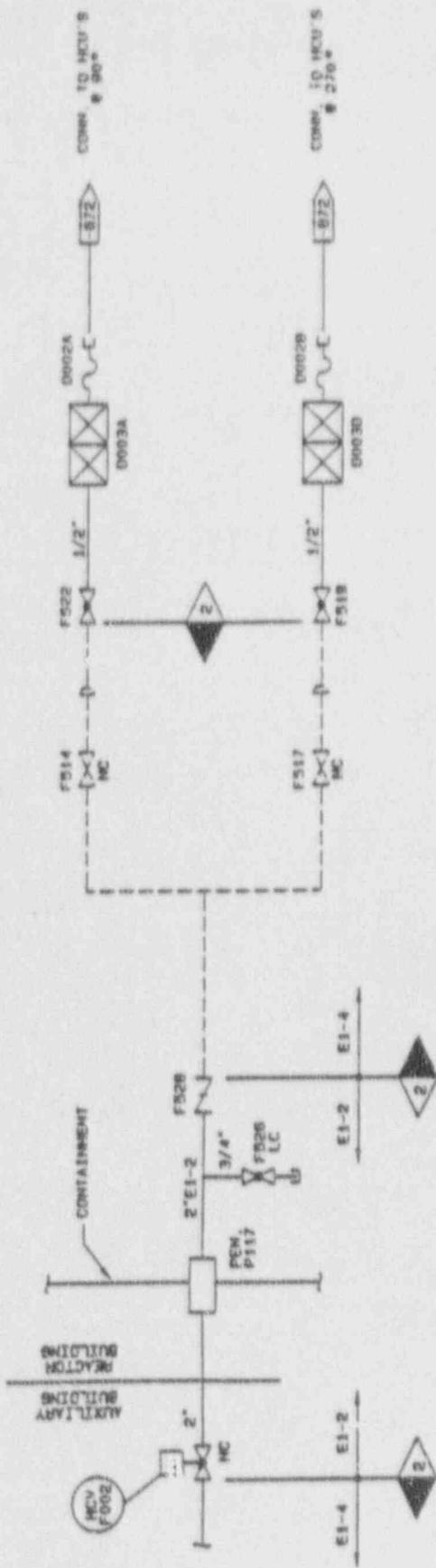


**NOTES:**

1. THIS DRAWING PRODUCED FROM DRAWING D-302-881, REV. 1, AND D-912-606, REV. P.
2. THIS PORTION OF THE SYSTEM IS ISI CLASS 2 AND 3 AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PERRY NUCLEAR POWER PLANT			
UNIT 3			
331 CLASSIFICATION BARRIERS			
PUMP ROOM			
CONTINUED AT OTHER MONITORING			
DATE	01/11/81		
DRAWN BY	[signature]		
CHECKED BY	[signature]		
DESIGNED BY			
SYSTEM			
NO. 503			
DRAWING NUMBER 881-305-SS			DRAWING NUMBER 001
			REV. 3

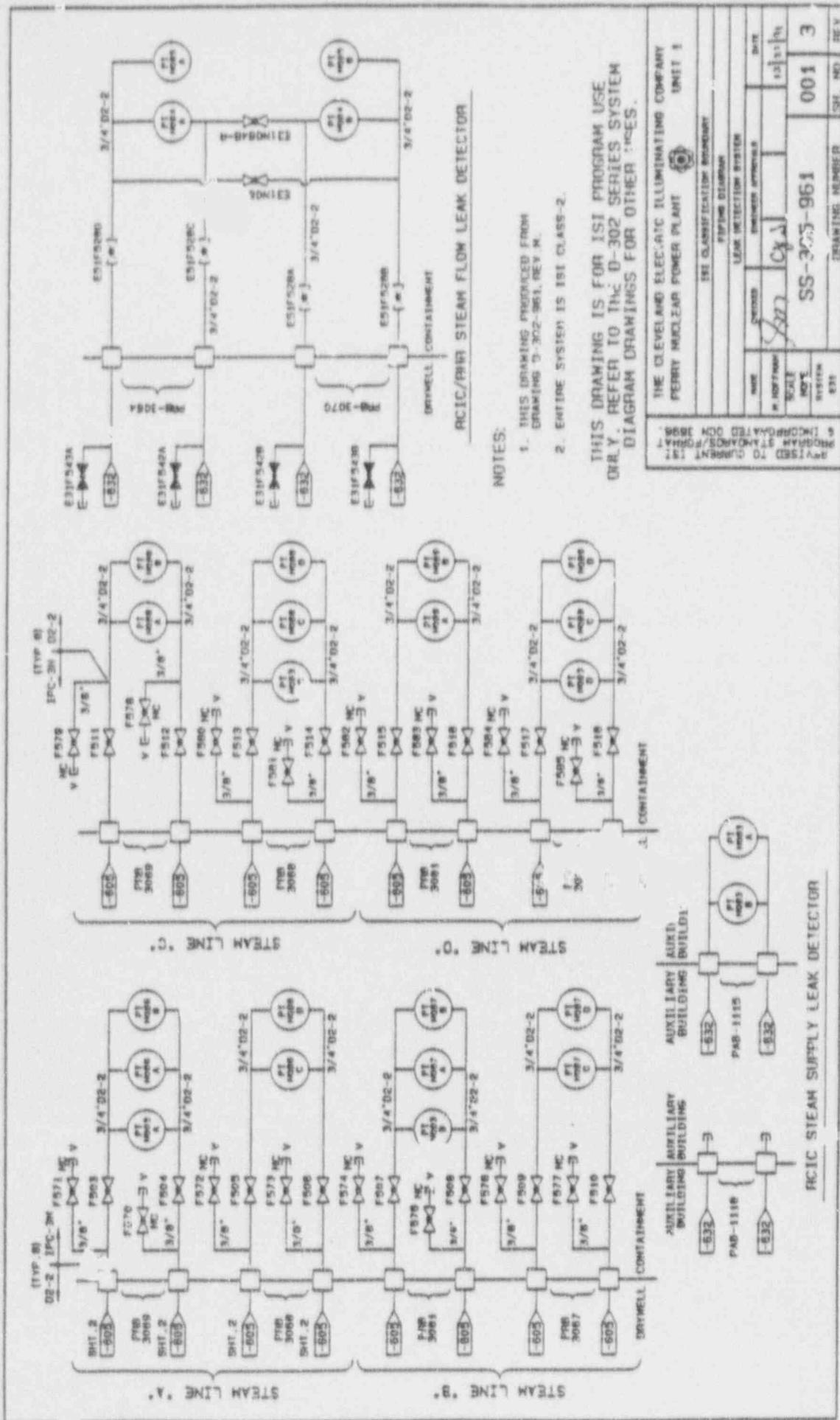


NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING 0-302-950, REV. X.
2. THIS PORTION OF THE SYSTEM REPRESENTS THE ISI CLASS-2 BOUNDARY AS NOTED.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE 0-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

REVISED TO CURRENT ISI PRACTICES/FORMAT		DATE		BY	
REPRODUCTION OF THIS DRAWING IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE PERRY NUCLEAR POWER PLANT		DATE		BY	
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		DATE		BY	
PERRY NUCLEAR POWER PLANT		DATE		BY	
UNIT 1		DATE		BY	
ISI CLASSIFICATION BOUNDARY		DATE		BY	
P2P200 BOUNDARY		DATE		BY	
REACTOR SUPPLY SYSTEM		DATE		BY	
ENCLOSURE APPROVAL		DATE		BY	
DATE		DATE		DATE	
SCALE		SCALE		SCALE	
SHEET		SHEET		SHEET	
SYSTEM		SYSTEM		SYSTEM	
PMS		PMS		PMS	
SS-305-950		001		3	
DRAWING NUMBER		SHEET NO		REV	

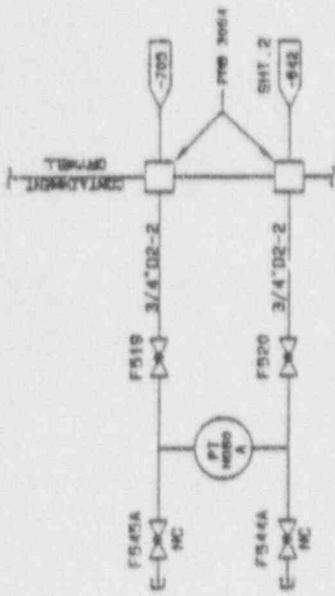


RCIC/PRR STEAM FLOW LEAK DETECTOR

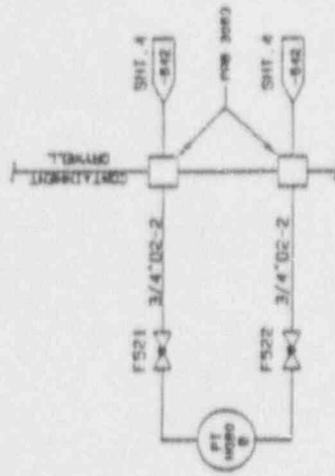
- NOTES:
1. THIS DRAWING PRODUCED FROM DRAWING D-302-961, REV. N.
  2. ENTIRE SYSTEM IS ISI CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER ICES.

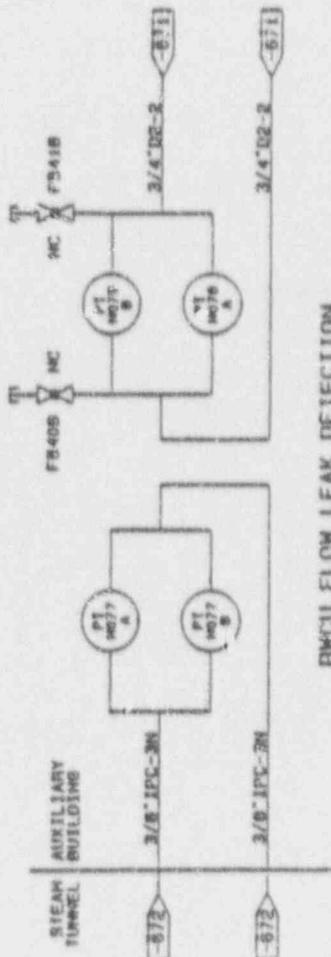
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT		LEAK DETECTION SYSTEM	
SEE CLASSIFICATION REQUIREMENT		SYSTEM DIAGRAM	
DATE	12/31/74	DR. NO.	001 3
DESIGNED BY	SS-305-961	DRAWING NUMBER	
CHECKED BY			
IN CHARGE			
NOTED			
SYSTEM			



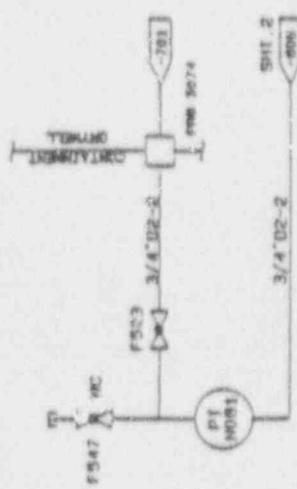
ΔP RHR "A" LPCS LEAK DETECTION



ΔP RHR "B" TO RHR "C" LINE BREAK LEAK DETECTION



RWCU FLOW LEAK DETECTION



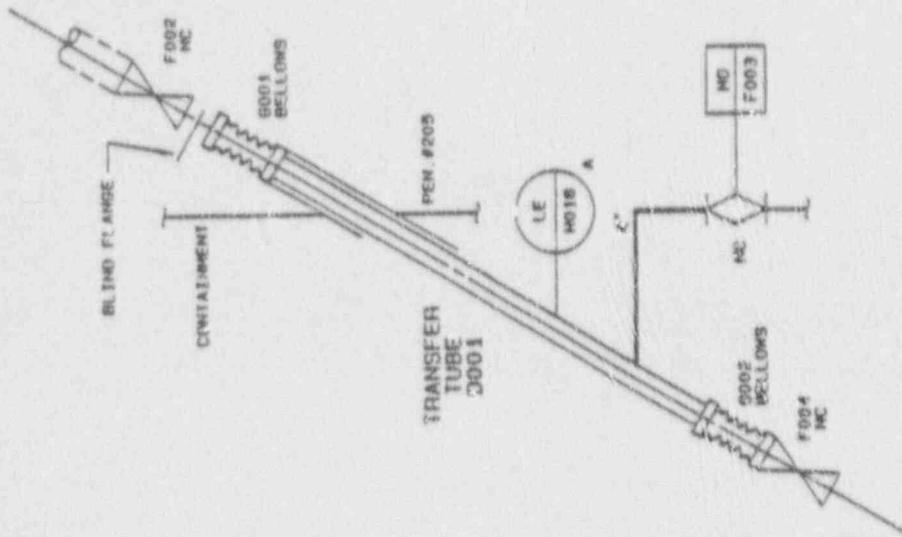
HPCS LINE BREAK LEAK DETECTOR

NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-962, REV. L.
2. ENTIRE SYSTEM S 181 CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 3	
PERRY NUCLEAR POWER PLANT		296-505-962	
ISI CLASSIFICATION SYMBOL		SS-305-962	
LEAK DETECTION SYSTEM		DRAWING NUMBER	
DATE	SCALE	REV.	REV.
11/21/71	1:1	001	3
DESIGNED BY		CHECKED BY	
DRAWN BY		APPROVED BY	
INTEGRATED DESIGN		INCORPORATED ON 05/28/88	



NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-970, REV. F.
2. ENTIRE SYSTEM IS ISI CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PERRY NUCLEAR POWER PLANT

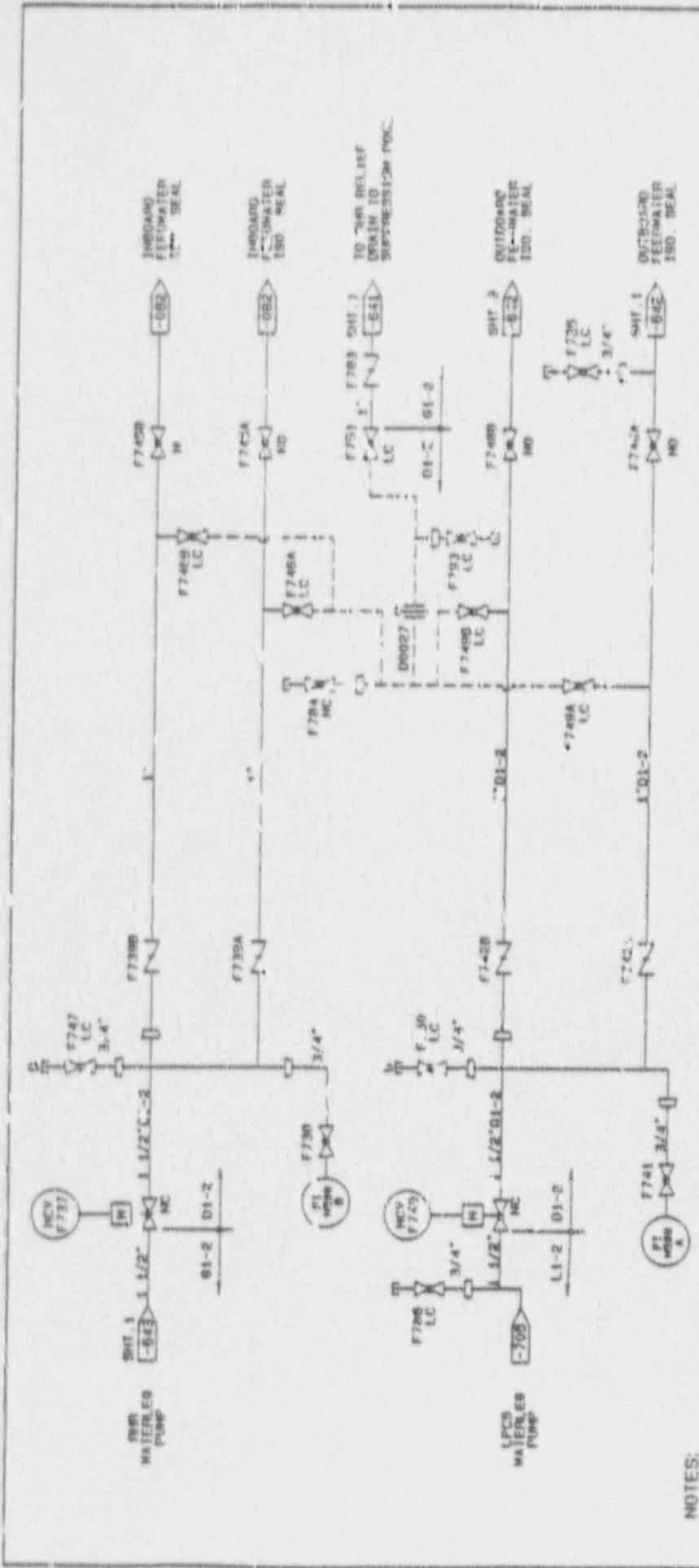
ISI CLASSIFICATION: UNCLASSIFIED

ISSUED: 12/30/70  
DRAWN: [Signature]  
CHECKED: [Signature]

SCALE: AS SHOWN  
DATE: 12/30/70

SS-305-970  
DRAWING NUMBER: 001  
REV: 3

THESE STANDARDS/NORMS ARE INCORPORATED BY REFERENCE.



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1	
PERRY NUCLEAR POWER PLANT			
ISI CLASSIFICATION DIAGRAM			
PIPING SCHEMATIC			
NO.	DATE	BY	CHK
1000	10/1/68	CH	CH
1001	10/1/68	CH	CH
1002	10/1/68	CH	CH
1003	10/1/68	CH	CH
1004	10/1/68	CH	CH
1005	10/1/68	CH	CH
1006	10/1/68	CH	CH
1007	10/1/68	CH	CH
1008	10/1/68	CH	CH
1009	10/1/68	CH	CH
1010	10/1/68	CH	CH
1011	10/1/68	CH	CH
1012	10/1/68	CH	CH
1013	10/1/68	CH	CH
1014	10/1/68	CH	CH
1015	10/1/68	CH	CH
1016	10/1/68	CH	CH
1017	10/1/68	CH	CH
1018	10/1/68	CH	CH
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1021	10/1/68	CH	CH
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1024	10/1/68	CH	CH
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1095	10/1/68	CH	CH
1096	10/1/68	CH	CH
1097	10/1/68	CH	CH
1098	10/1/68	CH	CH
1099	10/1/68	CH	CH
1100	10/1/68	CH	CH

REVISED BY: [Signature]

DATE: 10/1/68

SS-305-971

DRINKING WATER

001 3

01 01 01

NOTES:

1. THIS DRAWING PRODUCED FROM DRAWING D-302-971, REV. F.
2. ENTIRE SYSTEM IS ISI CLASS-2.

THIS DRAWING IS FOR ISI PROGRAM USE ONLY. REFER TO THE D-302 SERIES SYSTEM DIAGRAM DRAWINGS FOR OTHER USES.

2-107

SYSTEM NUMBER	DRAWING NUMBER	DESCRIPTION
B13	SS-305-006-101 THRU 112	REACTOR VESSEL AND INTERNALS SYSTEM
B21	SS-305-605-101 THRU 130	NUCLEAR BOILER SYSTEM
C33	SS-305-602-101 THRU 105	REACTOR WATER RECIRCULATION SYSTEM
C31	SS-305-871-101 THRU 105	CONTROL ROD DRIVE SYSTEM
C41	SS-305-891-101 AND 102	STANDBY LIQUID CONTROL SYSTEM
E12	SS-305-641-101 THRU 123	RESIDUAL HEAT REMOVAL SYSTEM
E12	SS-305-642-101 THRU 145	RESIDUAL HEAT REMOVAL SYSTEM
E12	SS-305-645-101 THRU 123	RESIDUAL HEAT REMOVAL SYSTEM
K21	SS-305-705-101 THRU 113	LOW PRESSURE CORE SPRAY SYSTEM
E22	SS-305-751-101	MID PRESSURE CORE SPRAY SYSTEM
E22	SS-305-355-101	HIGH PRESSURE CORE SPRAY SYSTEM
E22	SS-305-701-101 THRU 114	HIGH PRESSURE CORE SPRAY SYSTEM
E32	SS-305-341-101 THRU 104	RSIV LEAKAGE CONTROL SYSTEM
E51	SS-305-631-101 THRU 112	REACTOR CORE ISOLATION COOLING SYSTEM
E51	SS-305-632-101 THRU 105	REACTOR CORE ISOLATION COOLING SYSTEM
G33	SS-305-671-101 THRU 108	REACTOR WATER CLEAN-UP SYSTEM
G33	SS-305-672-101 THRU 103	REACTOR WATER CLEAN-UP SYSTEM
G41	SS-305-651-101 THRU 102	FUEL POOL COOLING AND CLEAN-UP SYSTEM
G41	SS-305-654-101 AND 108	FUEL POOL COOLING AND CLEAN-UP SYSTEM
G41	SS-305-655-103 THRU 113 AND 115 THRU 119	FUEL POOL COOLING AND CLEAN-UP SYSTEM
G42	SS-305-655-101, 102 & 114	SUPPRESSION POOL CLEAN-UP SYSTEM
N22	SS-305-121-101 THRU 103	MAIN HEAT EXTRACTION AND MISC. DRAINS SYSTEM
N27	SS-305-082-101 THRU 106	FEEDWATER SYSTEM
N27	SS-305-971-101 AND 102	FEEDWATER SYSTEM
P42	SS-305-621-101 THRU 113	EMERGENCY CLOSED COOLING SYSTEM
P42	SS-305-623-101 THRU 113	EMERGENCY CLOSED COOLING SYSTEM
P45	SS-305-791-101 THRU 113	EMERGENCY SERVICE WATER SYSTEM
P45	SS-305-792-101 THRU 118	EMERGENCY SERVICE WATER SYSTEM
P47	SS-305-002-101 THRU 117	CONTROL COMPLEX CHILLED WATER SYSTEM
P49	SS-305-214-101 THRU 102	EMERGENCY SERVICE WATER SCREEN WASH SYSTEM
P57	SS-305-271-101	SAFETY RELATED INSTRUMENT AIR SYSTEM

SYSTEM NUMBER	DRAWING NUMBER	DESCRIPTION
R44	SS-305-351-102 THRU 105	STANDBY DIESEL GEN. STARTING AIR SYSTEM
R45	SS-305-355-110 AND 111	STANDBY DIESEL GEN. FUEL OIL SYSTEM
P45	SS-305-356-101	STANDBY DIESEL GEN. FUEL OIL SYSTEM
R46	SS-305-354-101 THRU 106	STANDBY DIESEL GEN. JACKET WATER COOLING SYSTEM
R47	SS-305-353-101 THRU 108	STANDBY DIESEL GEN. LUBE OIL SYSTEM
R48	SS-305-355-102 THRU 103	STANDBY DIESEL GEN. EXHAUST, INTAKE, CRANKCASE SYSTEM

**SYMBOLS**

	VARIABLE (SPRING) NUMBER		GUIDE		HANGER PIPE OR EQUIPMENT
	RISED HAND		SHIMBER		WELD PIPE OR EQUIPMENT
	ANCHOR		RISED RESTRAINT		NO EXAMINATION REQUIRED
	ISI BOUNDARY FLAG	** ALL LINES SHOULD END IN ONE OF THE BELOW: - OPEN ENDED - EMBEDDED - SIZE EVENT - ISI BOUNDARY BREAK FLAG INDICATION - CONTAINED OR - BLANKED OFF OR TIE IN TO EQUIPMENT			
	WELDED ATTACHMENT				
	SUPPORT				
	HIGH ENERGY PIPE IN BREAK EXCLUDED REGION				
	INSULATED - OUTSIDE CODE REQUIREMENTS				

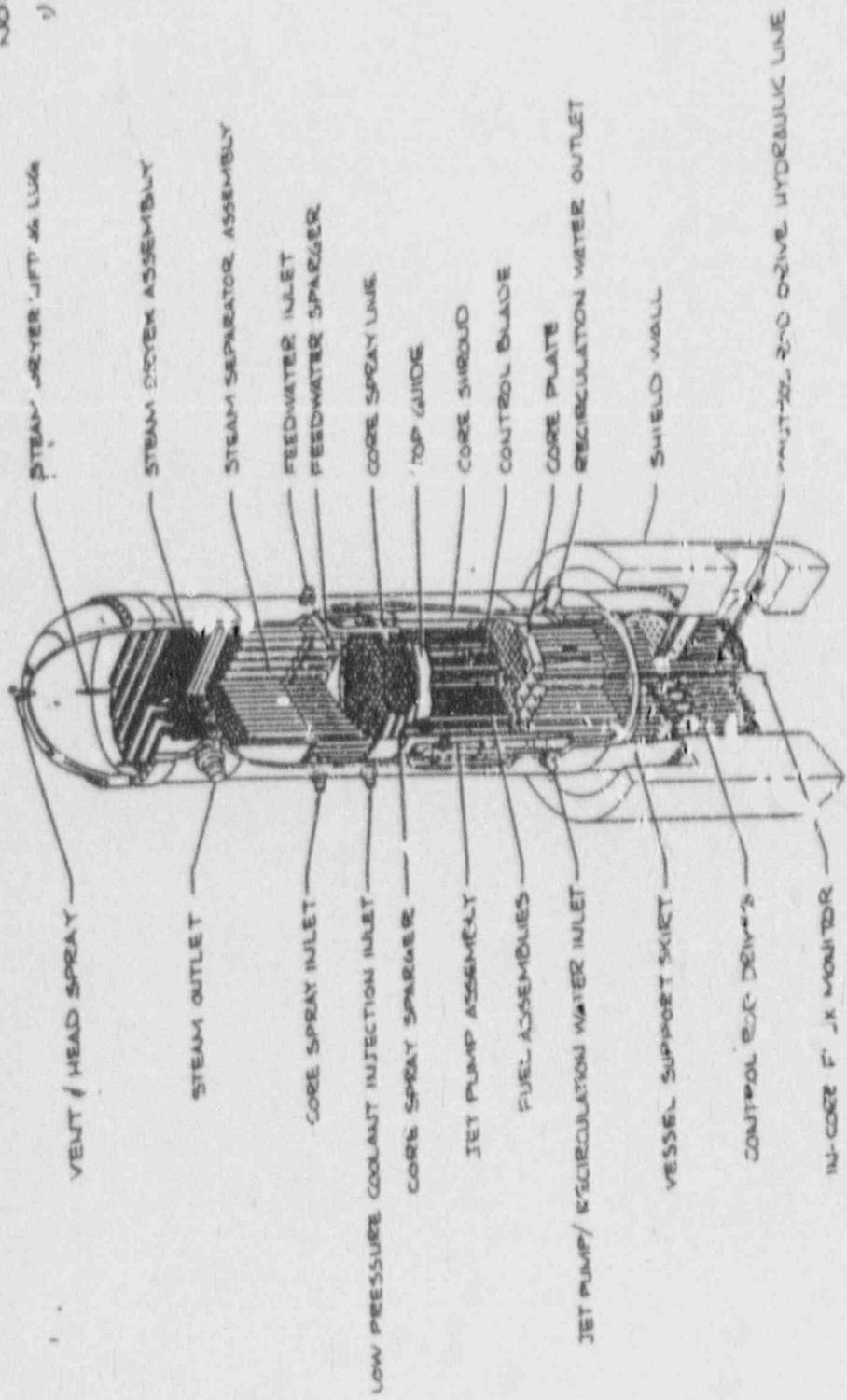
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION.

CURRENT IS NOT FOR PROGRAM USE OF DESIGN	THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT  UNITS 1 & 2			
	(SEE CLASSIFICATION SYMBOL)			
	PIPING DIMENSIONS			
	DRAWING LIST BY SYSTEM NUMBER			
	NO. CHECKED	ENGINEER APPROVAL	DATE	SIGNATURE
IS NOT FOR	SCALE	NONE	SYSTEM	NONE
SS-305-001-101				B
DRAWING NUMBER				00

Rev. 1

NOTES:

- 1) PSI 12V-001
- 151 B13-001



NOTES: THIS DRAWING IS FOR THE PROGRAM AND ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

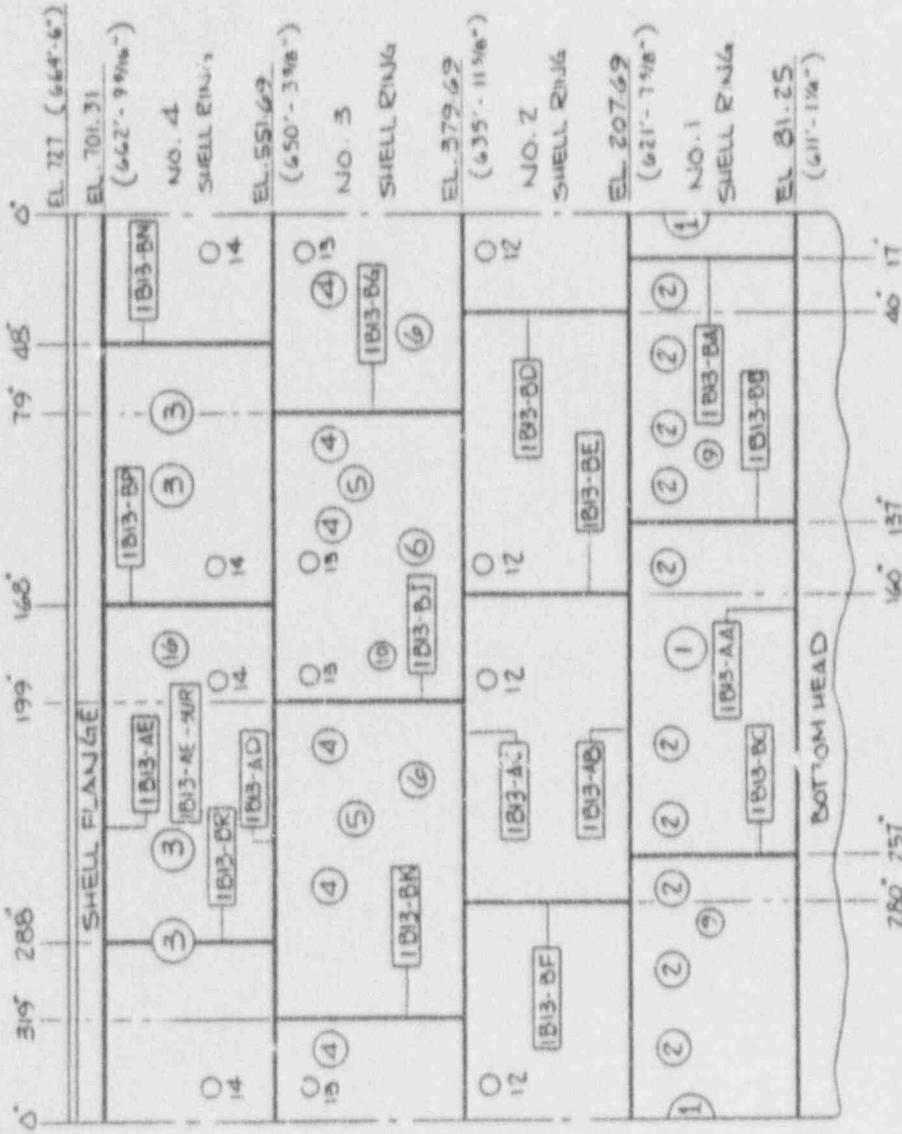
THE OLYMPIAN, ELECTRIC ILLUMINATING COMPANY	
151 CLASSIFICATION BOUNDARY	DATE: 1
REACTOR VESSEL CUTAWAY 151	
SCALE: AS SHOWN	
DESIGNED BY: [Signature]	DATE: 1/1/68
CHECKED BY: [Signature]	DATE: 1/1/68
APPROVED BY: [Signature]	DATE: 1/1/68
PROJECT NO: 55-205-006-101	
REV: A	

REVISIONS TO CURRENT STANDARD FORM	
NO.	DATE
1	22
2	20
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10

NOTES:

- 1) PSI 12V-002  
ISI-BV3-002
- 2) NOZZLE LOCATION ON REACTOR VESSEL SHELL
- 3) COI REF NO 73-C108 / 14 DWG. NO 21 REV.4,  
22 REV.5, 23 REV.4 / 24 REV.4
- 4) ELEVATIONS ARE BASED FROM THE INSIDE SURFACE OF  
THE BOTTOM HEAD. 0" VESSEL ELEVATION EQUALS  
404'. 4" PLANT ELEVATION. PLANT ELEVATIONS ARE  
SHOWN IN PARENTHESES. (ALL ELEVATIONS SHOWN ARE  
APPROXIMATE AND ARE GIVEN FOR INFORMATION ONLY.)

THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION



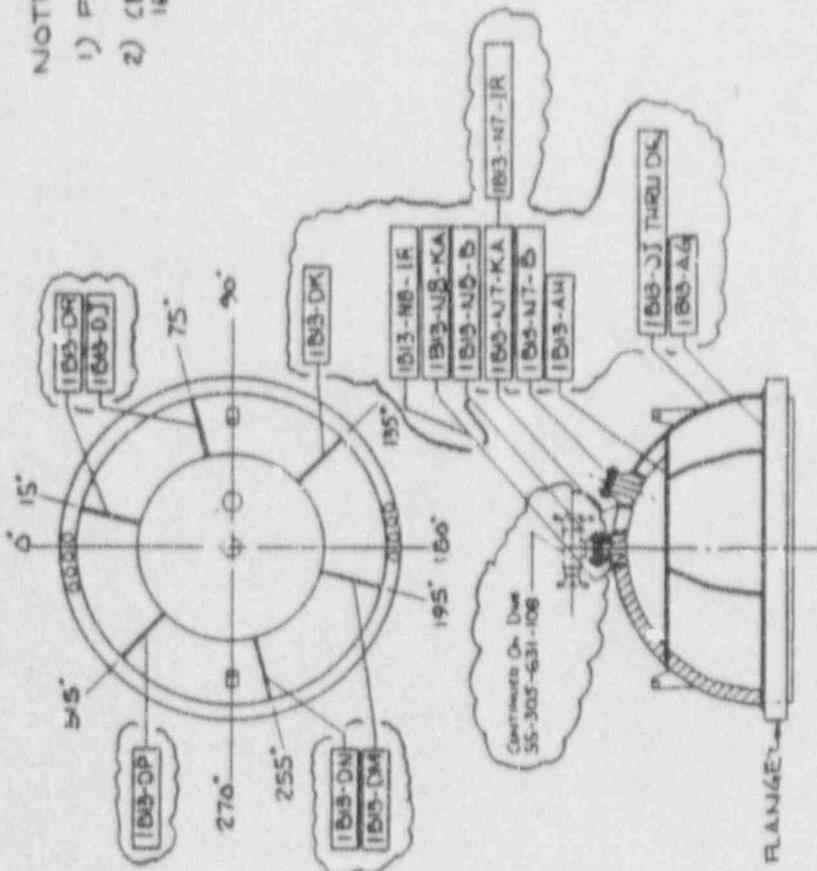
REVISION	DATE	BY	CHKD
1	8/16/92	H	M
2	8/16/92	H	M
3	8/16/92	H	M
4	8/16/92	H	M
5	8/16/92	H	M
6	8/16/92	H	M
7	8/16/92	H	M
8	8/16/92	H	M
9	8/16/92	H	M
10	8/16/92	H	M
11	8/16/92	H	M
12	8/16/92	H	M
13	8/16/92	H	M
14	8/16/92	H	M

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

THE FOLLOWING ELECTRIC ILLUMINATING EQUIPMENT PARTS LISTED ARE:	REV	DATE
12 PV	5/15/93	B13
REACTOR VESSEL SHELL		
WELD ARRANGEMENT		
WELD SPEC	Spec	N/A
WELD POSITION	1-1/8"	N/A
WELD SIZE	3/8"	N/A
WELD TYPE	45-505-006	10
WELD NUMBER	B13	

NOTES:

- 1) PSI 1-RV-0016 of ISI-B13-003
- 2) CBI REF. NO. 73-C108: DMG. NO. 166 REV. 1, 73 REV. 4 AND 77 REV. 3



NT - HEAD SPACE  
 NB - HEAD SPRAY ROCK VENT  
 KA - NOZZLE TO VESSEL WELD  
 B - BOLTING  
 1R - INNER RADIUS

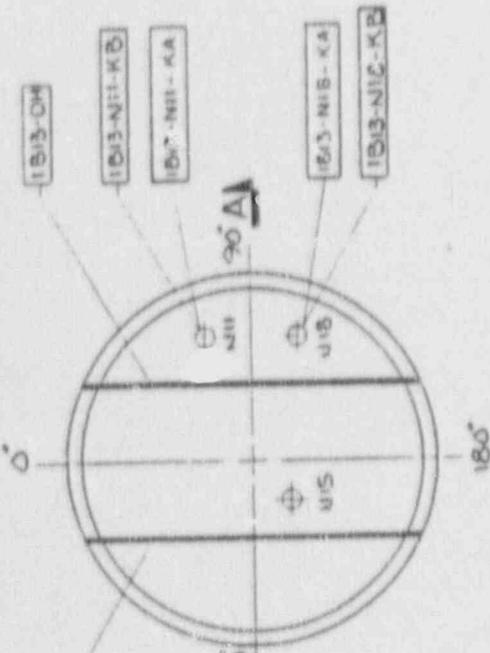
NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: PSI 1-RV-0016	Sheet: 1
ISI DMG. 5YS: B13	
REV. CLOSURE HEAD/CENTRAL	
WELD MEASUREMENT	
Scale: 1/2" = 1'-0"	MA 10/81
By: [Signature]	10/81
Check: [Signature]	10/81
Drawn: [Signature]	10/81
Project No: 55-303-006-103	A

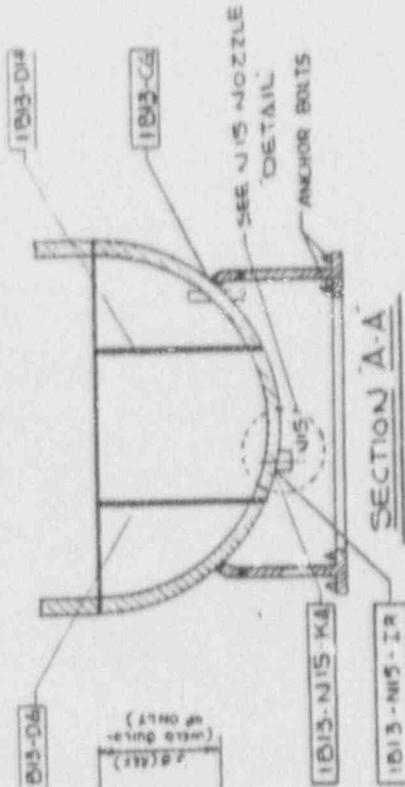
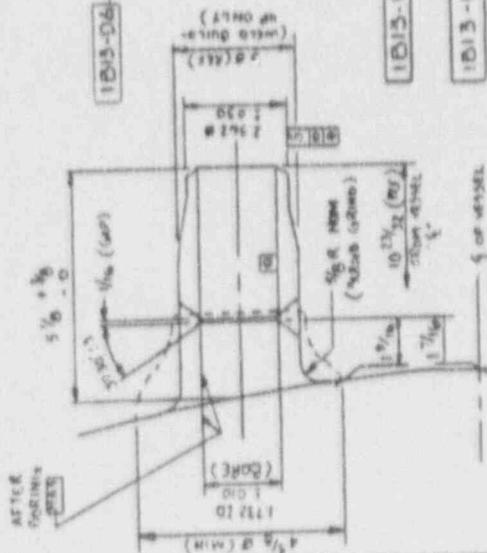
REVISED TO CURRENT IAI PROGRAM STANDARD/FORMAT	A	11	10/81	10/81	10/81
	MA	10/81	10/81	10/81	10/81
	10/81	10/81	10/81	10/81	10/81

NOTES:

- 1) PSI 1-RV-007 / 151-B13-004
- 2) CBI REF. NO. 73 C106 / K1: DWG. NO. 13 REV. 6 87 REV. 5 AND 93 REV. 2.



N11 - CORE DIFFERENTIAL PRESSURE NOZZLE  
 N15 - DRAIN NOZZLE  
 N18 - LIQUID CONTROL  
 KA - VESSEL TO NOZZLE WELD  
 KB - NOZZLE TO SAFE END WELD



WELDERS DRAWING IS FOR USE THROUGHOUT THE WELD AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

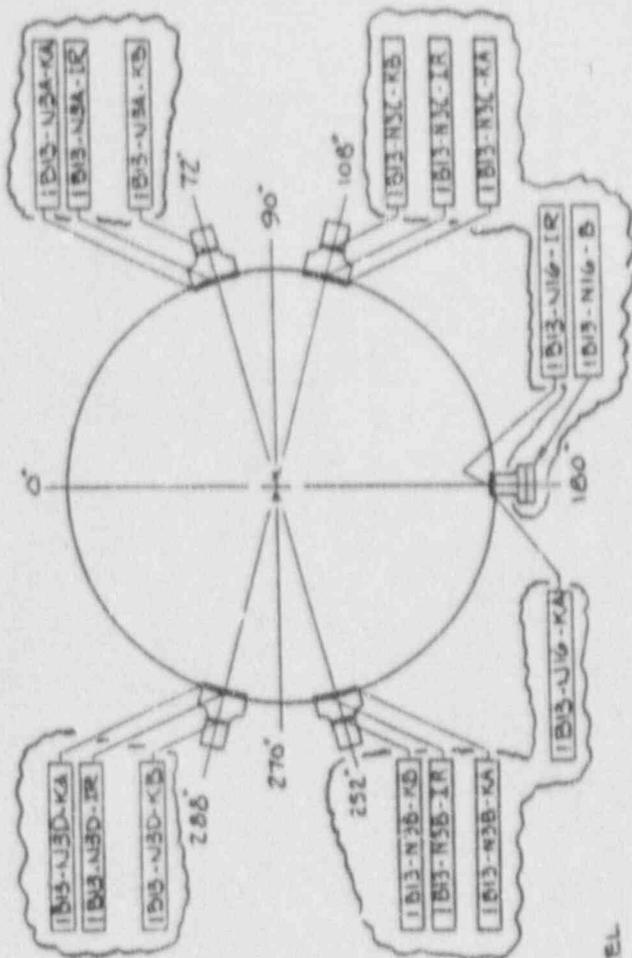
THE CHEVROLET ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	151-B13-004
DWG. NO.	151-B13
RV-BOTTOM HEAD WELD ARRANGEMENT	
DATE	11-20-06
BY	...
CHECKED	...
APPROVED	...

REV	DATE	BY	CHKD	APPROVED
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...

REVISED TO CURRENT ISE PROGRAM STANDARDS/FORAT PER DCN 3542

NOTES:

- 1) PSI 1-RV-008  
151-B13-005
- 2) CBI REF. NO. T3-C108 : DWG.  
NO. 165 REV. 1, 5B REV. 2 AND  
76 REV. 5.



N3- MAIN STEAM NOZZEL  
 N16- VIBRATION NOZZEL  
 KA- NOZZEL TO VESSEL WELD  
 KB- NOZZEL TO SAFE END WELD  
 IR- INNER RADIUS  
 B - BOLTING

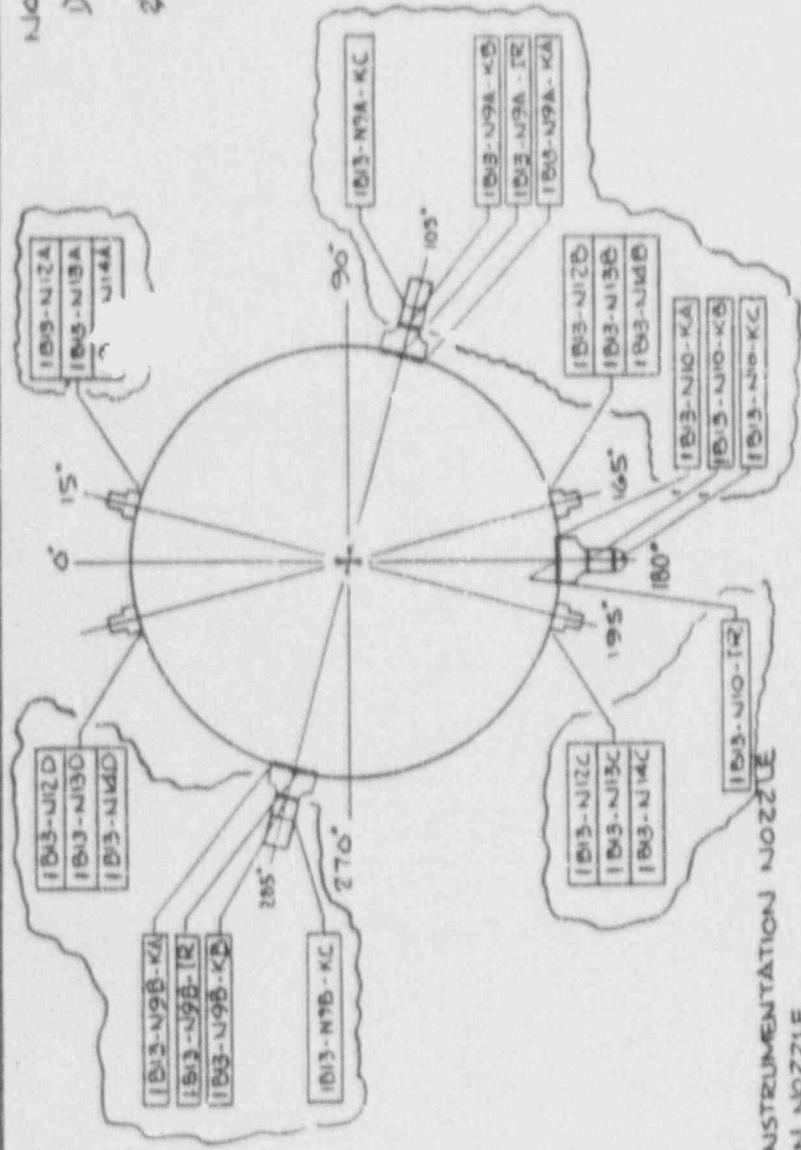
INTERFERS DRAWING. 1/2 PER  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	PSI 151-B13-005
DWG. NO.	513-013
PSI-MAIN STEAM AND VIBRATION	
VESSEL WELD APPROXIMATE	
DATE	APR 1978
BY	W. H. HARRIS
CHECKED	H. H. HARRIS
APPROVED	H. H. HARRIS
SCALE	AS SHOWN
REV.	A

REVISED TO CORRECT ISI PROGRAM STANDARD/TONAGE			
NO.	DATE	BY	CHK.
1	12-80	H. H. HARRIS	W. H. HARRIS
2	12-80	H. H. HARRIS	W. H. HARRIS

**NOTES:**

- 1) PSI 1-EV-009  
LSI-B13-006
- 2) CBI REF. NO. 73-C10B AND 14:  
DWG. NO. 165 REV. 1, 65 REV. 5  
AND T9 REV. 4.



INSTRUMENTS MOUNTING IS PER  
ISI PROGRAM FOR ONLY AND  
SHALL NOT BE USED FOR  
PUMP/INSTALLATION

N9 - JET PUMP INSTRUMENTATION NOZZLE  
N10 - CRO RETURN NOZZLE  
N12, N13, N14 - INSTRUMENTATION NOZZLE  
KA - NOZZLE TO VESSEL WELD  
KB - NOZZLE TO SAFE END WELD  
KC - NOZZLE SAFE END TO CAP WELD  
IR - INNER RADIUS

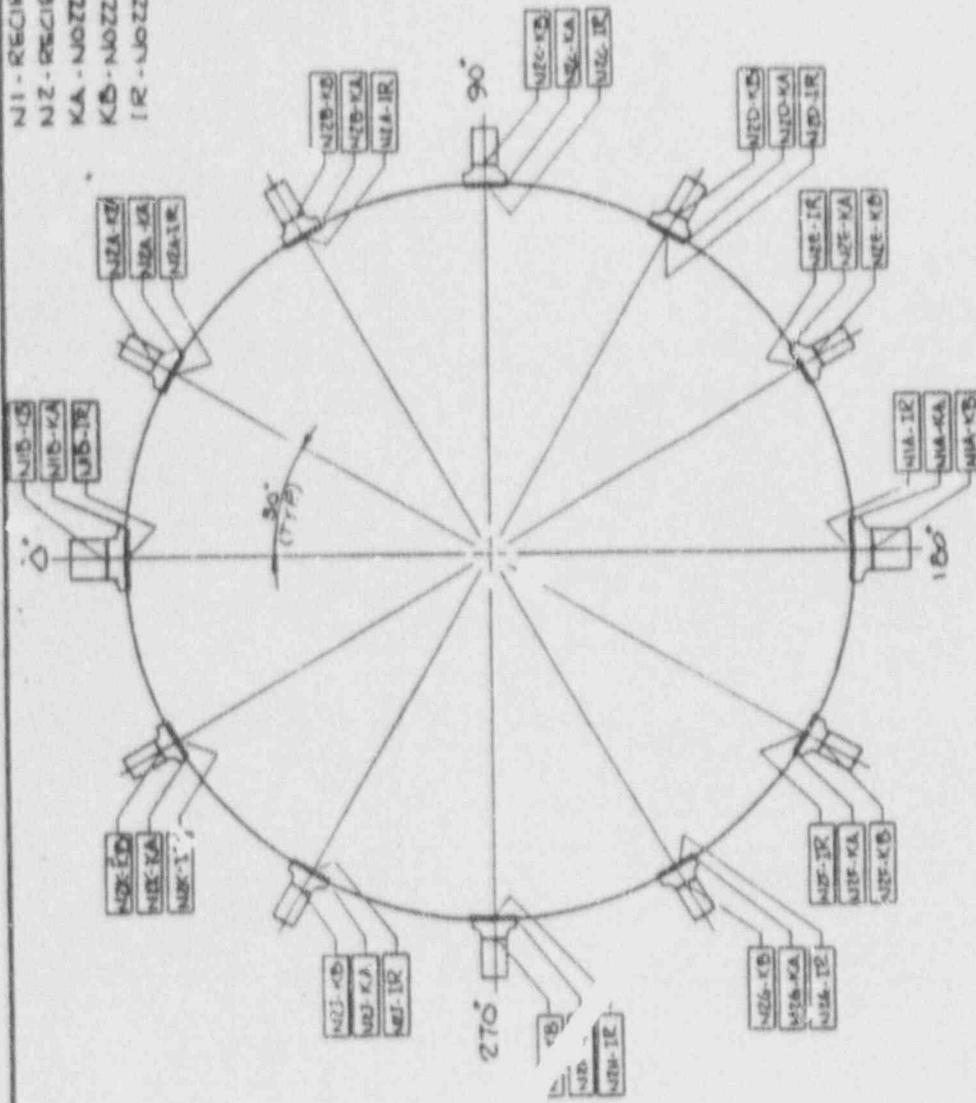
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part No.	151 DWG/6
Quantity	575: 013
BY JET PUMP AND CRO RETURN	
NOZZLE WELD ARRANGEMENT	
Scale	1/4" = 1'-0"
Drawn by	JR
Checked by	MR
Approved by	MR
Date	11-20-55
Sheet No.	106
Project No.	106-106
Rev.	A

APPROVED TO CONSENT	DATE	BY
STANDARD FORMAT		
ISI PROGRAM		

N1 - RECIRC. OUTLET NOZZLE  
 N2 - RECIRC. INLET NOZZLE  
 KA - NOZZLE TO VESSEL WELD  
 KB - NOZZLE TO SAFE END WELD  
 IR - NOZZLE INNER RADIUS

**NOTES:**

- 1) PSI 1-RV-003 / 151-B13-007
- 2) ALL WELD PER FIX (1013)
- 3) CBI REF NO. 73-C108 AND 14 : DWG. NO. 165 REV. 1, 51 REV. 3 AND 55 REV. 4



INTERFACES DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE DEVELOPER ELECTRIC MANUFACTURING COMPANY	
PROJECT NUMBER	PSI 1
DWG. NO.	55-B13
REV.	RECIRC. NOZZLE
WELD ARRANGEMENT	
DATE	12/11/80
BY	M/LL
CHECKED	M/LL
APPROVED	M/LL
SCALE	AS SHOWN
PROJECT NO.	55-505-006-107 A
REV.	01/13

REV.	DATE	BY	REASON
A	12/11/80	M/LL	REVISED TO CURRENT STANDARD FORMAT

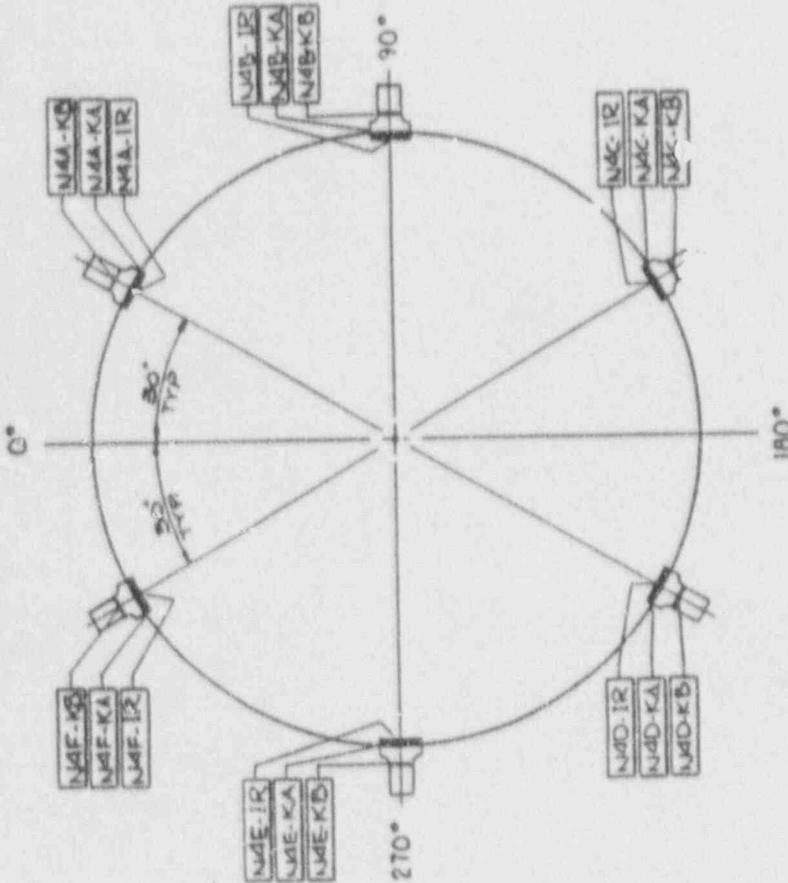
N4 - FEEDWATER NOZZLE  
 KA - NOZZLE TO VESSEL WELD  
 KB - NOZZLE TO SAFE END WELD

IR - INNER RADIUS

**NOTES:**

- 1) PSI 1-RV-004 & 1S1-B13-008
- 2) CBI REF NO: T3-C108 AND 14: DWG. NO. 165 REV. 1 AND 62 REV. 4
- 3) ALL WELDS PRECIX 1B13.

NOTES: DRAWING IS FOR  
 THE PROGRAM FOR WELD AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION



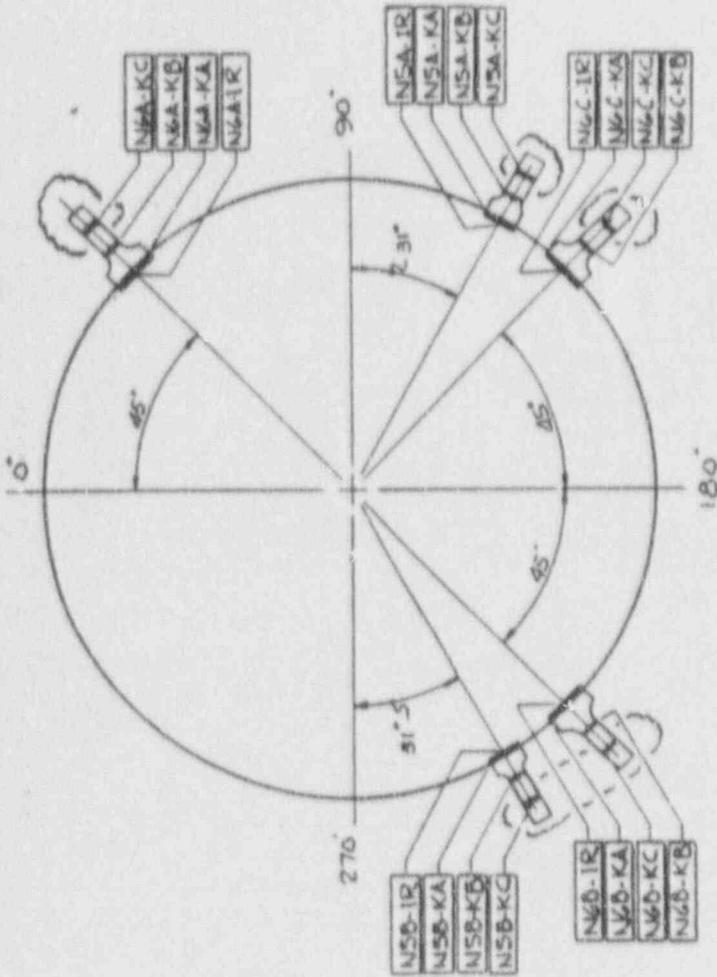
THE CLYDEMAN ELECTRIC ILLUMINATING COMPANY Perry Nuclear Power Plant		UNIT 1
151 DWG	SY: D13	
REV. FEEDWATER NOZZLE WELD ARRANGEMENT		
DATE	BY	CHK
11/20/80	H/W	J/L
REV	BY	CHK
1	11/20/80	J/L
2	11/20/80	J/L
3	11/20/80	J/L
4	11/20/80	J/L
5	11/20/80	J/L
6	11/20/80	J/L
7	11/20/80	J/L
8	11/20/80	J/L
9	11/20/80	J/L
10	11/20/80	J/L
11	11/20/80	J/L
12	11/20/80	J/L

REVISED TO CURRENT 151 PROGRAM STANDARD/FORMAT
A 11 M 11/20/80 H/W
11/20/80 H/W

N5 - CORE SPRAY NOZZLE  
 N6 - RWR NOZZLE  
 KA - NOZZLE TO VESSEL WELD  
 KB - NOZZLE TO SAFE END WELD  
 KC - SAFE END TO SAFE END EXTENSION WELD  
 IR - INNER RADIUS

NOTES:

- 1) PSI 1-EV-005 / 151-B13-009
- 2) ALL WELDS NUMBERS PER IAS 1B13.
- 3) CBI REF. NO. 73-C108 AND 14: DWG. NO. 165 REV. 1, 44 REV. 4 AND TO REV. 3.



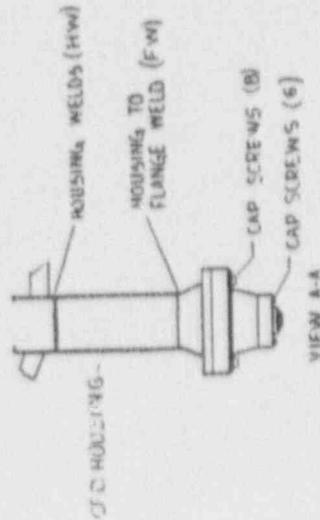
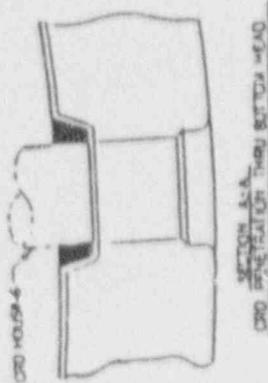
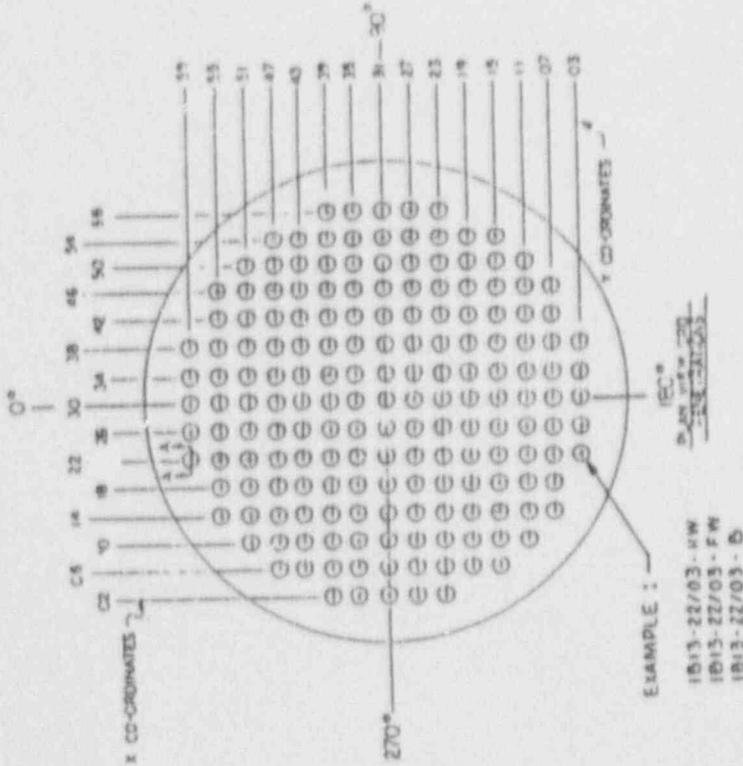
NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Party Number	Plant Unit
151 DWG.	5YS: D13
RV CORE SPRAY / RWR NOZZLES	
WELD ARRANGEMENT	
NO. 1	NO. 2
NO. 3	NO. 4
NO. 5	NO. 6
NO. 7	NO. 8
NO. 9	NO. 10
NO. 11	NO. 12
NO. 13	NO. 14
NO. 15	NO. 16
NO. 17	NO. 18
NO. 19	NO. 20
NO. 21	NO. 22
NO. 23	NO. 24
NO. 25	NO. 26
NO. 27	NO. 28
NO. 29	NO. 30
NO. 31	NO. 32
NO. 33	NO. 34
NO. 35	NO. 36
NO. 37	NO. 38
NO. 39	NO. 40
NO. 41	NO. 42
NO. 43	NO. 44
NO. 45	NO. 46
NO. 47	NO. 48
NO. 49	NO. 50
NO. 51	NO. 52
NO. 53	NO. 54
NO. 55	NO. 56
NO. 57	NO. 58
NO. 59	NO. 60
NO. 61	NO. 62
NO. 63	NO. 64
NO. 65	NO. 66
NO. 67	NO. 68
NO. 69	NO. 70
NO. 71	NO. 72
NO. 73	NO. 74
NO. 75	NO. 76
NO. 77	NO. 78
NO. 79	NO. 80
NO. 81	NO. 82
NO. 83	NO. 84
NO. 85	NO. 86
NO. 87	NO. 88
NO. 89	NO. 90
NO. 91	NO. 92
NO. 93	NO. 94
NO. 95	NO. 96
NO. 97	NO. 98
NO. 99	NO. 100
NO. 101	NO. 102
NO. 103	NO. 104
NO. 105	NO. 106
NO. 107	NO. 108
NO. 109	NO. 110
NO. 111	NO. 112
NO. 113	NO. 114
NO. 115	NO. 116
NO. 117	NO. 118
NO. 119	NO. 120
NO. 121	NO. 122
NO. 123	NO. 124
NO. 125	NO. 126
NO. 127	NO. 128
NO. 129	NO. 130
NO. 131	NO. 132
NO. 133	NO. 134
NO. 135	NO. 136
NO. 137	NO. 138
NO. 139	NO. 140
NO. 141	NO. 142
NO. 143	NO. 144
NO. 145	NO. 146
NO. 147	NO. 148
NO. 149	NO. 150
NO. 151	NO. 152
NO. 153	NO. 154
NO. 155	NO. 156
NO. 157	NO. 158
NO. 159	NO. 160
NO. 161	NO. 162
NO. 163	NO. 164
NO. 165	NO. 166
NO. 167	NO. 168
NO. 169	NO. 170
NO. 171	NO. 172
NO. 173	NO. 174
NO. 175	NO. 176
NO. 177	NO. 178
NO. 179	NO. 180
NO. 181	NO. 182
NO. 183	NO. 184
NO. 185	NO. 186
NO. 187	NO. 188
NO. 189	NO. 190
NO. 191	NO. 192
NO. 193	NO. 194
NO. 195	NO. 196
NO. 197	NO. 198
NO. 199	NO. 200

REV. DATE	BY	CHKD	DATE
A	12	H	10
UNIFIED TO CONFORM IAS PROGRAM STANDARDS/FORMAT			

NOTES:

- 1) PSI 1-RV-010  
151-B13-010
- 2) CSI REF. NO. 13-C108 AND 14-DWG. NO. 14 REV. 3 15 REV. 3 AND 16 REV. 3
- 3) GE DRAWING NO. 76TE957922D124
- 4) EXAMINATION ID. NO.'S CONSIST OF THE PREFIX 1B13 WITH THE X,Y COORDINATE DESIGNATION FOLLOWED BY THE LETTER(S) "HW" FOR THE HOUSING WELDS "FW" FOR THE FLANGE WELDS AND "B" FOR THE BOLTING (SEE EXAMPLE) AND THE PEN-ETRATION WELDS ARE IDENTIFIED COLLECTIVELY AS "1-B13-CRD-N2."



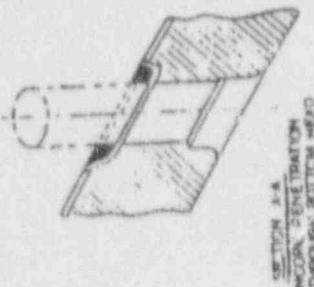
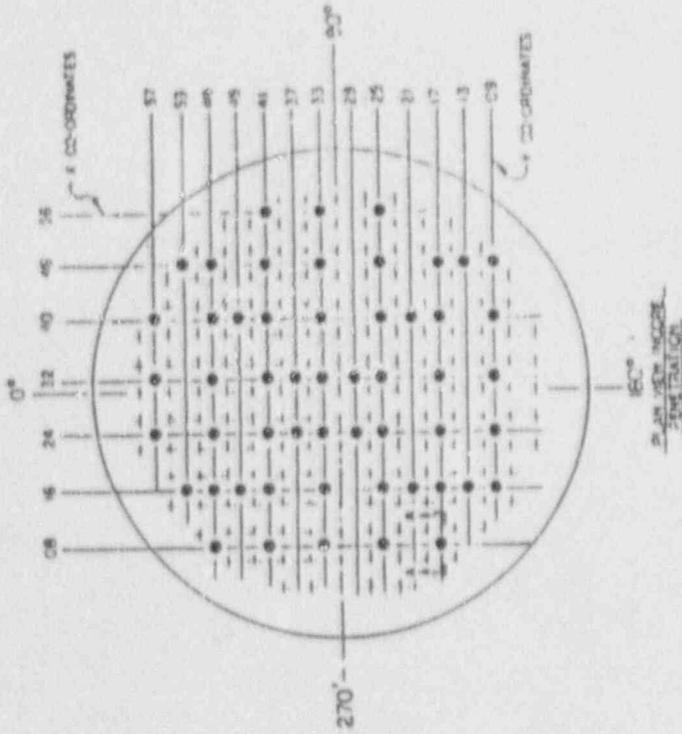
NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC MANUFACTURING COMPANY	
Part Number	Part Name
151 DWG	SYS. B13
RV-CRD BOLTING AND WELD ARRANGEMENT	
REV	DATE
1	11/11/78
2	11/11/78
3	11/11/78
4	11/11/78
5	11/11/78
6	11/11/78
7	11/11/78
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51	11/11/78
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53	11/11/78
54	11/11/78
55	11/11/78
56	11/11/78
57	11/11/78
58	11/11/78
59	11/11/78

REV	DATE	BY	CHKD	APPV
1	11/11/78	JL	JL	
2	11/11/78	JL	JL	
3	11/11/78	JL	JL	
4	11/11/78	JL	JL	
5	11/11/78	JL	JL	
6	11/11/78	JL	JL	
7	11/11/78	JL	JL	
8	11/11/78	JL	JL	
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54	11/11/78	JL	JL	
55	11/11/78	JL	JL	
56	11/11/78	JL	JL	
57	11/11/78	JL	JL	
58	11/11/78	JL	JL	
59	11/11/78	JL	JL	

NOTES:

- 1) PSI 1-RV-012  
151-B13-011
- 2) CBI REF NO. 73 C108 JV-2  
DWG. NO. 14 REV. 3 AND 16  
REV. 3
- 3) THE EXAMINATION I.D. NUMBER  
FOR THE PENETRATION WELDS  
(IDENTIFIED COLLECTIVELY) IS  
1-B13-ICP-N2.



THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Sheet
151 DWG.	SYS. B13
BY: BOTTOM HEAD HEADS METAL WELD	
WELD ARRANGEMENT	
Scale	PER N/A
Proj. No.	1-10-111
Rev.	N/A
Drawn	55-305-006-111
Checked	2/3
Approved	D

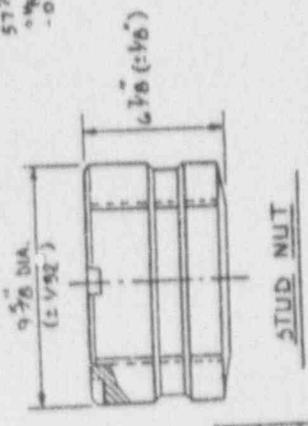
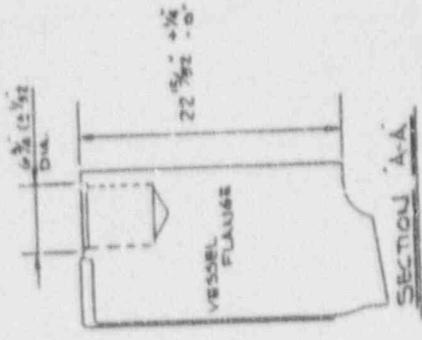
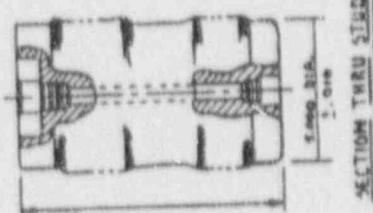
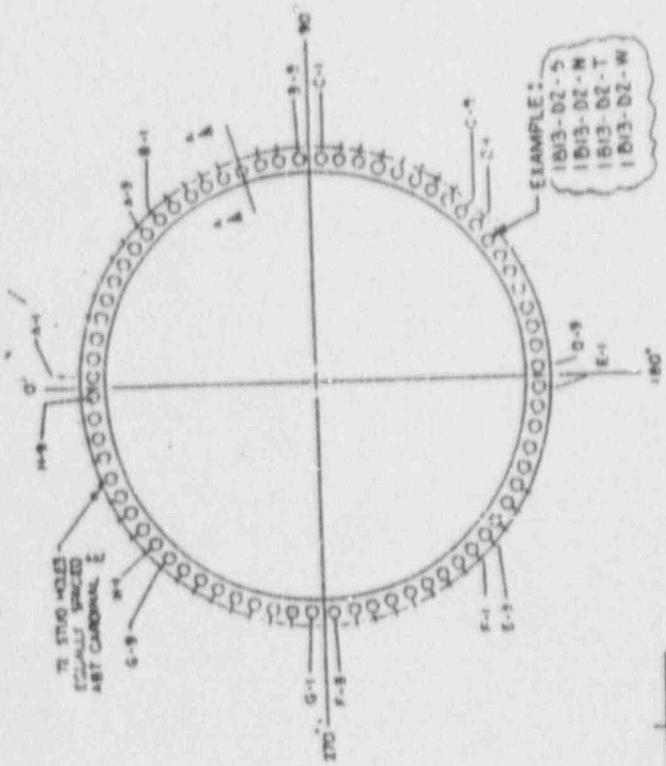
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DYN 3542	B 12 M H M	DATE 11/10	BY J H M
---	------------------------	---------------	-------------------

NOTES:

- 1) P51 1-RFV-013, 14, 15 AND 16.  
151-1513-013, 14, 15 AND 16.
- 2) CBI REF NO. 75 C108/142  
DWG. NO. 28 REV. 4, 15 REV. 3,  
36 REV. 1 AND 39 REV. 2.
- 3) EXAMINATION ID. NO.'S CONSIST OF THE PREFIX 1813 AND THEN THE STUD HOLE NUMBER FOLLOWED BY THE LETTER "S" FOR STUD EXAMS, "M" FOR NUT EXAMS, "T" FOR THREAD EXAMS AND "W" FOR WASHER EXAMS. (SEE EXAMPLE)

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSPECTION

REV. AND TO CURRENT		181 PROGRAM		STANDARD/FORMAT	
REV.	DATE	BY	CHKD.	NO.	DATE
A					
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY HEAVY METALS PLANT SHEET 1 151 DWG. SITS: D13 REV. VESSEL FLANGE LIGAMENT DATE: 5-1-55 DRAWN BY: M/A CHECKED BY: M/A APPROVED BY: M/A PROJECT NO.: 55-305-006-112 SHEET NO.: 1/3					



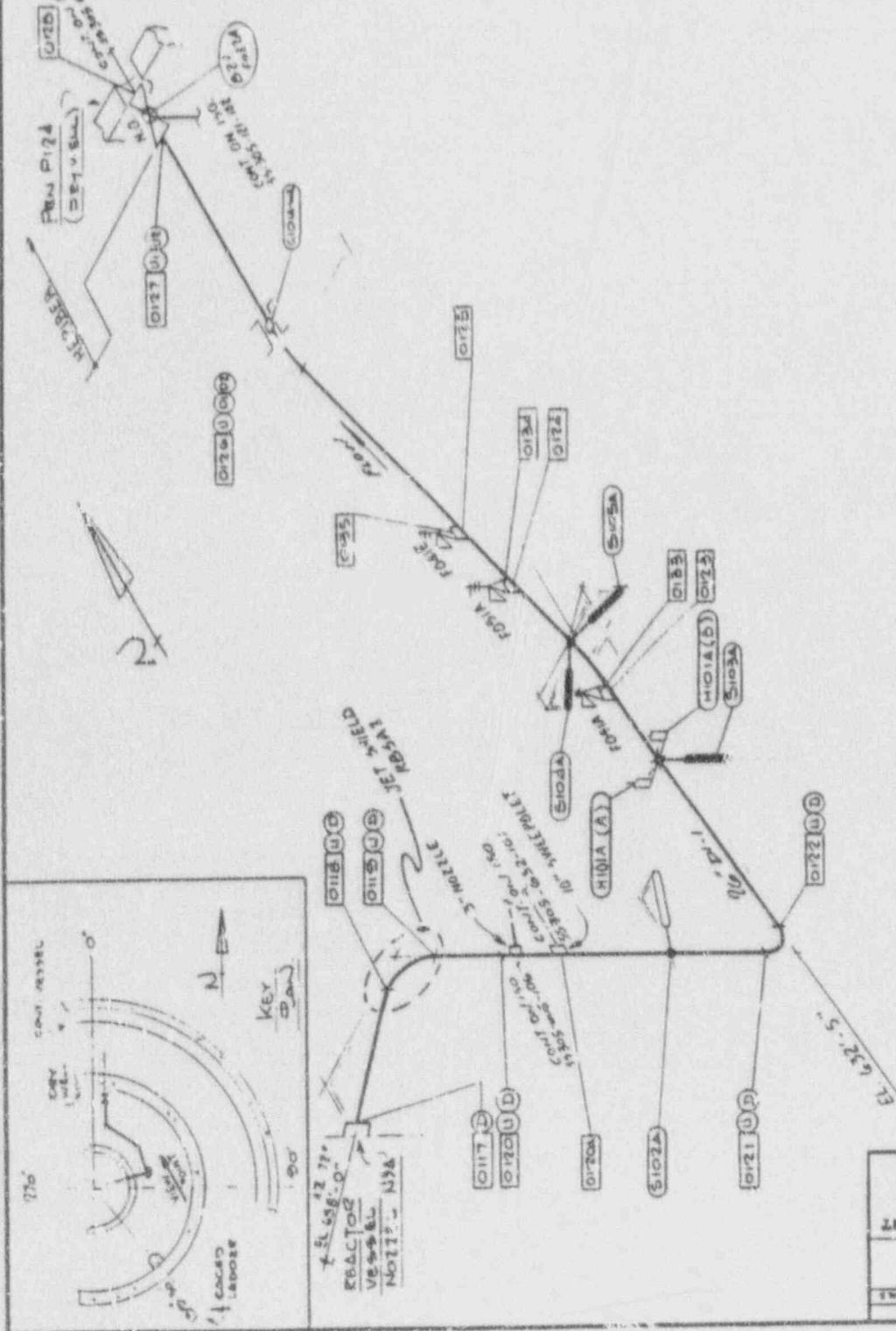
THROUGH	DRG	REV	DATE	BY

NOTES -  
 1. ALL PIPING ON THIS CLASS I  
 2. PSI 06.01  
 3. RELIEF VALVES:  
 1521-F041A  
 1521-F041E  
 1521-F051A

REC 1346  
 GE DMB-705E-445  
 D-204-004

NOTES: DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

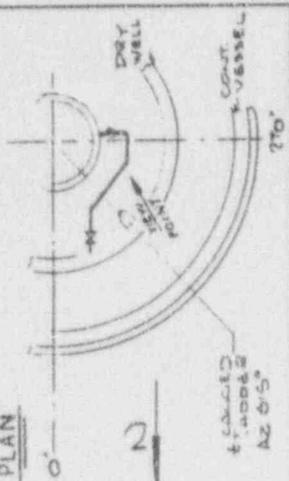
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project: Nuclear Power Plant	Sheet: 11
151 PIPING 150 SYS 021	
MAIN STEAM LOOP A	
REACTOR BADC EL 610.1	
DATE: 1/18/61	BY: JAK
SCALE: 1/4" = 1'-0"	REVISION: N/A
PROJECT NO: 55305-605-101	ISSUE NO: 1
DRAWN BY: JAK	CHECKED BY: JAK
DATE: 1/18/61	BY: JAK



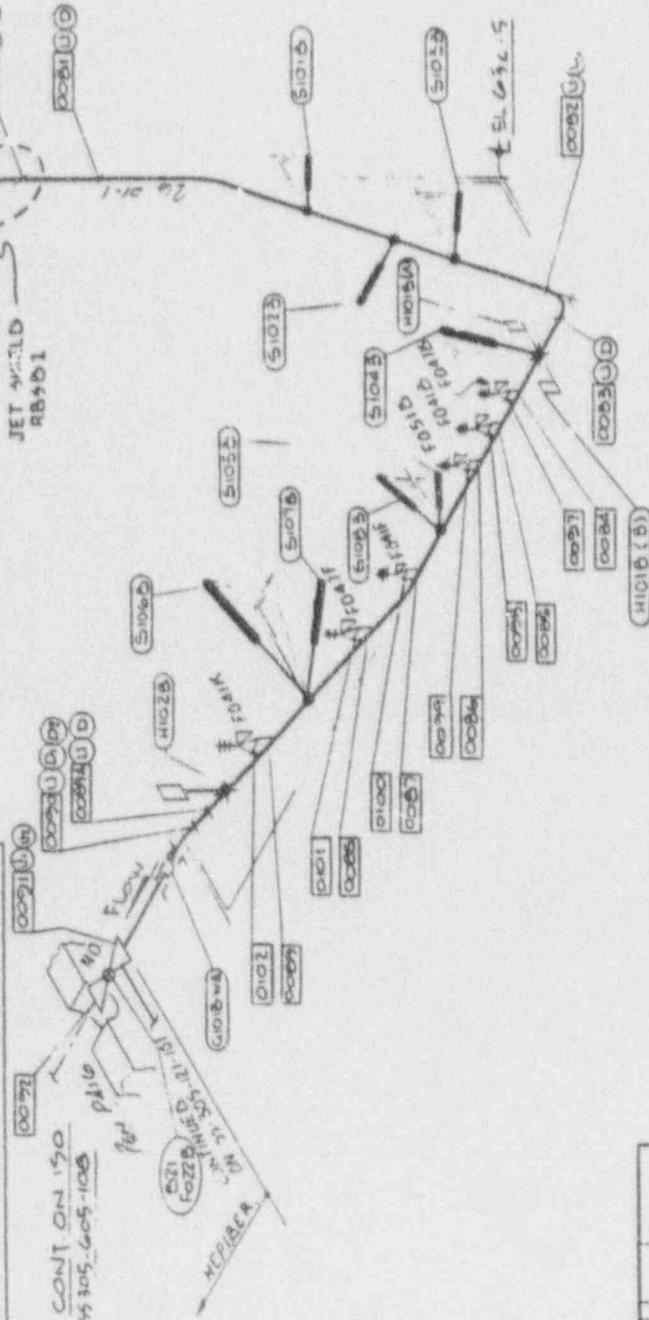
REVISIONS	DATE	BY	REASON
1	1/18/61	JAK	ISSUE FOR CONSTRUCTION
2			
3			
4			
5			
6			
7			
8			
9			
10			

REVISED TO CURRENT  
 STANDARDS/FORMAT  
 PER DCN 3410

**KEY PLAN**



REACTOR VESSEL  
AZIMUTH AT 252°  
NOZZLE NO. 8  
EL 650'-0"



**NOTE**

1. ALL PIPING ON THIS KSO IS CLASS 1
  2. PSI 03 02  
1ST B21-002
  3. RELIEF VALVES:  
1B21-F041B  
1S21-F041F  
1B21-F041B
- SAFETY VALVES:  
1B21-F041K  
1B21-F041D  
1B21-F041F

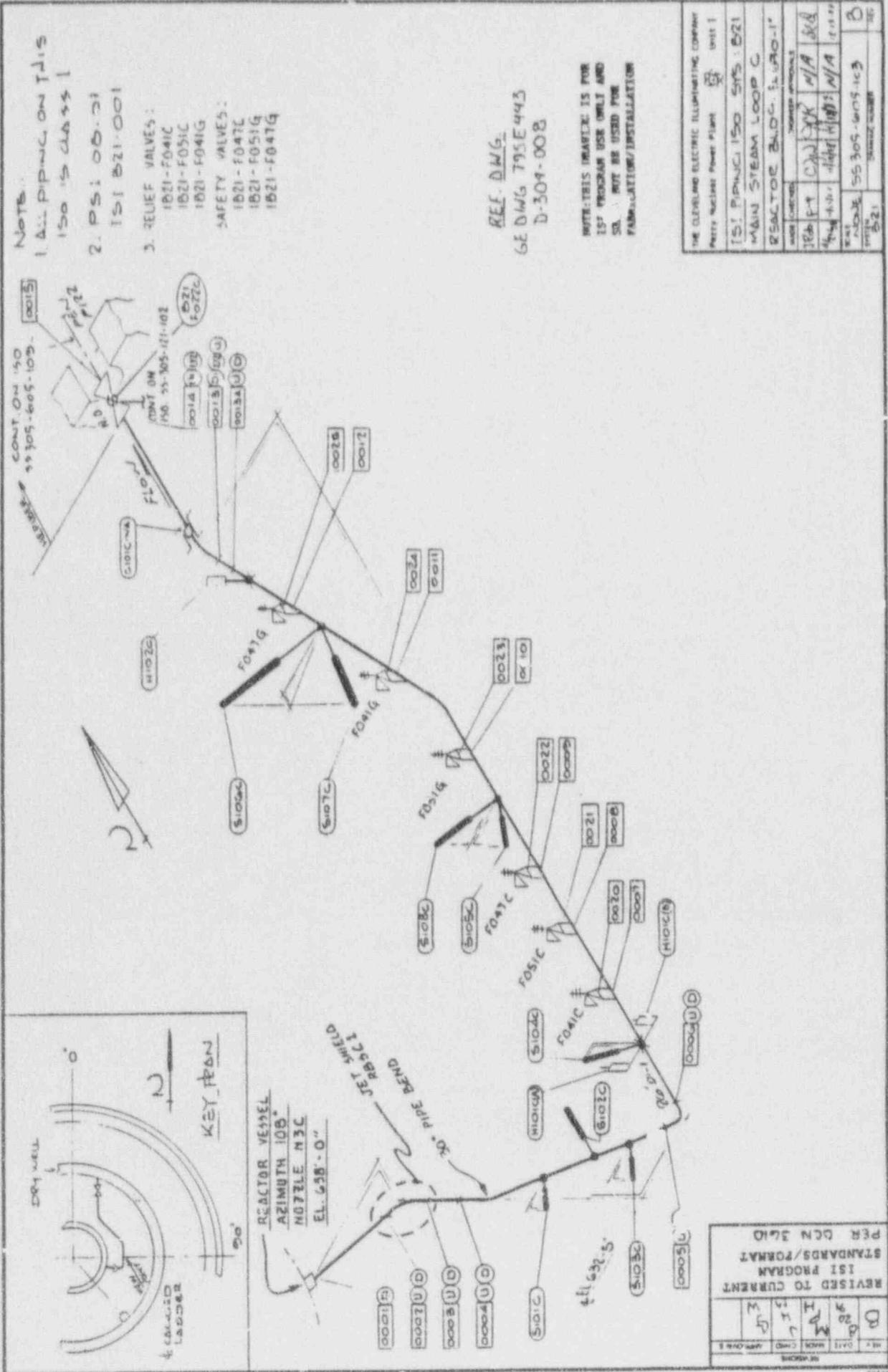
REF DWG  
GE DWG 795E443  
D-304-007

NOTES: THIS DRAWING IS FOR  
ISE PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part of Nuclear Power Plant	Unit 1
ISE PIPING ISO SYS B21	
MAIN STEAM LOOP B	
REACTOR BLDG ELSO-1	
NO. 1	NO. 2
DATE	APPROVED
1848	38 N/A JLL
4/28/68	1/18/68 N/A JLL
PROJECT	55 305-605-102
DWG NO.	D-304-007

REV	DATE	BY	CHKD	APPROVED
1		B		
2		M		
3		H		
4		C		

REVISED TO CURRENT ISE PROGRAM STANDARDS/FORMAT PER DCN 3410



- NOTE:**
1. ALL PIPING ON THIS 150 IS CLASS 1
  2. PSI: 00.21  
151 B21-001
  3. RELIEF VALVES:  
1B21-F041C  
1B21-F051C  
1B21-F041G
- SAFETY VALVES:**
- 1B21-F041C
  - 1B21-F051G
  - 1B21-F041G

REF. DWG.  
6E DWG 795E443  
D-304-008

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHOULD NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1
PERRY NUCLEAR POWER PLANT		
151 PIPING 150 SPS 1521		
MAIN STEAM LOOP C		
REACTOR BLDG. 3A-100-1"		
DATE	BY	CHKD
10/1/54	W.A. BARKER	M.A. BARKER
10/1/54	W.A. BARKER	M.A. BARKER
DATE	BY	CHKD
10/1/54	W.A. BARKER	M.A. BARKER
PROJECT NO.	55305-1015-103	
DWG. NO.	D-304-008	
REV.		

REVISED TO CURRENT	PER DCN 3410
STANDARDS/FORMAT	
ISI PROGRAM	
DATE	BY
10/1/54	W.A. BARKER
10/1/54	M.A. BARKER
10/1/54	M.A. BARKER
10/1/54	M.A. BARKER

Notes:-  
 1. ALL PIPING ON THIS IS 150 CLASS 1

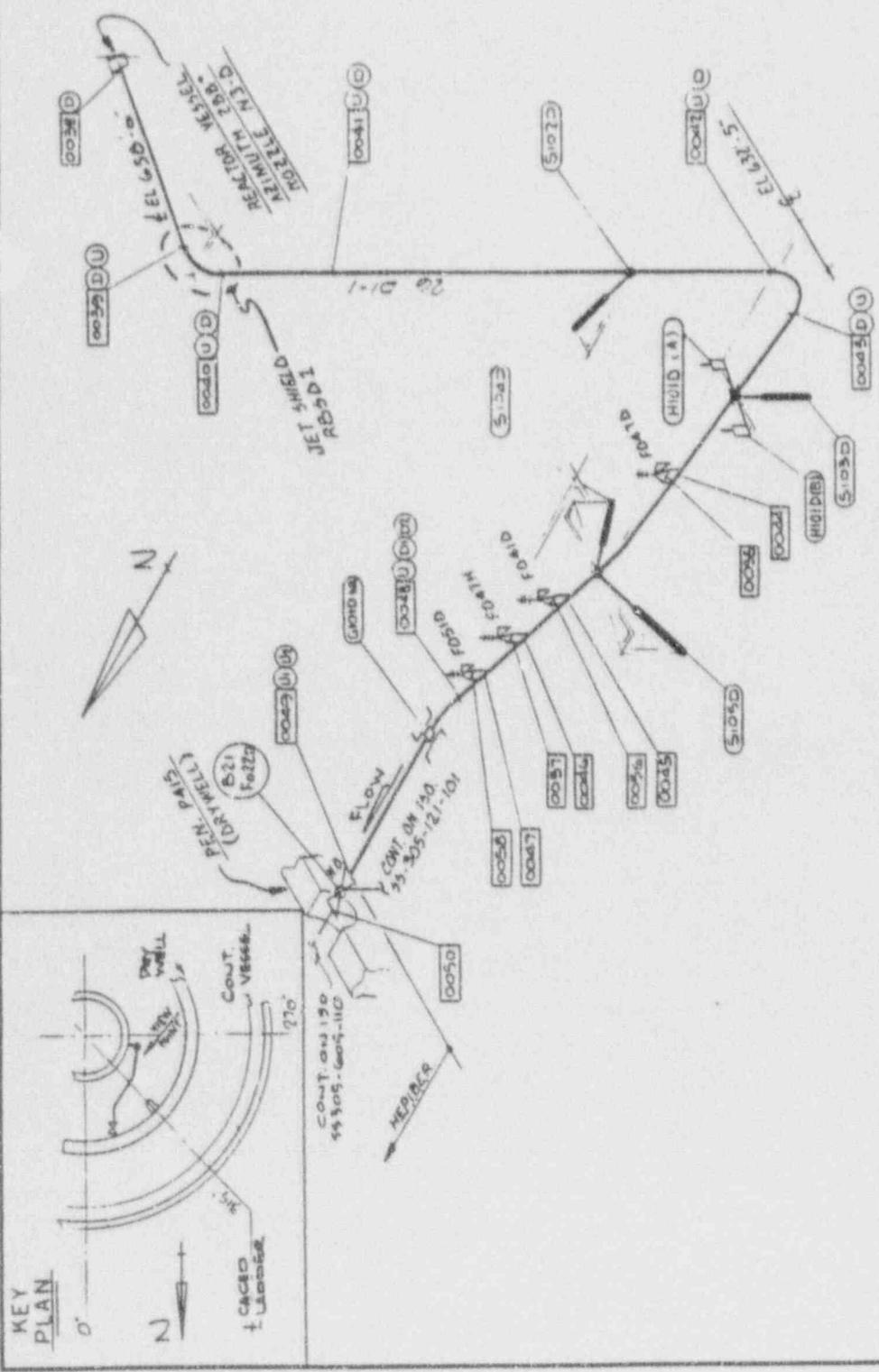
2. PSI 08-02  
 151 521-007

3. RELIEF VALVES:  
 1B21-F041D  
 1B21-F051D  
 SAFETY VALVES:  
 1B21-F041D  
 1B21-F041M

SEE DWG.  
 GE. DWG. 795E413  
 D-304-007

NOTES: THIS DRAWING IS FOR  
 ISI PROGRAM FOR ORBIT AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Unit: 51
151 PIPING 150 SYS B21	
MAIN STEAM LOOP D	
REACTOR BLDG. 51 620-1	
NO. SHEETS	TOTAL SHEETS
1	1
DATE	SCALE
11/11/51	AS SHOWN
BY	CHKD
J. B. P.	N/A
APP. 11/11/51	N/A
REV. 1	55305 605-104
DATE	BY
11/11/51	55305 605-104
SCALE	AS SHOWN
1	1



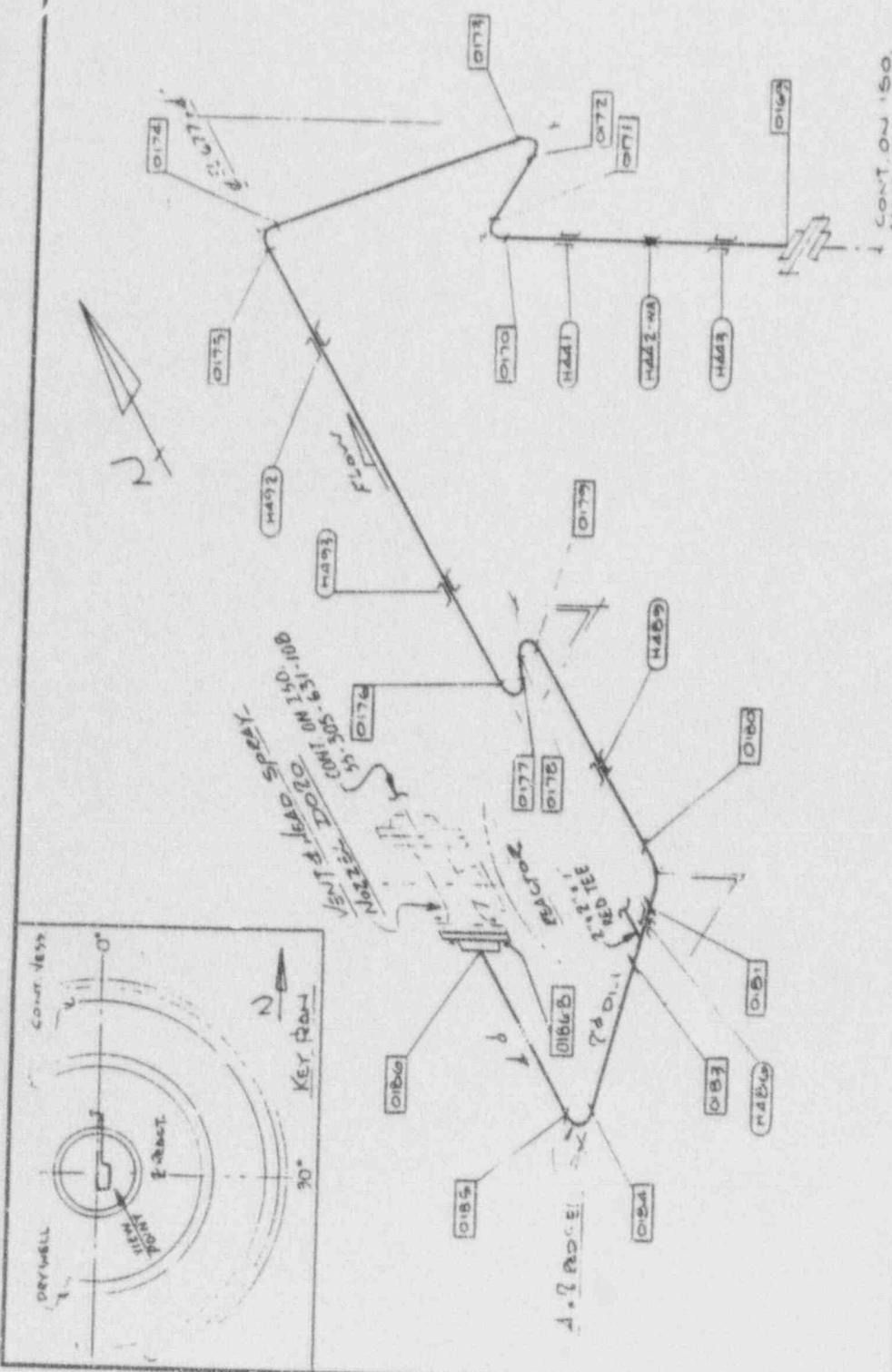
REV. 1	DATE	BY	CHKD	APPROV. 1
11/11/51	11/11/51	J. B. P.	N/A	N/A
1	1	1	1	1
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3510				

NOTE:  
 1. ALL PIPING ON THIS  
 '50 IS CLASS 1  
 2. PS: 08-02A  
 151 B21-002A  
 PS: 08-03A  
 151 B21-003

REF. DWG.  
 D-301-725

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FACILITATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Pressy Nuclear Power Plant	
151 PIPING	150 gys B21
REACTOR VESSEL HEAD VENT PIPING	
REACTOR BLDG 21.630.1	
DATE	5/6/50
BY	W. J. ...
CHECKED	...
APPROVED	...
SCALE	AS SHOWN
PROJECT	56-305-605-105
REV.	...



REV.	DATE	BY	CHKD.	APPROVED
B	10/19/50	H	H	H
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCM 3542				

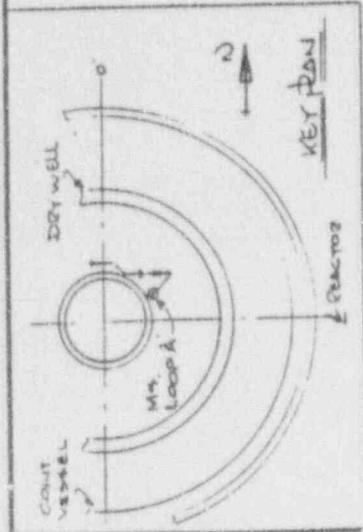
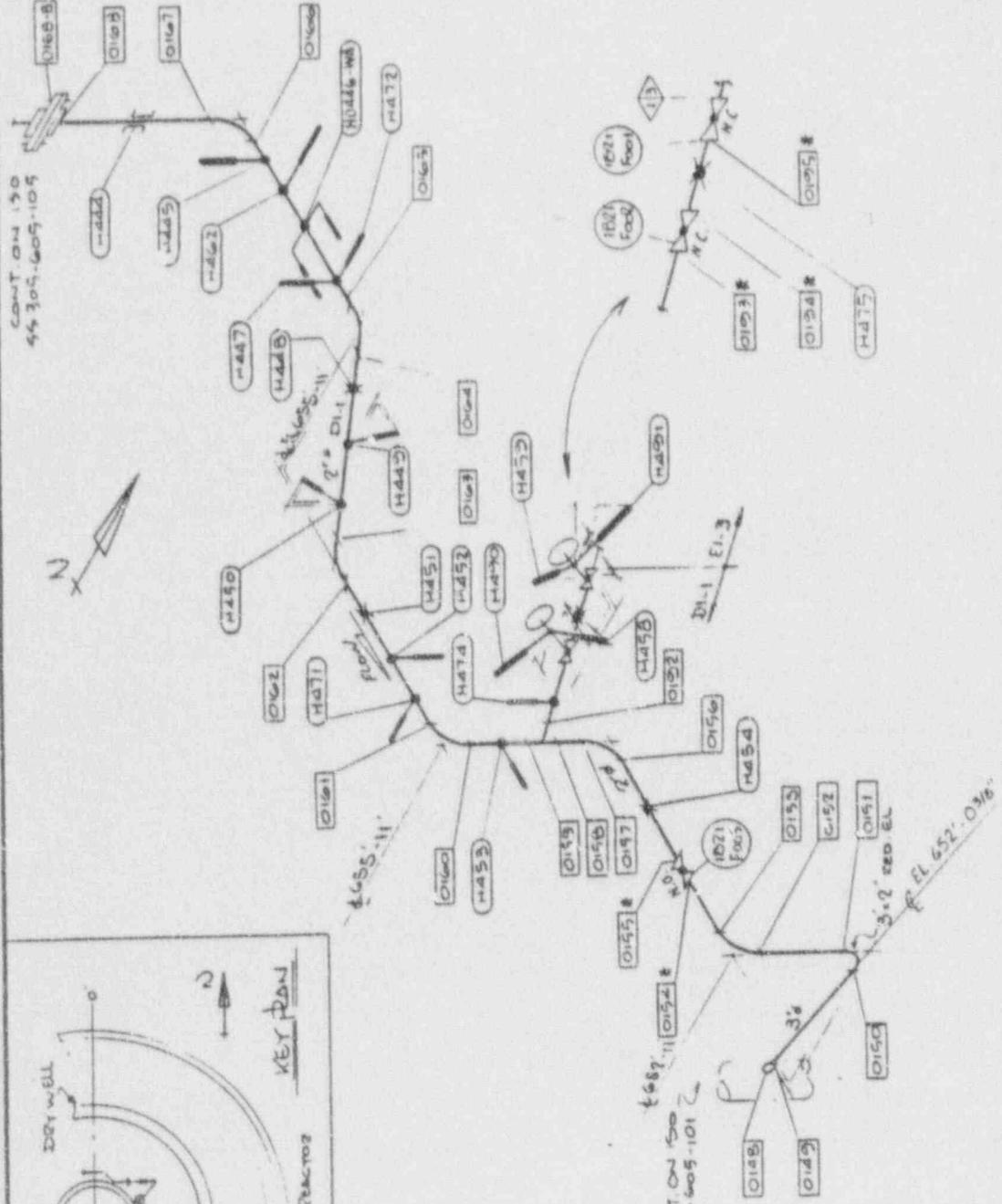
**NOTES:**

- 1. ALL PIPING ON THIS 150 IS CLASS 1
- 2. PSI 00-04 IS 151-021-004.
- 3. WELDS MARKED BY AN ASTERISK ARE SOCKET WELDS.

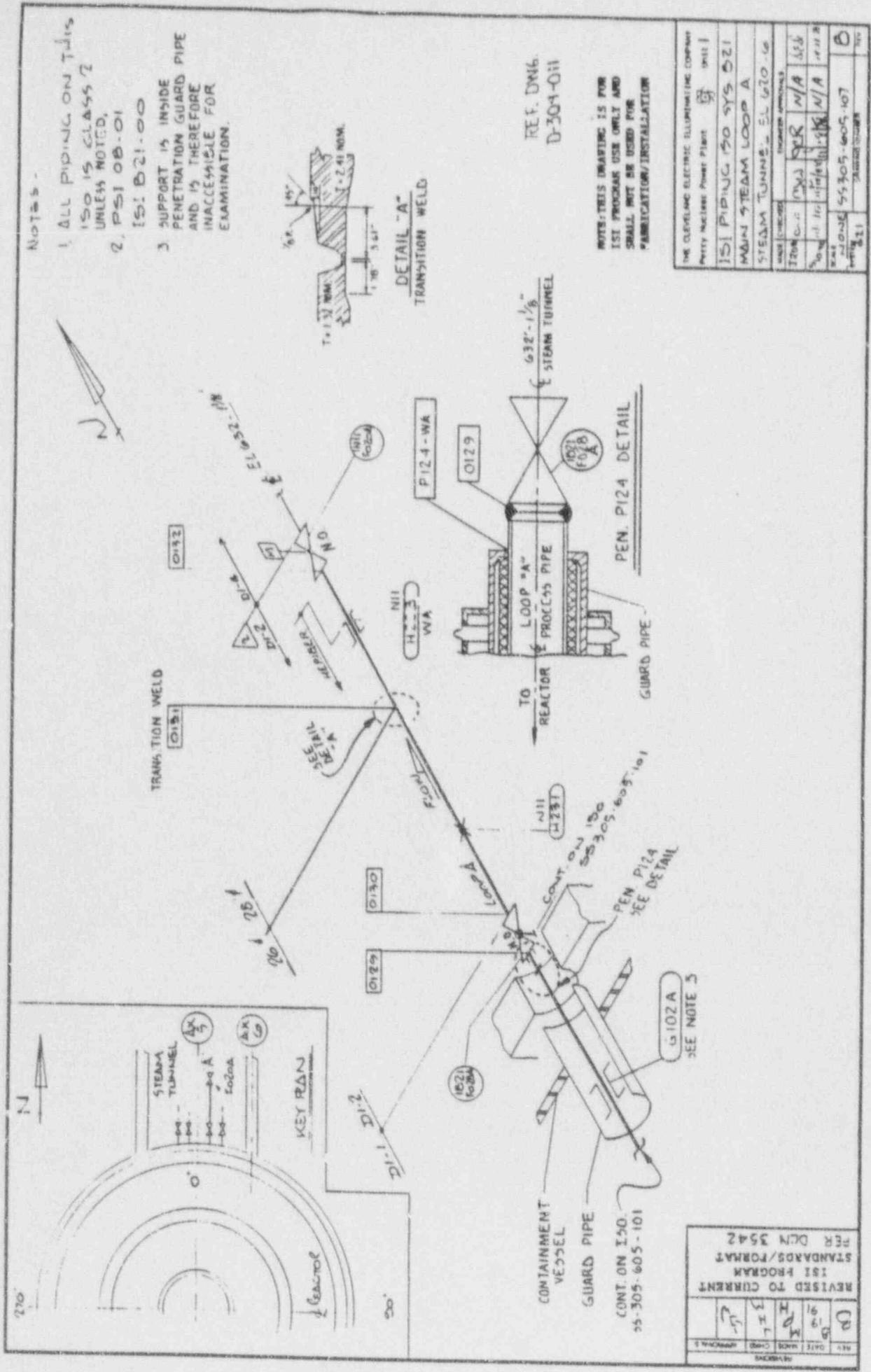
SEE DWG. D-209-301

NOTE: THIS DRAWING IS FOR THE PROCESSOR USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT: 150	UNIT: 1
151-021-004	150 SYS 521
REN FOR VENT HEAD VENT PIPING	
PROCESSOR BUDG EL 630-1	
DATE: 10/1/72	DESIGNED BY: N/A
SCALE: 1/4" = 1'-0"	CHECKED BY: N/A
APPROVED BY: [Signature]	PROJECT NUMBER: 150-106
521	150

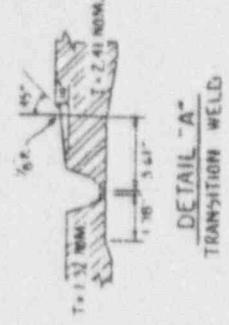


REVISED TO CURRENT	151	PER DCN 3542
STANDARD/FORAT		
DATE	10/1/72	
BY	[Signature]	
CHECKED	[Signature]	
APPROVED	[Signature]	



Notes -

1. ALL PIPING ON THIS IS 150 15 CLASS 2 UNLESS NOTED.
2. PSI 08-01 ISI B21-00
3. SUPPORT IS INSIDE PENETRATION GUARD PIPE AND IS THEREFORE INACCESSIBLE FOR EXAMINATION.



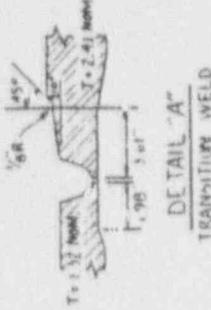
REF. DWG. D-304-011

NOTES: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-605-101
DATE	10/11/54
BY	W.A.
CHKD	H.A.
APP'D	H.A.
SCALE	AS SHOWN
TITLE	MAIN STEAM LOOP A
PROJECT	STEAM TUNNEL - EL. 670.00
REV.	0

REV.	DATE	BY	CHKD	APP'D	REVISION
01	10/11/54	W.A.	H.A.	H.A.	REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3542

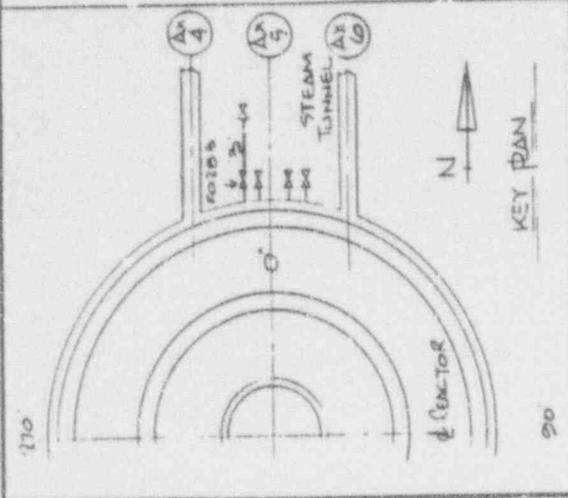
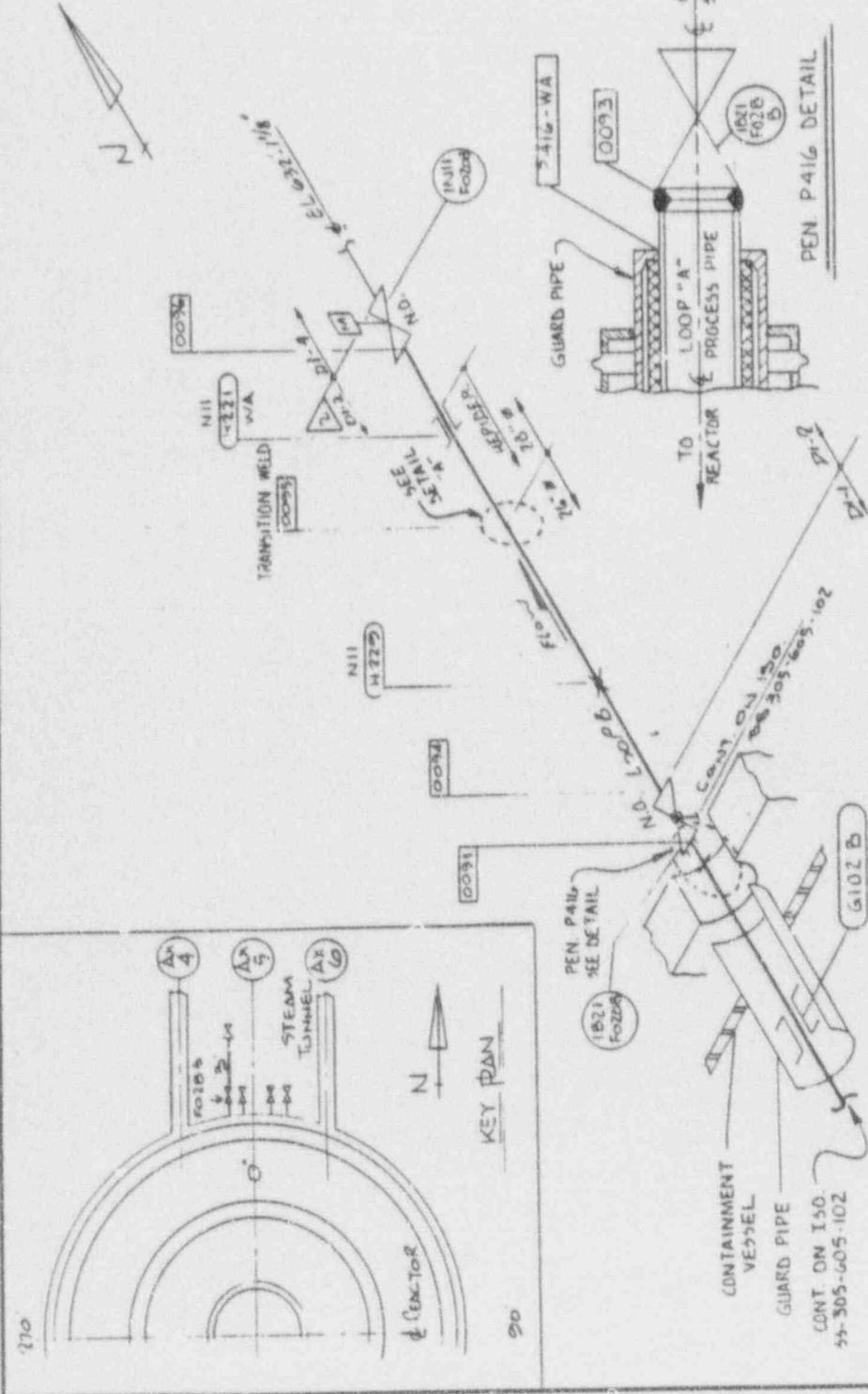
- Note**
1. ALL PIPING ON THIS IS 150 IS CLASS 2 UNLESS NOTED.
  2. PSI 00-02
  3. THIS SUPPORT IS INSIDE PENETRATION GUARD PIPE AND IS THEREFORE INACCESSIBLE FOR EXAMINATION.



REF. DWG.  
J-309-011

N.B.: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
PROJECT NUMBER: 150 545 B21		UNIT: 1	
151 PIPING, 150 545 B21			
MAIN STEAM LOOP B			
STEAM TUNNEL EL 620-G			
DATE	BY	CHKD	APPROVED
5/6/61	J.P.R.	M.A.	J.P.R.
5/6/61	J.P.R.	M.A.	J.P.R.
DRAWING NUMBER: 55-305-605-108			REV: B
SHEET NUMBER: 321			TOTAL SHEETS: 122

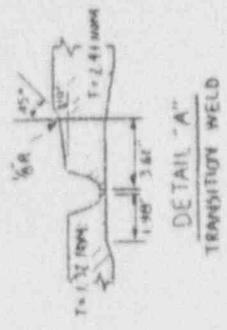


REV	DATE	BY	CHKD	APPROVALS
B	6/19/61	M.A.	J.P.R.	
A	5/6/61	J.P.R.	M.A.	
C	5/6/61	J.P.R.	M.A.	

REVISED TO CURRENT  
1ST PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

**NOTE**

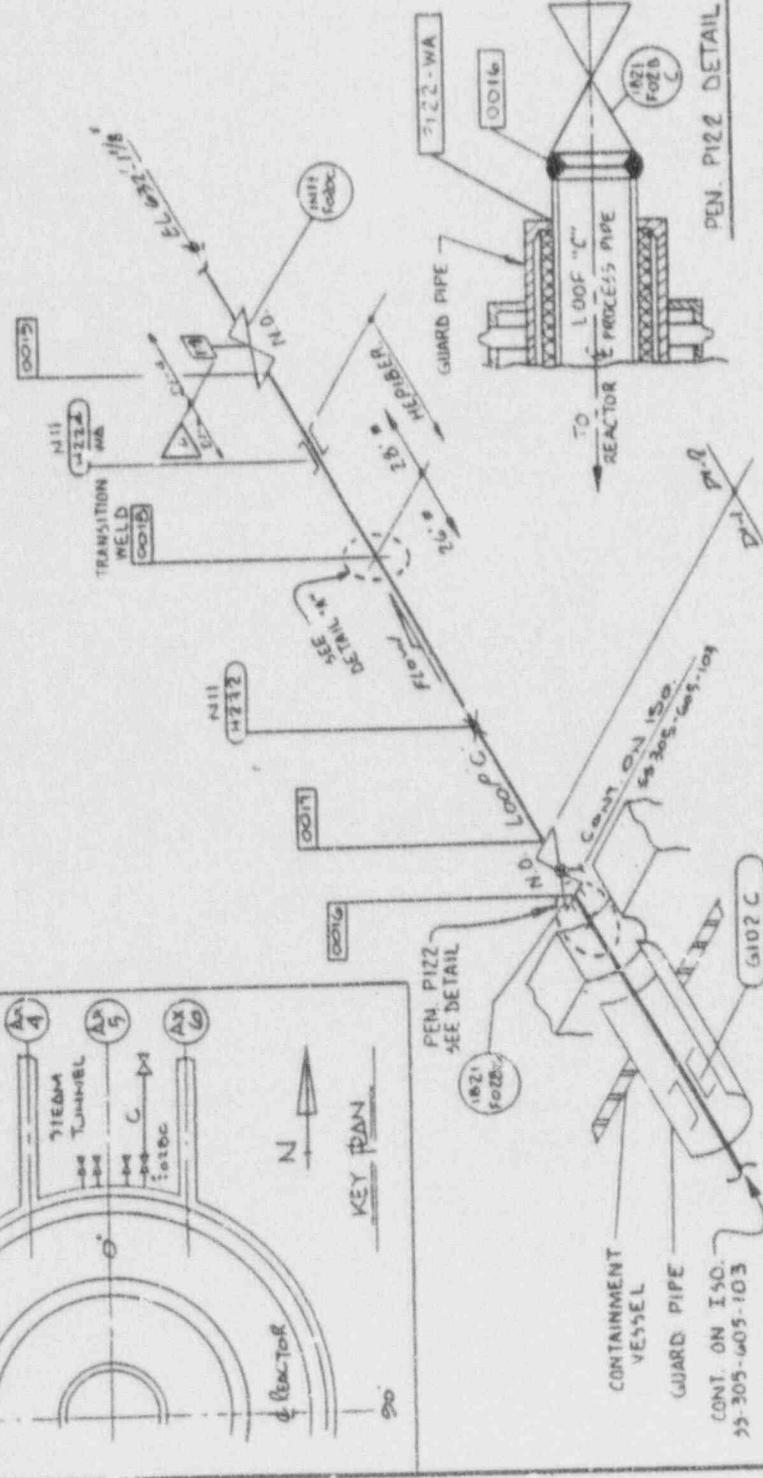
1. ALL PIPING ON THIS ISO IS CLASS 2 UNLESS NOTED.
2. PSI 03-01 IS1 521-001
3. SUPPORT IS INSIDE PENETRATION GUARD PIPE AND IS THEREFORE INACCESSIBLE FOR EXAMINATION.



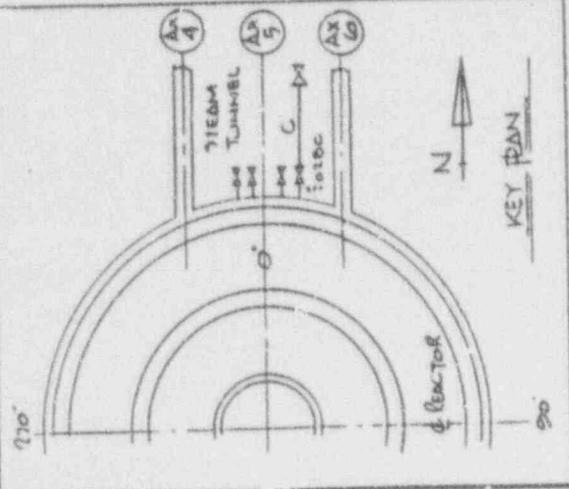
REF. DWG. D-309-011

NOTES: THIS DRAWING IS FOR THE 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	PLANT 53 UNIT 1
151 PIPING ISO SYS B21	
MAIN STEAM LOOP C	
STEAM TUNNEL EL 620.6	
DATE	10/10/77
BY	SK
CHECKED	MA
APPROVED	MA
SCALE	AS SHOWN
FIG. NO.	53305-605-103
REV.	1

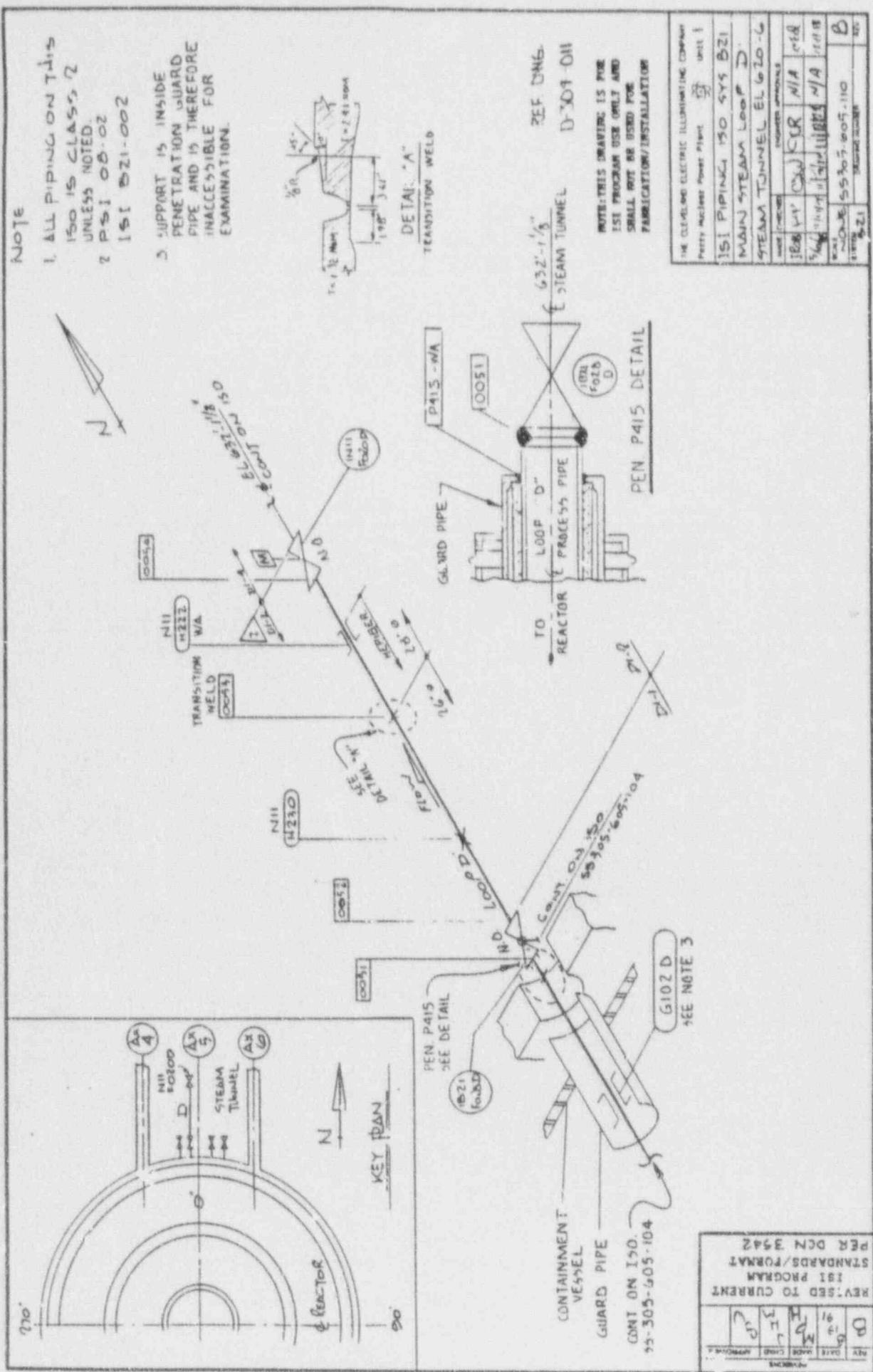


PEN. P122 DETAIL



REV	DATE	BY	APP
1	10/10/77	SK	MA
2			
3			
4			
5			

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 2542



- NOTE
1. ALL PIPING ON THIS IS 150 IS CLASS 2 UNLESS NOTED. 2 PSI 08-02 151 B21-002
  2. SUPPORT IS INSIDE PENETRATION GUARD PIPE AND IS THEREFORE INACCESSIBLE FOR EXAMINATION.



NOTE: THIS DRAWING IS FOR IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Sheet 1
151 PIPING 150 545 B21	
MAIN STEAM LOOP D	
STEAM TUNNEL EL 620-6	
DATE	APPROVED
12/18/54	J.R. N/A
1/11/55	J.R. N/A
2/20/55	J.R. N/A
3/20/55	J.R. N/A
4/21/55	J.R. N/A
5/21/55	J.R. N/A
6/21/55	J.R. N/A
7/21/55	J.R. N/A
8/21/55	J.R. N/A
9/21/55	J.R. N/A
10/21/55	J.R. N/A
11/21/55	J.R. N/A
12/21/55	J.R. N/A

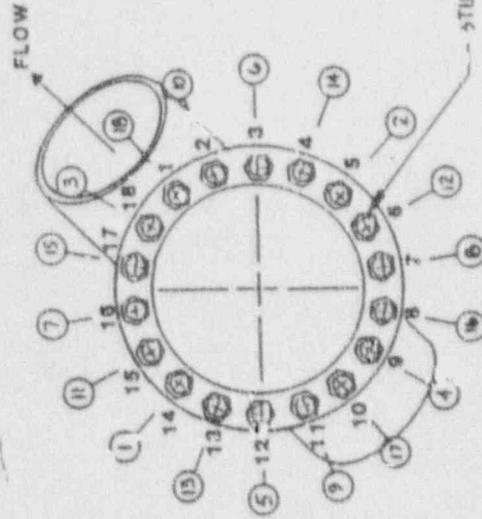
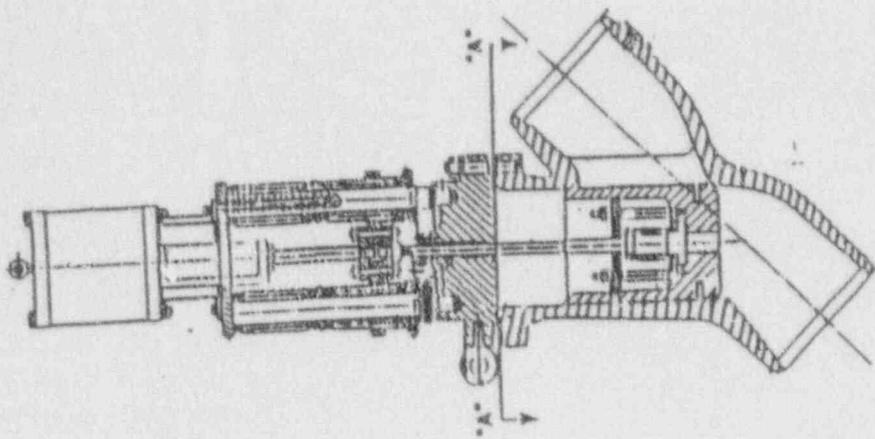
REV	DATE	BY	CHKD	APPROVED
1	12/18/54	J.R.	J.R.	J.R.
2	1/11/55	J.R.	J.R.	J.R.
3	2/20/55	J.R.	J.R.	J.R.
4	3/20/55	J.R.	J.R.	J.R.
5	4/21/55	J.R.	J.R.	J.R.
6	5/21/55	J.R.	J.R.	J.R.
7	6/21/55	J.R.	J.R.	J.R.
8	7/21/55	J.R.	J.R.	J.R.
9	8/21/55	J.R.	J.R.	J.R.
10	9/21/55	J.R.	J.R.	J.R.
11	10/21/55	J.R.	J.R.	J.R.
12	11/21/55	J.R.	J.R.	J.R.
13	12/21/55	J.R.	J.R.	J.R.

NOTE

1. ALL PIPING ON THIS MO  
IS CLASS I

2. PSI 08-03  
PSI 821-05

3. TORQUING SEQUENCE  
EXAMPLE: (1)



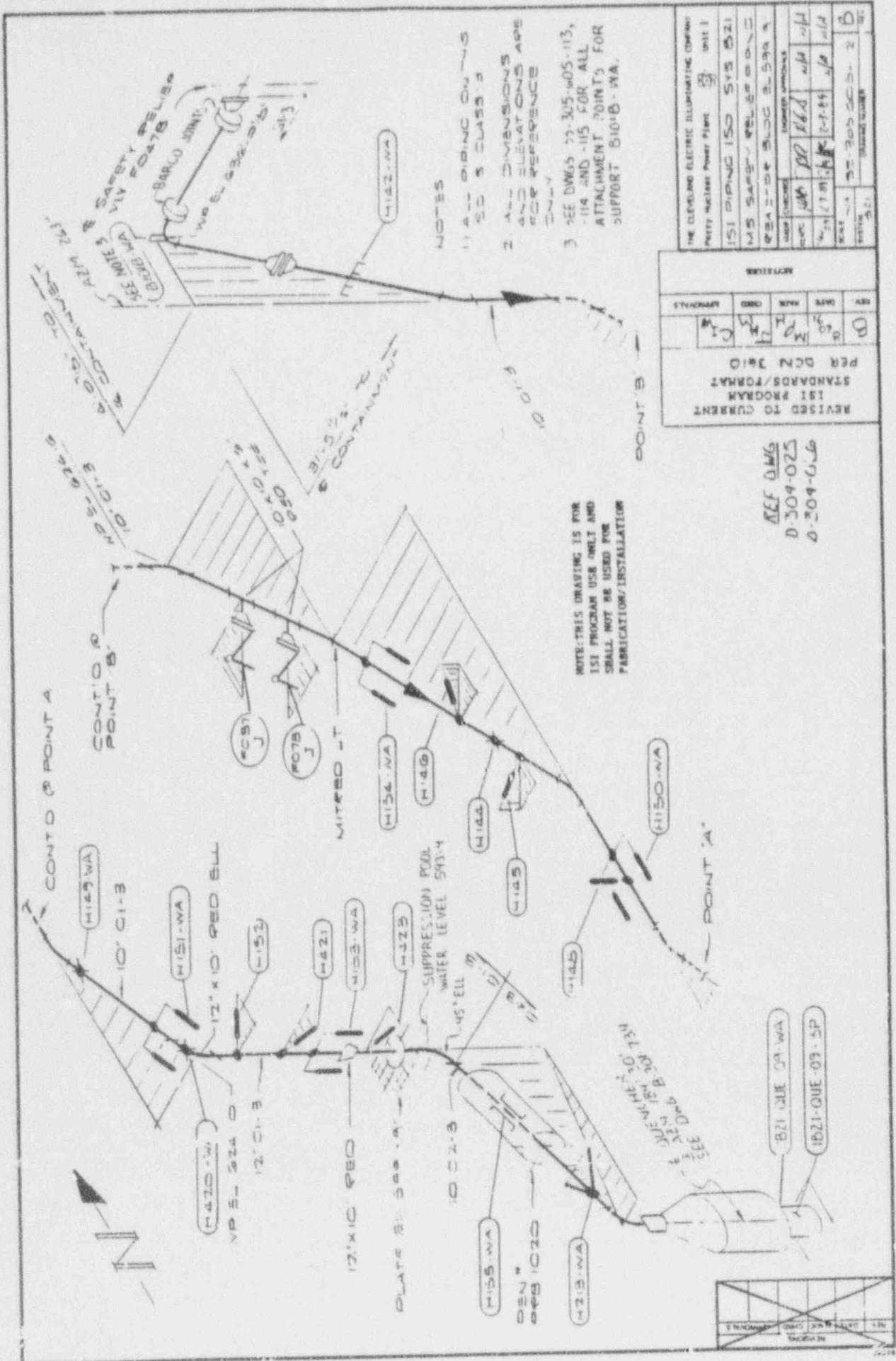
SECTION "A-A"

STUD EXAM. ID. EXAMPLE: 1821-F028A-5B

NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Unit: 1
ISI PIPING DRG. SYS. 821	
MAIN STEAM VALVE F028A	
DRAWING AGREEMENT	
DATE: 11/17/77	BY: JAB
SCALE: 1/4" = 1'-0"	APP: N/A
PROJECT NO: 85305-609-111	REV: A
DATE: 8/2	BY: JAB

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT	DATE	BY
	11/17/77	JAB



NOTES  
 1. ALL DIMENSIONS ARE CLASS 3  
 2. ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY  
 3. SEE DWGS 22-305-005-113, -114 AND -115 FOR ALL ATTACHMENT POINTS FOR SUPPORT 510-B-WA.

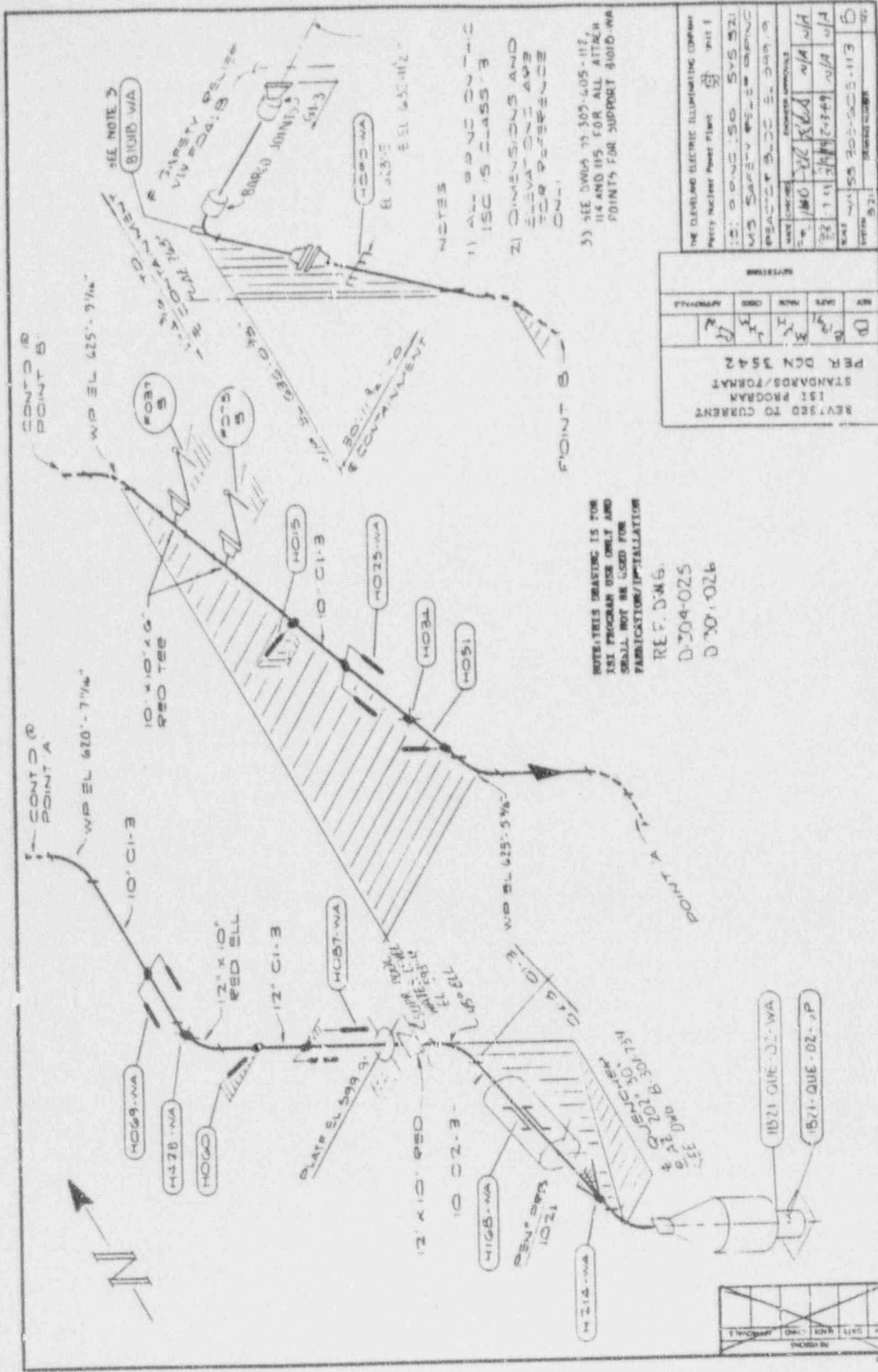
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REV DWG  
 D-304-025  
 D-304-016

REVISION				
NO.	DATE	BY	CHKD	APPV
1	06/21/81	PP	PP	PP
2	07/25/81	PP	PP	PP
3	08/11/81	PP	PP	PP

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3610

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	UNIT 1
PERCY NUCLEAR POWER PLANT	510-B-WA
ISI PIPING 150 SYS 021	
M/S SAFETY RELIEF PIPING	
2" DIA. OF SLOTTED 2-599-A	
UNAPPROVED	
DATE	08/11/81
BY	PP
CHKD	PP
APPV	PP
SCALE	AS SHOWN
FIG. NO.	510-B-WA-2
DRAWING NUMBER	10



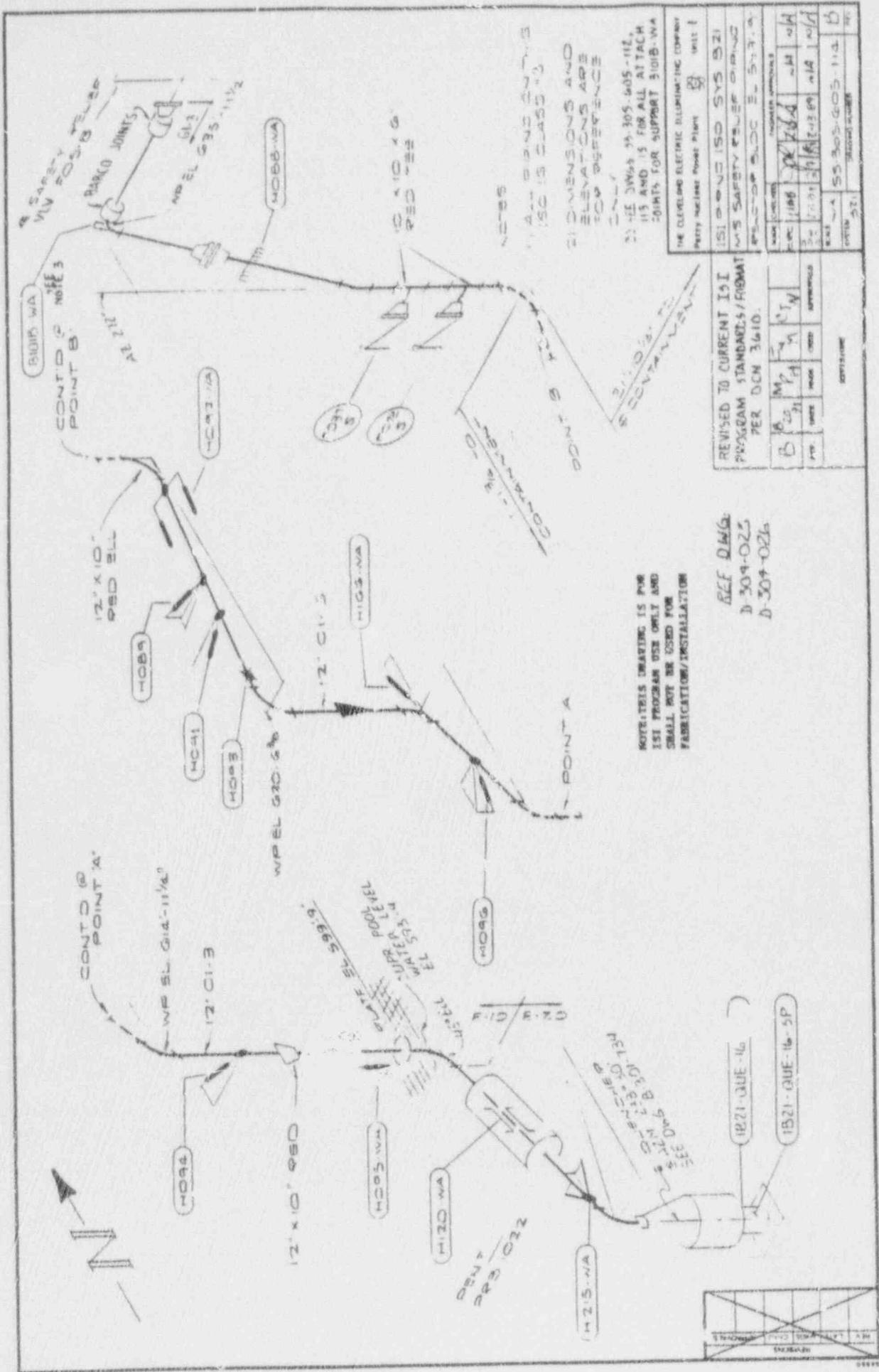
NOTES  
 1) ALL BEAMS AND COLUMNS ARE TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DIMENSIONS AND ELEVATIONS SHOWN ON THIS DRAWING.  
 2) DIMENSIONS AND ELEVATIONS ARE TO BE USED FOR FABRICATION AND ERECTION.  
 3) SEE DWGS 75-305-105-112, 114 AND 115 FOR ALL ATTACH POINTS FOR SUPPORT 81010-WA

NOTES THIS DRAWING IS FOR THE FIRST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION.

REF. DWG. D-304-025 D-301-026

REVISED TO CURRENT STANDARDS/TORMAT		PER DCN 3542		DATE		BY	
1	2	3	4	5	6	7	8
REVISIONS							
NO.	DATE	BY	CHKD.	APPV.	DESCRIPTION		
1							
2							
3							
4							
5							
6							
7							
8							

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PROJECT NUMBER: 75-305-112  
 SHEET NO.: 112 OF 115  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
 DATE: 11/11/58  
 TITLE: [Blank]



NOTABLES DRAWING IS FOR  
 ISE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF. D416  
 D-309-025  
 D-309-026

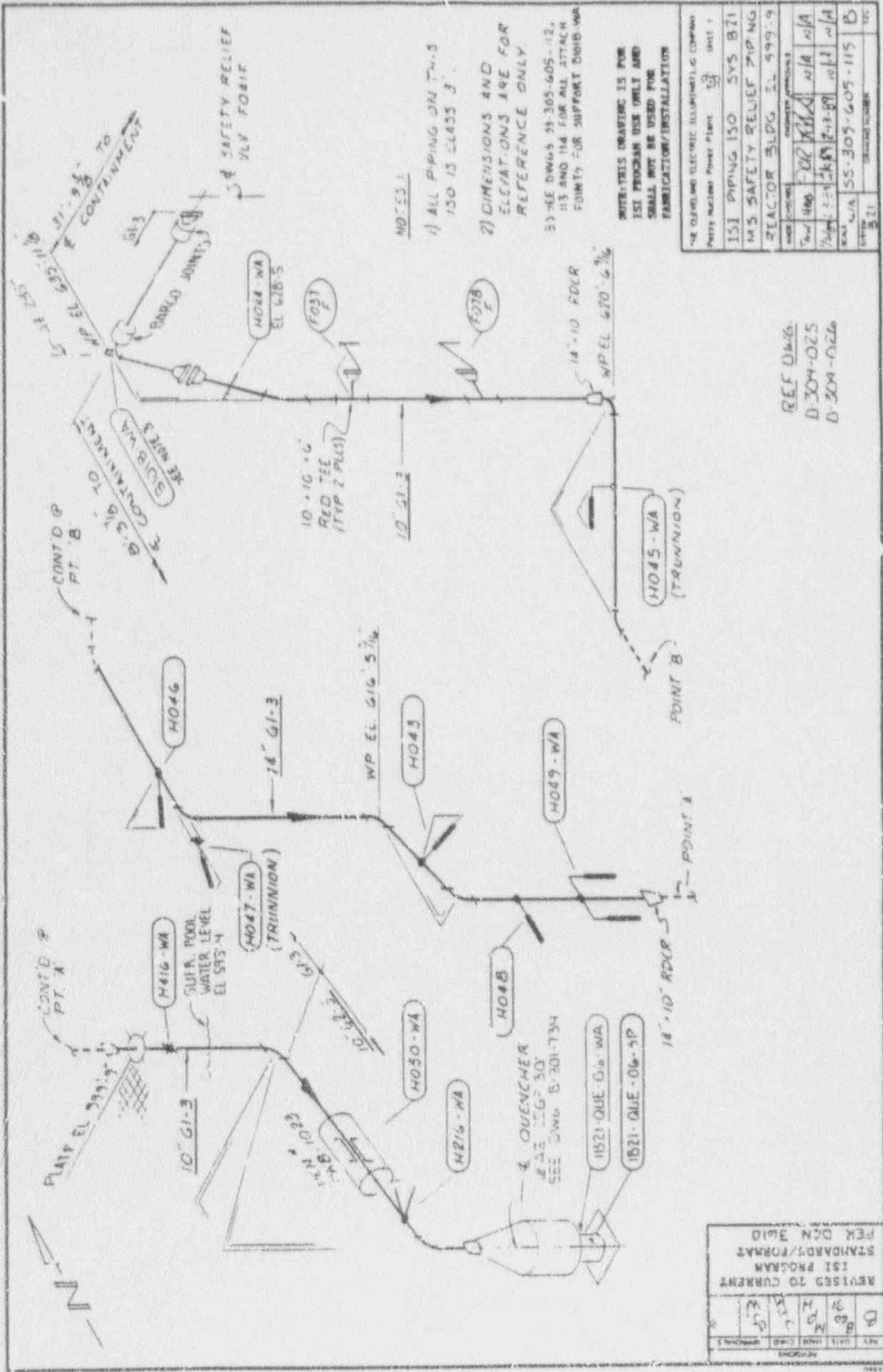
REVISED TO CURRENT ISE  
 PROGRAM STANDARDS/FORMAT  
 PER DCN 3610.

REV	DATE	BY	CHKD	APPROVED
1	11/14/88	M. J. W.		
2	12/01/88	M. J. W.		
3	12/01/88	M. J. W.		

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY 151 BOND ST. CLEVELAND, OH 44115 (216) 393-3005	PROJECT NO. 88-1112
DATE: 11/14/88	ISSUE NO. 1
BY: M. J. W.	SCALE: AS SHOWN
CHKD: M. J. W.	PROJECT: 88-1112
APPROVED: M. J. W.	CLIENT: 55-309-025-114
COPY NO. 22	SHEET NO. 1

NOTES  
 1) ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY  
 2) SEE DWGS 35, 305, 605-112, 113 AND 15 FOR ALL ATTACH POINTS FOR SUPPORT 3101B-WA

SEARCHED	INDEXED	SERIALIZED	FILED



NOTES:

- 1) ALL PIPING DN 7-1/2\"/>
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
- 3) SEE DWGS 25-305-605-112, 113 AND 114 FOR ALL ATTACH POINTS FOR SUPPORT DMB-WA

NOTES: DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

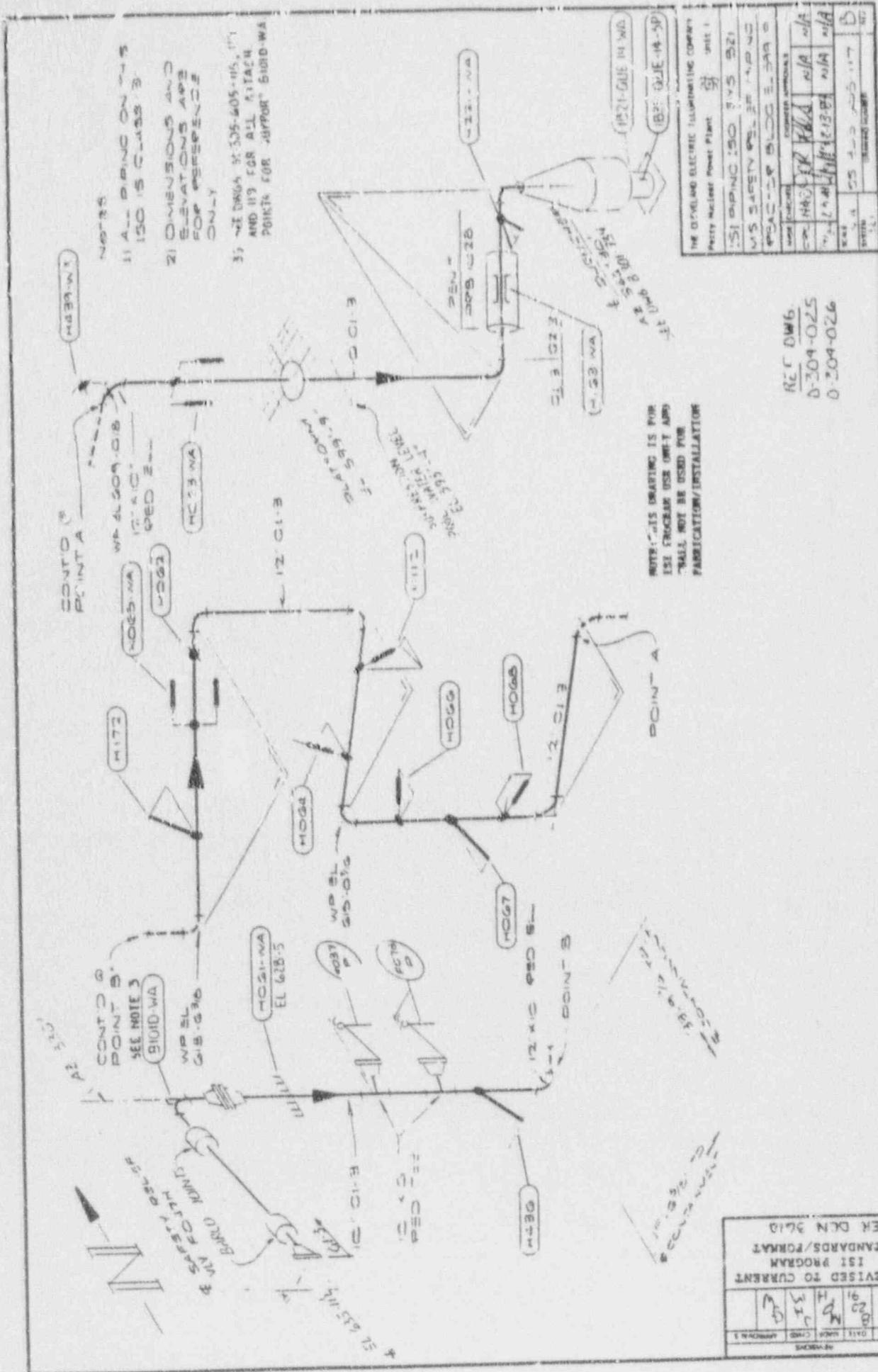
THE OREGON ELECTRIC TELEPHONE CO. COMPANY	
Project Name: Electric Plant	Sheet: 1
151 PIPING 150 SYS B71	
MS SAFETY RELIEF PIPING	
REACTOR BLDG. EL. 999.9	
DATE: 10/14/88	BY: [Signature]
SCALE: 1/4" = 1'-0"	
NO. 114	REV. 1
DATE: 11-11-88	
NO. 114	REV. 1
DATE: 11-11-88	
NO. 114	REV. 1
DATE: 11-11-88	

REF DWG. D-304-025 D-304-026

REVISIONS	DATE	BY	CHKD	APP'D
1	11/11/88	[Signature]	[Signature]	[Signature]
2	11/11/88	[Signature]	[Signature]	[Signature]
3	11/11/88	[Signature]	[Signature]	[Signature]
4	11/11/88	[Signature]	[Signature]	[Signature]
5	11/11/88	[Signature]	[Signature]	[Signature]

REVISOR TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCM 5A10





1) ALL DIMENSIONS ARE TO CENTER UNLESS NOTED OTHERWISE  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY  
 3) SEE DRAWING 305-405-115, 117 AND 119 FOR ALL ATTACH POINTS FOR "SUPPORT" BUBBLE-WA

THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR Power Plant	
NO. 1	SHEET 1
DATE	12-1-68
BY	W. J. B. / J. B. B.
CHECKED	W. J. B. / J. B. B.
APPROVED	W. J. B. / J. B. B.
PROJECT	305-405-115, 117, 119
SCALE	AS SHOWN

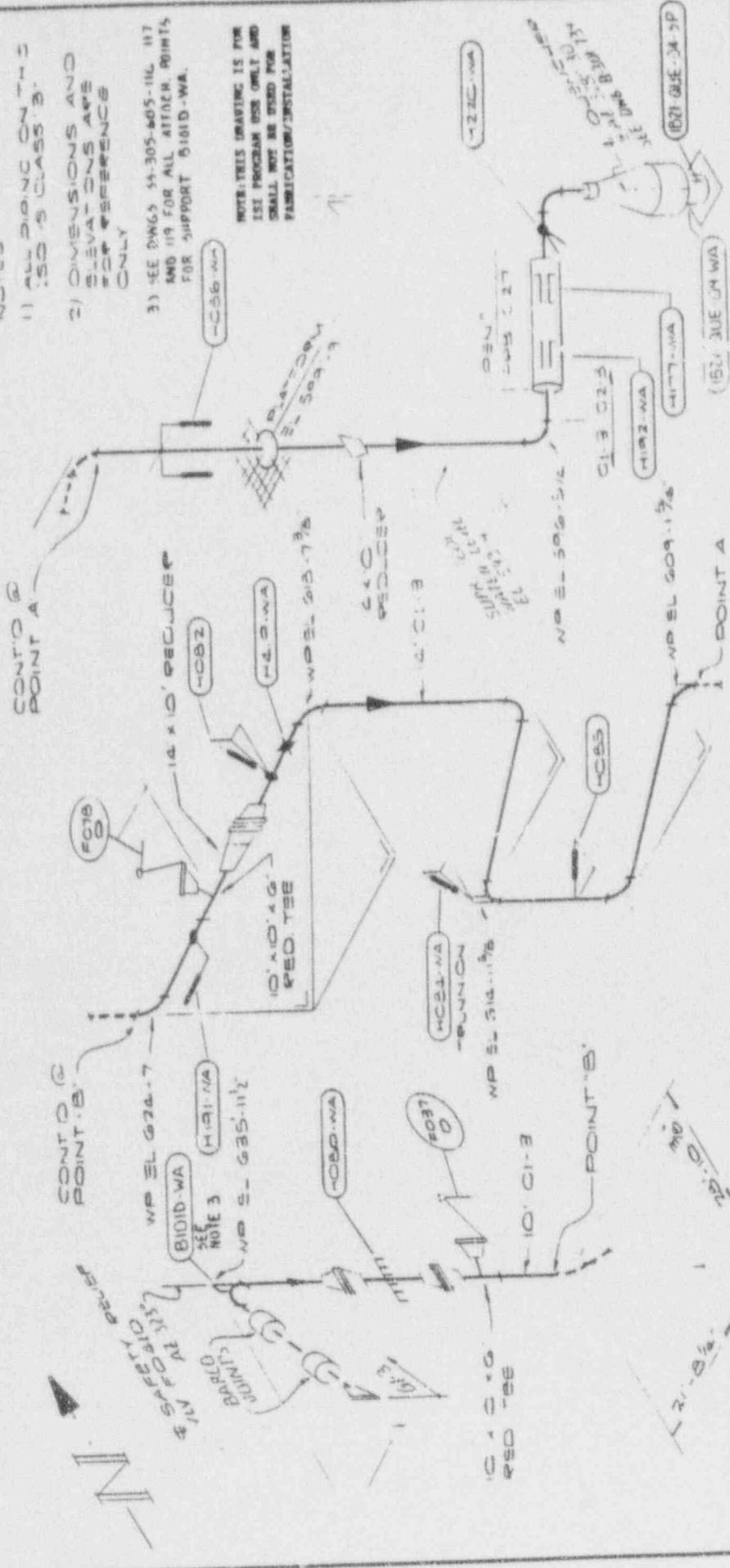
RCT DWG  
 0-204-025  
 0-204-026

REVISED TO CURRENT	REVISED TO CURRENT
ISI PROGRAM	ISI PROGRAM
STANDARDS/FORMAT	STANDARDS/FORMAT
PER DCN 3610	PER DCN 3610
DATE	DATE
BY	BY
CHKD	CHKD
APP'D	APP'D

NOTES

- 1) ALL DIMENSIONS ARE 1:50 CLASS B.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) SEE DWGS 54-305-605-11L, 117 AND 119 FOR ALL ATTACH. POINTS FOR SUPPORT 5101D-WA.

NOTES DRAWING IS FOR 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

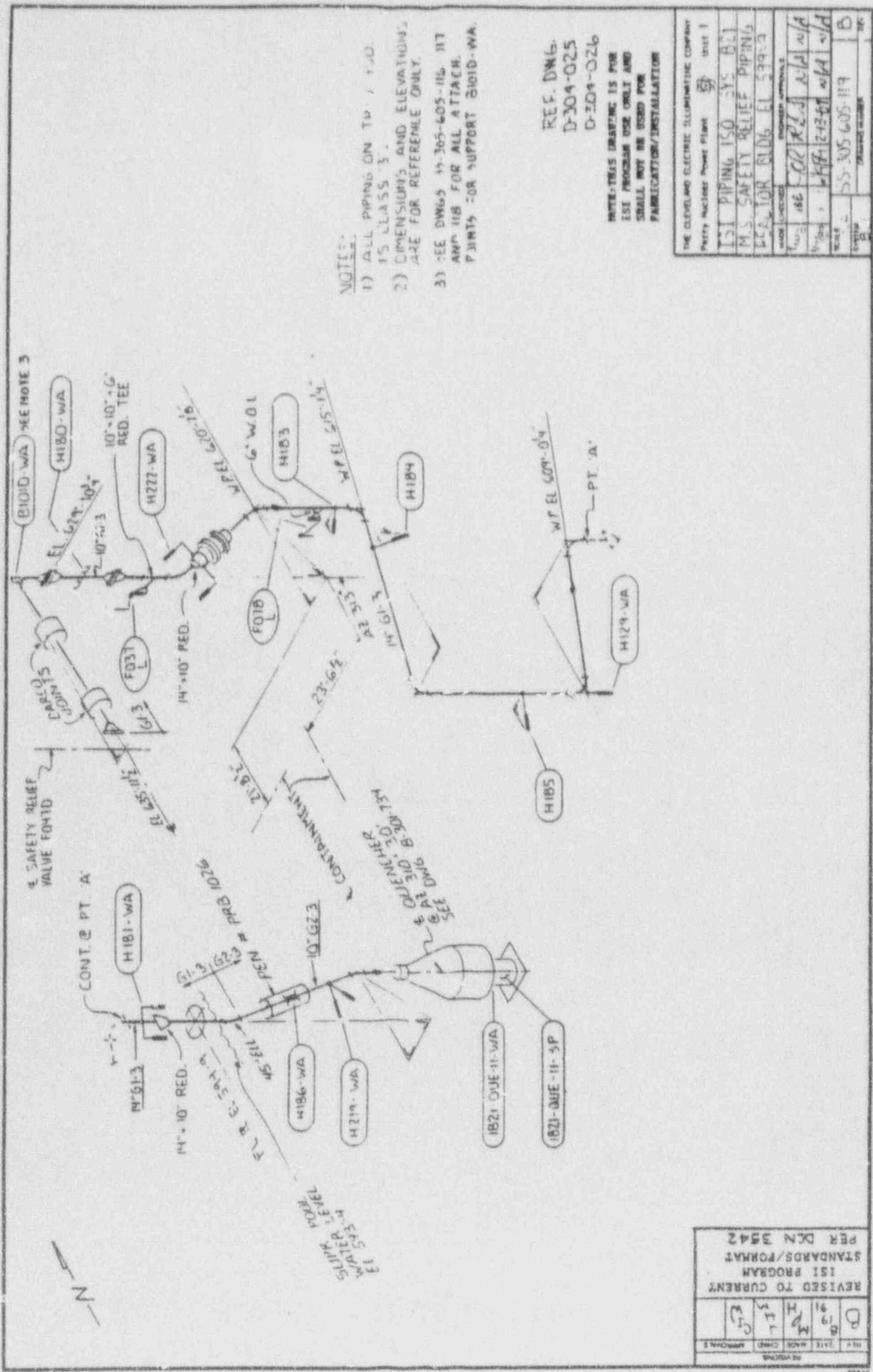


THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part No.	54-305-605-117
Rev.	1
151 PROGRAM 150 SYS 1521	
151 SAFETY RELIEF DRAIN	
SPACER 5101D-WA	
DATE	11/1/68
BY	JR/LLA
CHECKED	11/1/68
BY	JR/LLA
SCALE	AS SHOWN
DRAWING NUMBER	54-305-605-117
PROJECT NUMBER	151

REF DWGS  
54-305-605-117  
54-305-605-118

REV	DATE	BY	CHKD
B	11/1/68	JR	LLA
M			
H			
P			
A			

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCN 3610



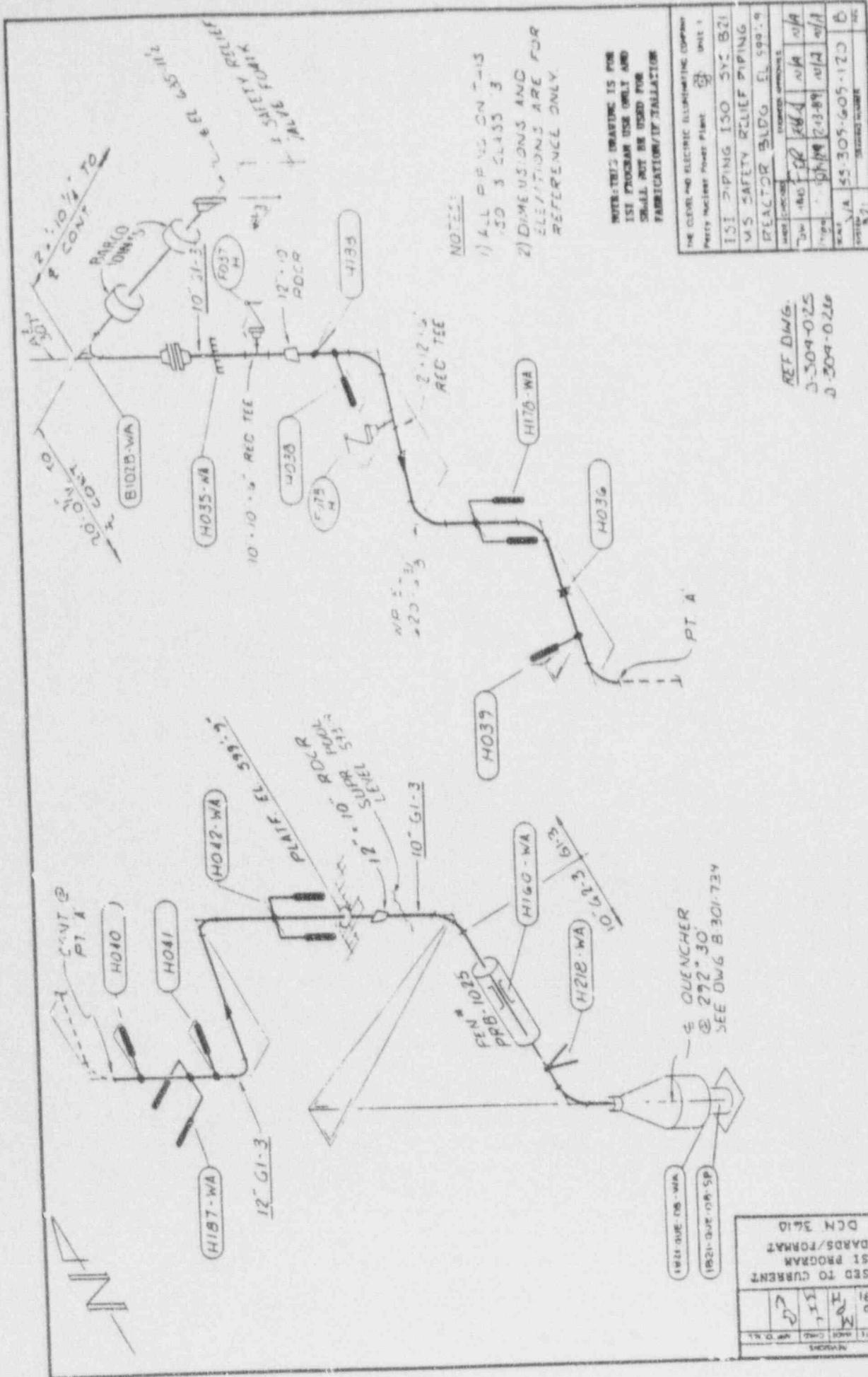
- NOTE:
- 1) ALL PIPING ON TP 1 TO 3 IS CLASS 3.
  - 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
  - 3) SEE DWGS 17-205-605-H6, H7 AND H8 FOR ALL ATTACH. POINTS FOR SUPPORT 810D-WA.

REF. DWG.  
D-304-025  
D-104-026

INSTRUMENTS DRAFTING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry National Plant File	Sheet 1
ISI PIPING ISO SYS B/L	
MS SAFETY RELIEF PIPING	
REACTOR BLDG EL 599.2	
DATE	APR 1966
BY	W. J. B. / A. J. A. / A. J. A.
CHECKED	W. J. B. / A. J. A. / A. J. A.
SCALE	AS SHOWN
PROJECT NO.	55-205-605-119
DRAWING NO.	B
REV.	

REV.	DATE	BY	CHKD	APPROVED
B	9/19/66	H	T	C
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DGN 3542				



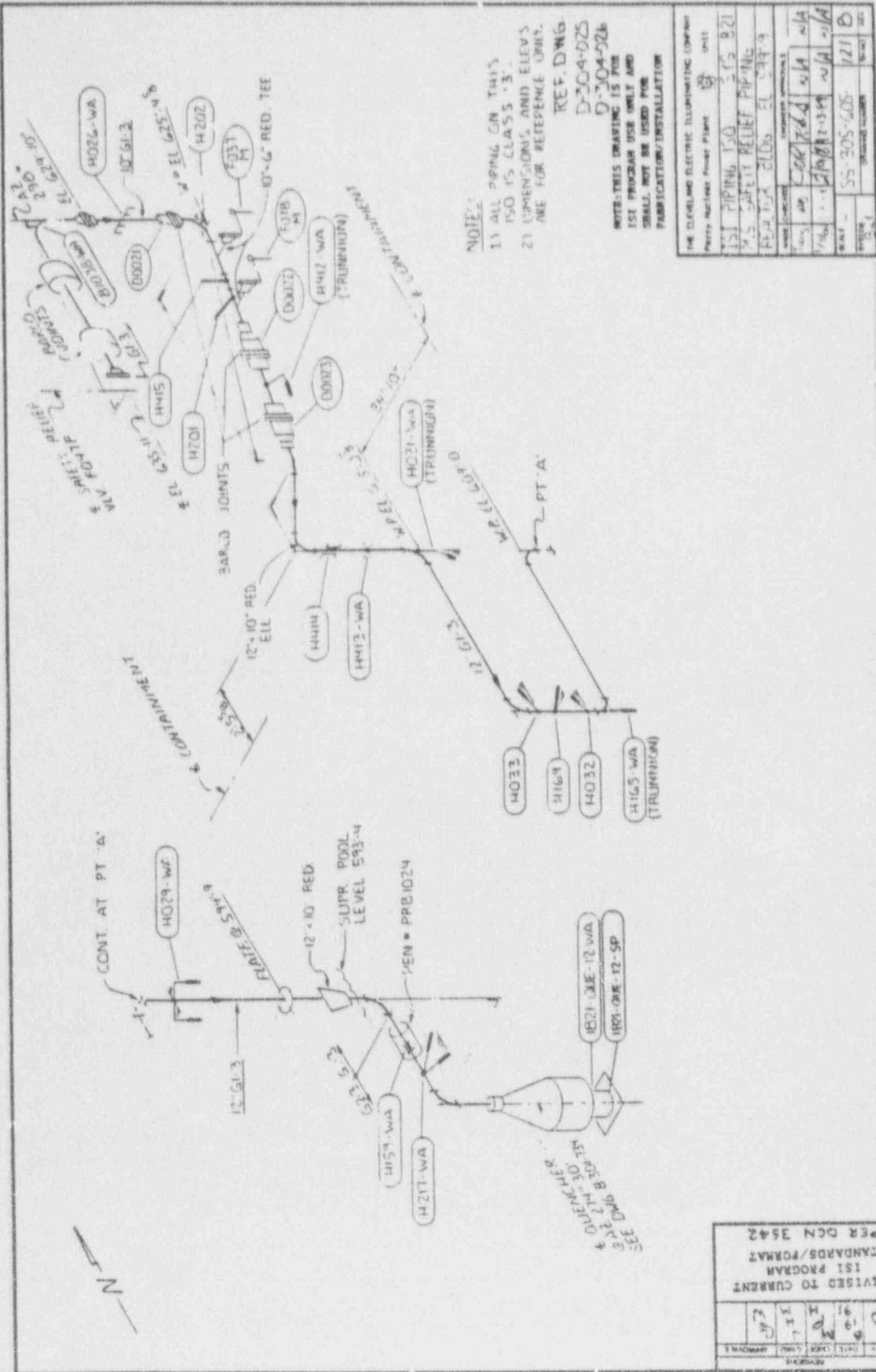
NOTES:  
 1) ALL PIPING ON T-13  
 IS CLASS 3  
 2) DIMENSIONS AND  
 ELEVATIONS ARE FOR  
 REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NAME: PIPING	UNIT: 1
151 PIPING ISO SYC B21	
MS SAFETY RELIEF PIPING	
REACTOR BLDG EL 590.9	
DATE: 10/19/84	DESIGNED BY: JH
SCALE: 1/4" = 1'-0"	CHECKED BY: JH
PROJECT NUMBER: 55-309-605-123	REV: 0

REF DWG.  
 3-304-025  
 3-304-026

REV	DATE	BY	CHKD	APP'D	REVISION
0	10/19/84	JH	JH		REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCH 3610

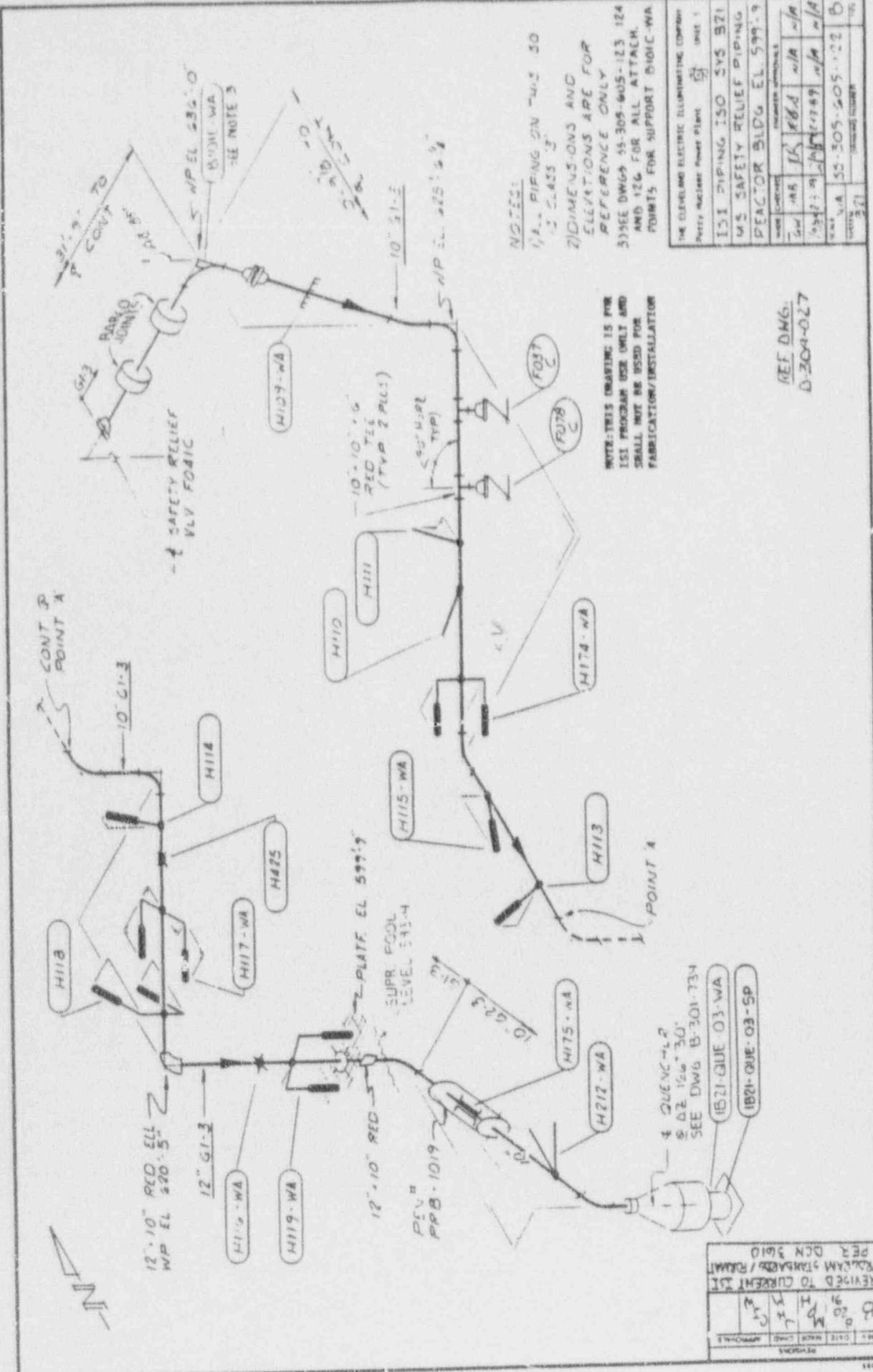


NOTE:  
 1) ALL PIPING ON THIS  
 150 IS CLASS '3'.  
 2) DIMENSIONS AND ELEVS  
 ARE FOR REFERENCE ONLY.

REF. DWG  
 D-304-025  
 D-304-026

THE FOLLOWING ELECTRIC ILLUMINATING EQUIPMENT  
 FROM THE FOLLOWING POWER PLANT

TYPE	QUANTITY	WATTAGE	VOLTS	PHASE
ISI PIPING 150	150	150	120	3
M.S. SAFETY RELIEF PIPING				
PER DCN 3542	51	51	120	3



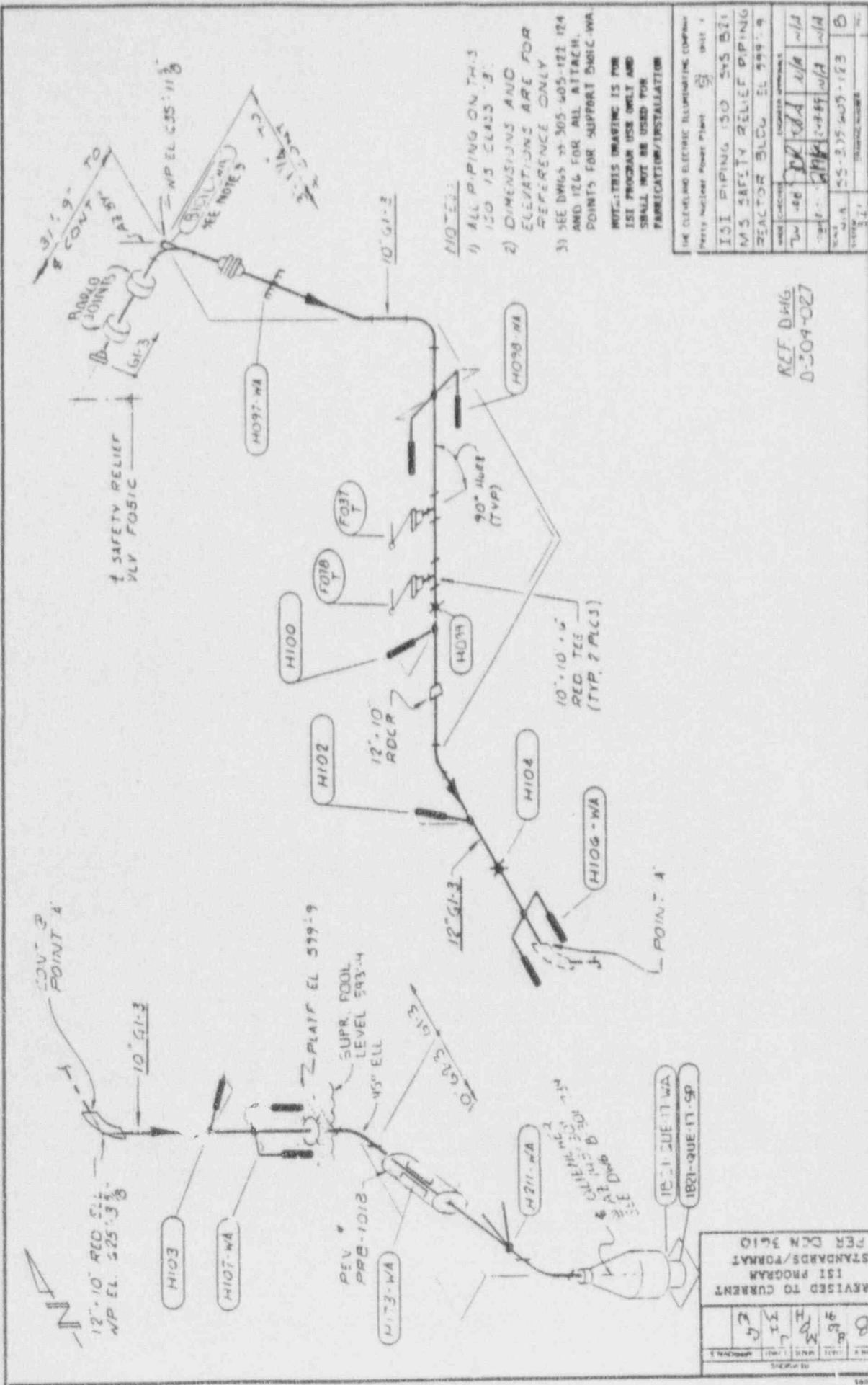
NOTES:  
 1) PIPING ON THIS JOINT IS CLASS 3  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY  
 3) SEE DWGS 55-305-605-123 124 AND 126 FOR ALL ATTACH POINTS FOR SUPPORT DIOIC-WA

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF DWG: D-304-027

THE ELEVING ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-605-124
DATE	12/1/78
DESIGNER	W.A.
CHECKER	J.R.
APPROVER	W.A.
SCALE	AS SHOWN
PROJECT	55-305-605-124
DRAWING NUMBER	124
SHEET	1

REVISED TO CURRENT ISI PROGRAM STANDARD / FORMAT	DATE	BY
PER DCN 3610	12/1/78	W.A.



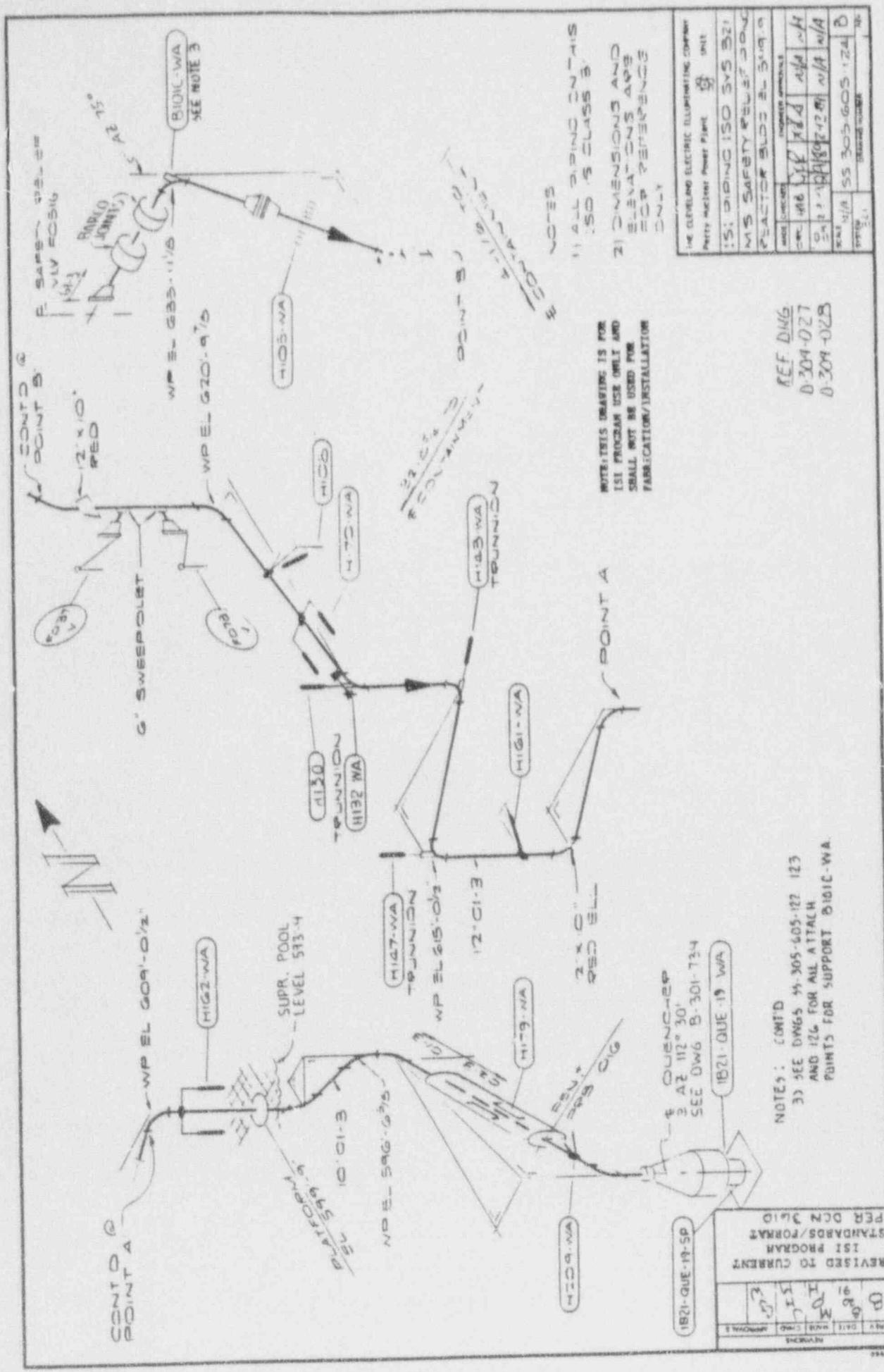
**NOTES:**

- 1) ALL PIPING ON THIS IS CLASS 'B'
  - 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
  - 3) SEE DWGS 55-305-405-122.124 AND 126 FOR ALL ATTACH. POINTS FOR SUPPORT DMS-C-WA
- NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ENGINEERING COMPANY	
Project: Nuclear Power Plant	Sheet: 1
ISI PIPING 150 545 B31	
M/S SAFETY RELIEF PIPING	
REACTOR BLDG EL 599.9	
DATE: 10/18/88	BY: JJA
SCALE: 1/4" = 1'-0"	PROJECT: 55-305-405-123
DESIGNED BY: JJA	CHECKED BY: JJA
APPROVED BY: JJA	DATE: 10/18/88

REF DWG  
D-304-027

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3610	DATE: 10/18/88	BY: JJA
1801-QUE-17-WA	1801-QUE-17-SP	



CONDUIT & CABLE ROUTING

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

NOTES:  
 1) ALL PIPING IS CLASS B  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PREPARED BY: [Signature]  
 DATE: [Date]

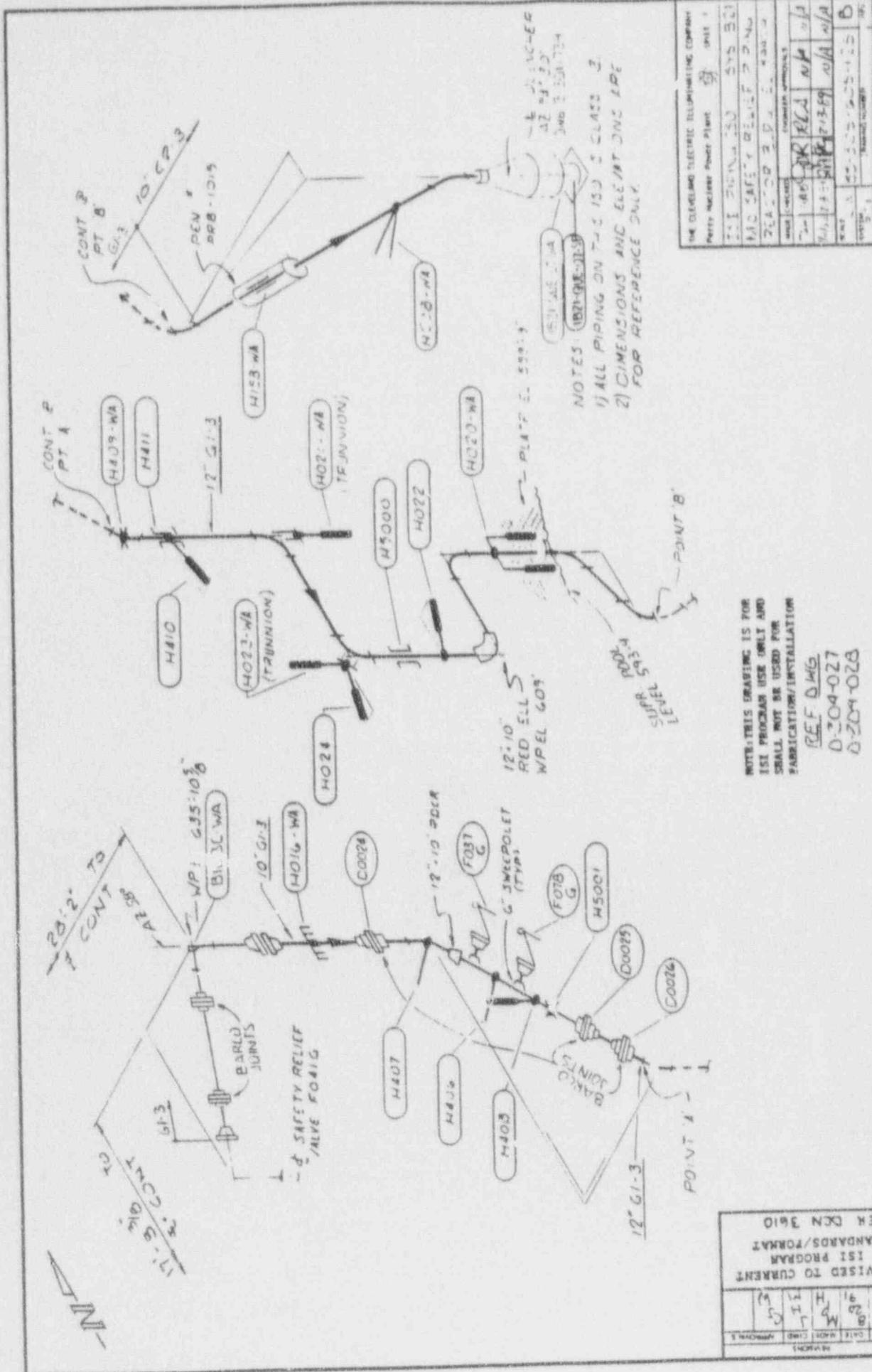
PROJECT: [Project Name]  
 DRAWING NO: [Drawing Number]  
 SHEET NO: [Sheet Number]

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3610

REF: DWG  
 0-304-027  
 0-304-028

NOTES:  
 3) SEE DWGS 44-305-605-127 123 AND 126 FOR ALL ATTACH POINTS FOR SUPPORT BIOLIC-WA.

DATE	BY	APP'D
10/12/01	IS	[Signature]
08/14/01	IS	[Signature]



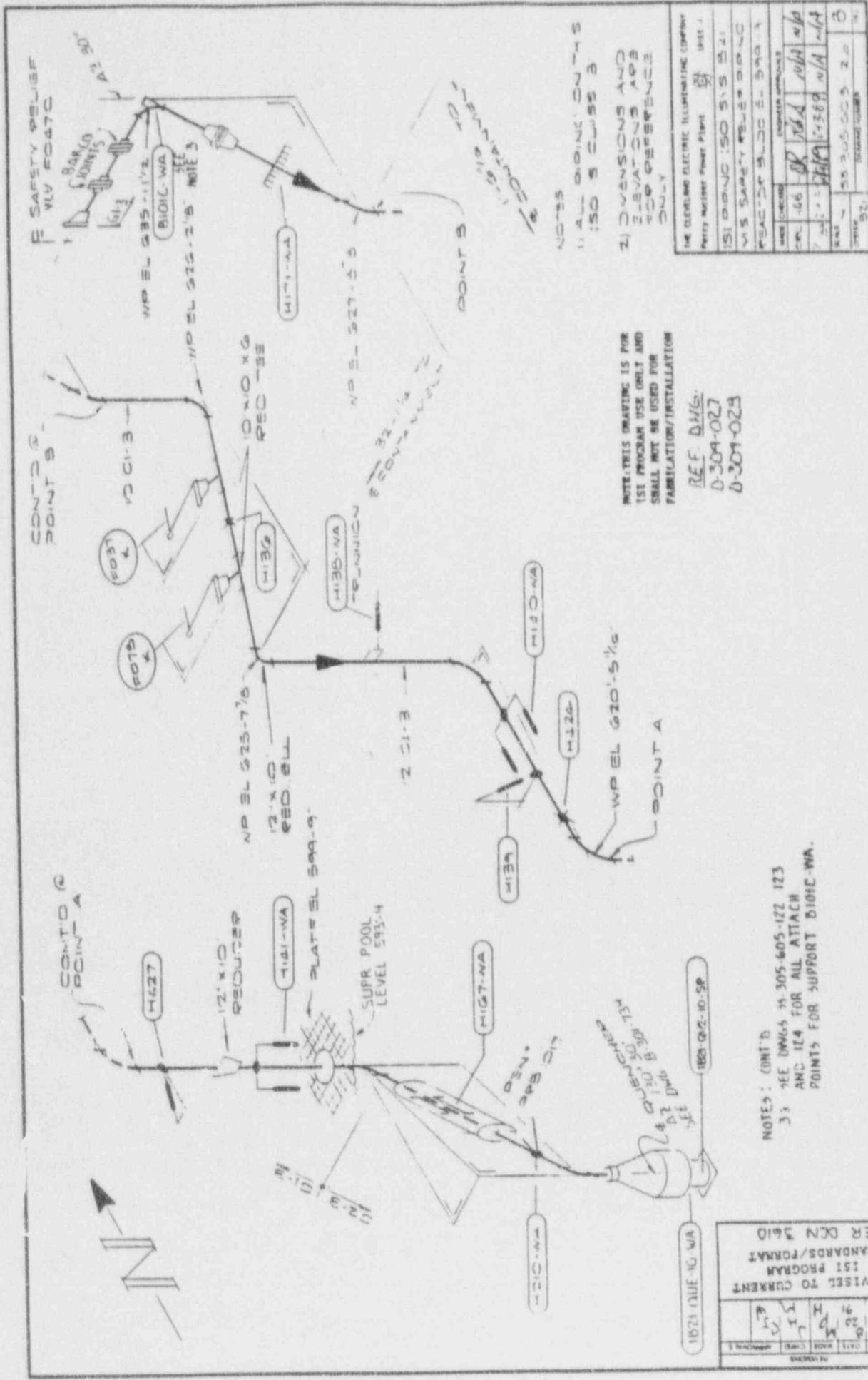
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY NUCLEAR Power Plant	
DATE	10/11/50
BY	W. J. M. C.
CHECKED	W. J. M. C.
APPROVED	W. J. M. C.
SCALE	AS SHOWN
PROJECT	10/11/50
NO.	10/11/50
REV.	10/11/50
BY	W. J. M. C.
CHECKED	W. J. M. C.
APPROVED	W. J. M. C.

NOTES  
 1) ALL PIPING ON T-10 IS 3 CLASS 3  
 2) DIMENSIONS AND ELEMENT DMS ARE FOR REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF DWG  
 0-204-027  
 0-204-028

REVISED TO CURRENT	ISI PROGRAM	STANDARDS/FORMAT	PER DCM 3610
DATE	BY	CHKD	APPD
10/11/50	W. J. M. C.	W. J. M. C.	W. J. M. C.



F SAFETY RELIEF VALVE FC47C

CONT'D POINT B

CONT'D POINT A

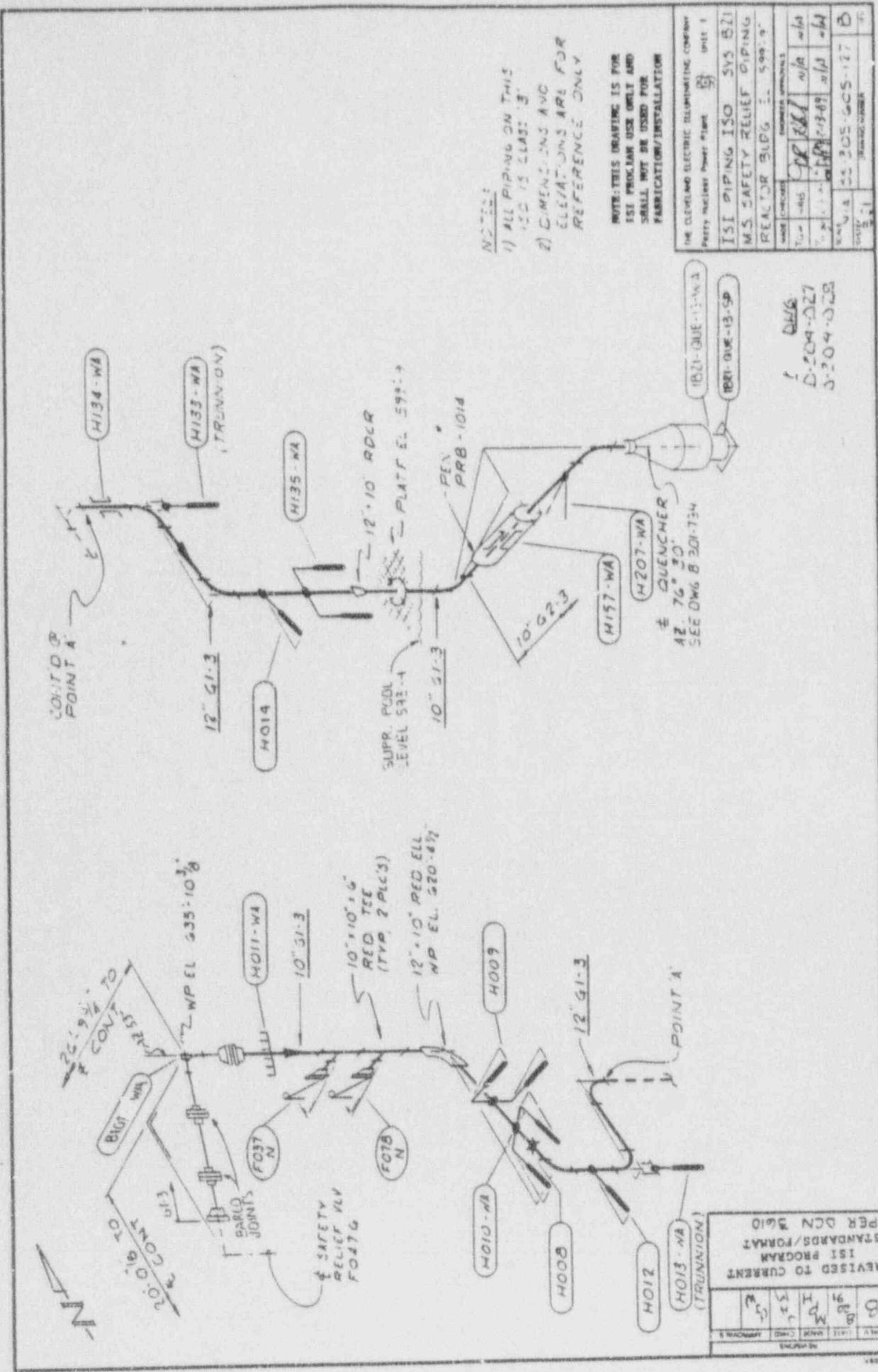
NOTES  
 1) ALL DIMENSIONS ARE IN INCHES  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

NOTE: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUSTRATING COMPANY	
Project Name	FC47C
Sheet No.	151-DWG-505122-123
Scale	AS SHOWN
Author	W.S. SAFETY RELIEF VALVE
Checker	W.S. SAFETY RELIEF VALVE
Designer	W.S. SAFETY RELIEF VALVE
Drawn	W.S. SAFETY RELIEF VALVE
Checked	W.S. SAFETY RELIEF VALVE
Approved	W.S. SAFETY RELIEF VALVE

NOTES: CONT'D  
 3) SEE DWG'S 505-605-122-123 AND 124 FOR ALL ATTACH POINTS FOR SUPPORT B101C-WA.

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 5410
DATE: 10/16/91
BY: H.W.
CHK: H.W.
APP: H.W.
DES: H.W.



NOTES:  
 1) ALL PIPING ON THIS  
 150 IS CLASS 'B'  
 2) DIMENSIONS AND  
 ELEVATIONS ARE FOR  
 REFERENCE ONLY

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

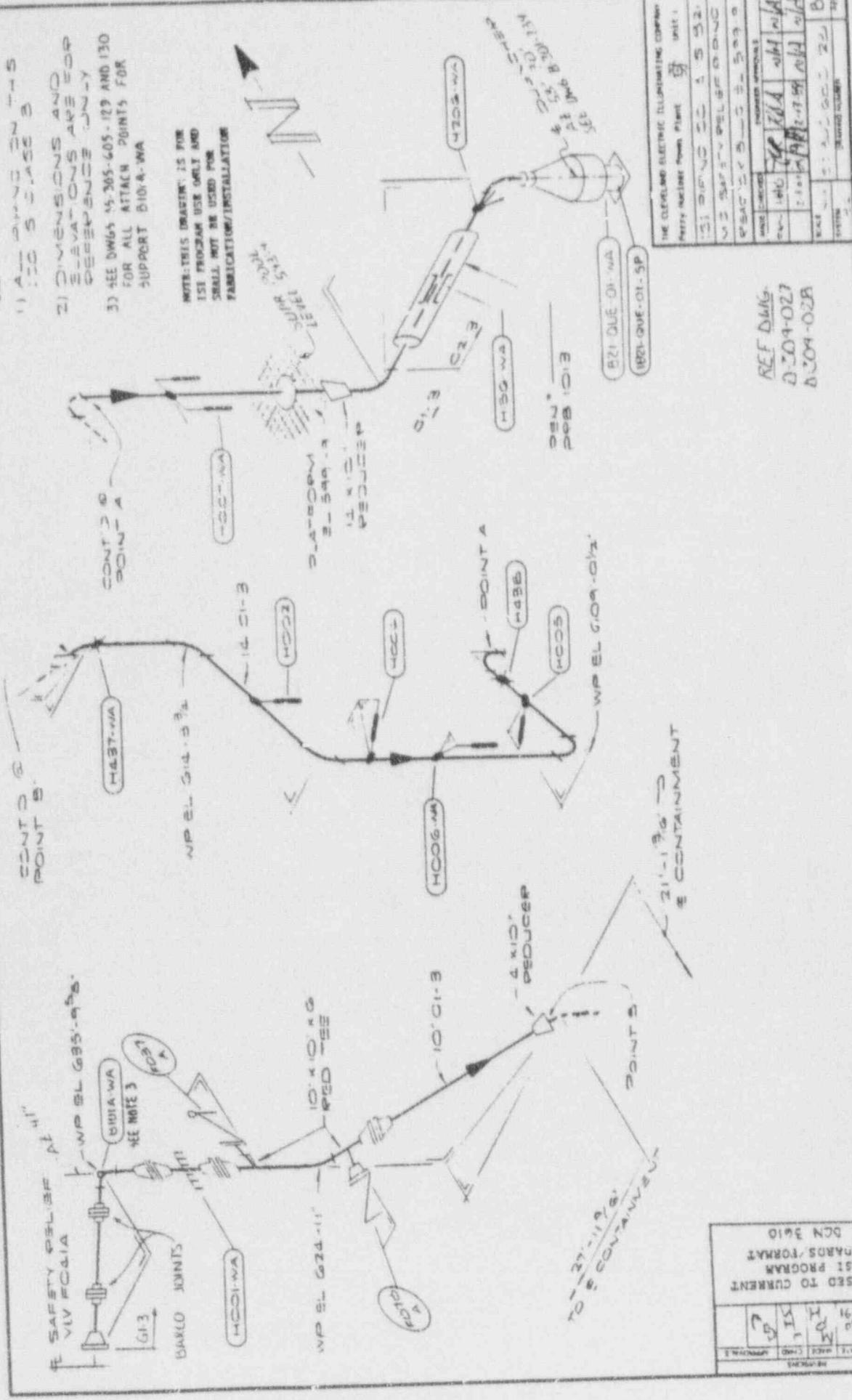
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Reactor Bldg	Sheet: 1
ISI PIPING ISO SYS (B2)	
MS SAFETY RELIEF PIPING	
REACTOR BLDG E. 500.9'	
DATE: 11/13/89	BY: [Signature]
SCALE: AS SHOWN	PROJECT NUMBER: 33-205-GCS-127

1. DWG  
 D-204-027  
 3-204-028

REV	BY	DATE	DESCRIPTION
1	DR	11/13/89	REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3610

- NOTES
- 1) ALL DIMENSIONS ARE IN FEET
  - 2) DIMENSIONS AND SEPARATIONS ARE FOR REFERENCE ONLY
  - 3) SEE DWGS 15-305-605-129 AND 130 FOR ALL ATTACH POINTS FOR SUPPORT B10-4-WA

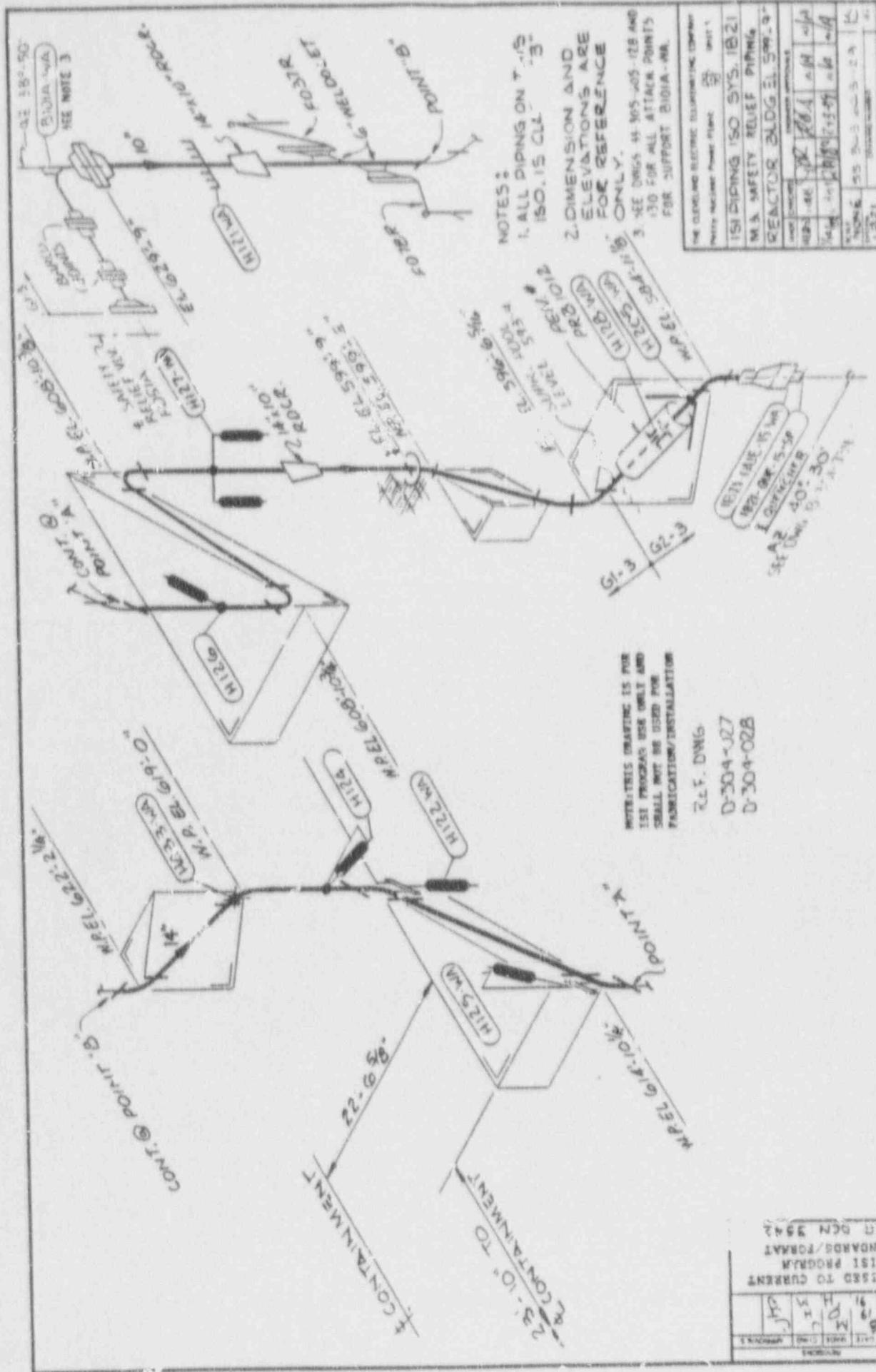
NOTE: THIS DRAWING IS FOR 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PERRY MACHINE Plant	
NO. 151-305-605-129	DATE 1-5-52
NO. 151-305-605-130	DATE 1-5-52
NO. 151-305-605-131	DATE 1-5-52
NO. 151-305-605-132	DATE 1-5-52
NO. 151-305-605-133	DATE 1-5-52
NO. 151-305-605-134	DATE 1-5-52
NO. 151-305-605-135	DATE 1-5-52
NO. 151-305-605-136	DATE 1-5-52
NO. 151-305-605-137	DATE 1-5-52
NO. 151-305-605-138	DATE 1-5-52
NO. 151-305-605-139	DATE 1-5-52
NO. 151-305-605-140	DATE 1-5-52
NO. 151-305-605-141	DATE 1-5-52
NO. 151-305-605-142	DATE 1-5-52
NO. 151-305-605-143	DATE 1-5-52
NO. 151-305-605-144	DATE 1-5-52
NO. 151-305-605-145	DATE 1-5-52
NO. 151-305-605-146	DATE 1-5-52
NO. 151-305-605-147	DATE 1-5-52
NO. 151-305-605-148	DATE 1-5-52
NO. 151-305-605-149	DATE 1-5-52
NO. 151-305-605-150	DATE 1-5-52

REF DWGS:  
D-204-027  
D-204-028

REVISED TO CURRENT 151 PROGRAM STANDARDS FORMAT PER DCN 3610
DATE 12/28/50
BY JIS
CHKD JIS
APPROVED JIS
PER DCN 3610



NOTES:

1. ALL PIPING ON THIS ISO IS CL. 3"
2. DIMENSION AND ELEVATIONS ARE FOR REFERENCE ONLY.
3. SEE DWGS 44-105-405-128 AND 130 FOR ALL ATTACK POINTS FOR SUPPORT BLDG. - MA.

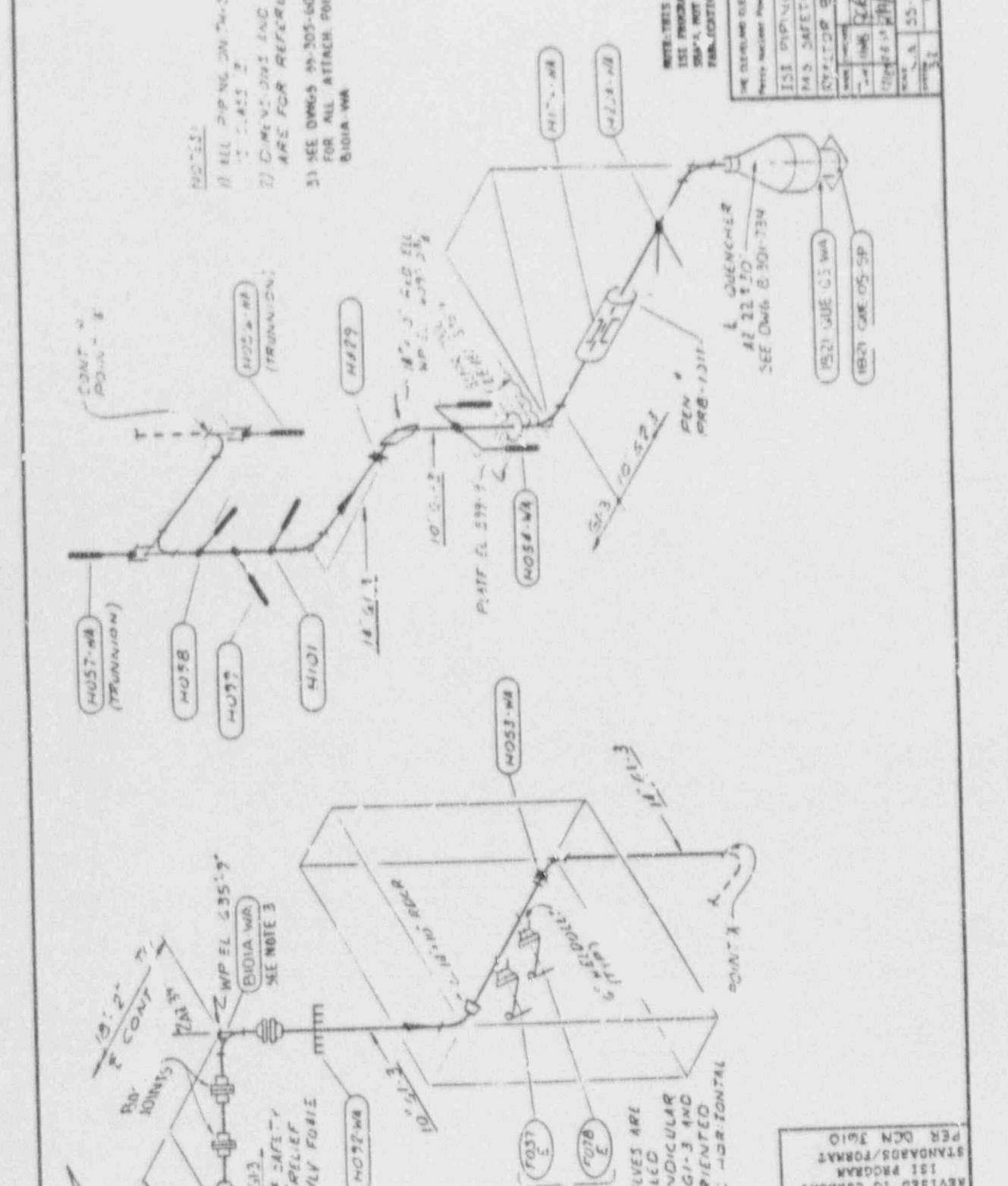
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 Safety National Patent Plant 23 1971

PROJECT	ISO PIPING ISO SYS. 1B21		
DRAWING NO.	M.A. SAFETY RELIEF PIPING		
ISSUE NO.	REACTOR BLDG. EL. 599.9		
DATE	08/84	08/84	08/84
BY	WJC	WJC	WJC
CHECKED	WJC	WJC	WJC
SCALE	AS SHOWN		
PROJECT NO.	44-105-405-128	44-105-405-129	44-105-405-130
SHEET NO.	55	56	57
TOTAL SHEETS	3		

NOTES: THIS DRAWING IS FOR  
 I&E PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

R.L.F. DWG  
 D-304-027  
 D-304-028

REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORAT	PER DCN 3542
D 8/91	M H	SH	WJC
23'-10" TO CONTAINMENT			
22'-6 3/8" CONTAINMENT			



NOTE:

1) ALL PIPING ON THIS DRAWING IS TO BE INSTALLED IN ACCORDANCE WITH THE DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

2) SEE DIMENSIONS 65-305-605-128 AND 129 FOR ALL ATTACH POINTS FOR SUPPORT BIOHA-WA.

REF. DWG.  
 D-304-027  
 D-304-028

NOTES: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 PUL. CONSTRUCTION/INSTALLATION

THE DEPARTMENT OF DEFENSE ELECTRONIC RESEARCH AND DEVELOPMENT CENTER	DATE	
PROJECT NUMBER	10	
ISS PIPING	150	5 301
M/S SAFETY RELIEF PIPING		
OFFICE BLDG	EL 590	
DATE	22 FEB 1966	
DESIGNER	WHS	
CHECKED	WHS	
SCALE	AS SHOWN	
	55-135-107-22	
	31	

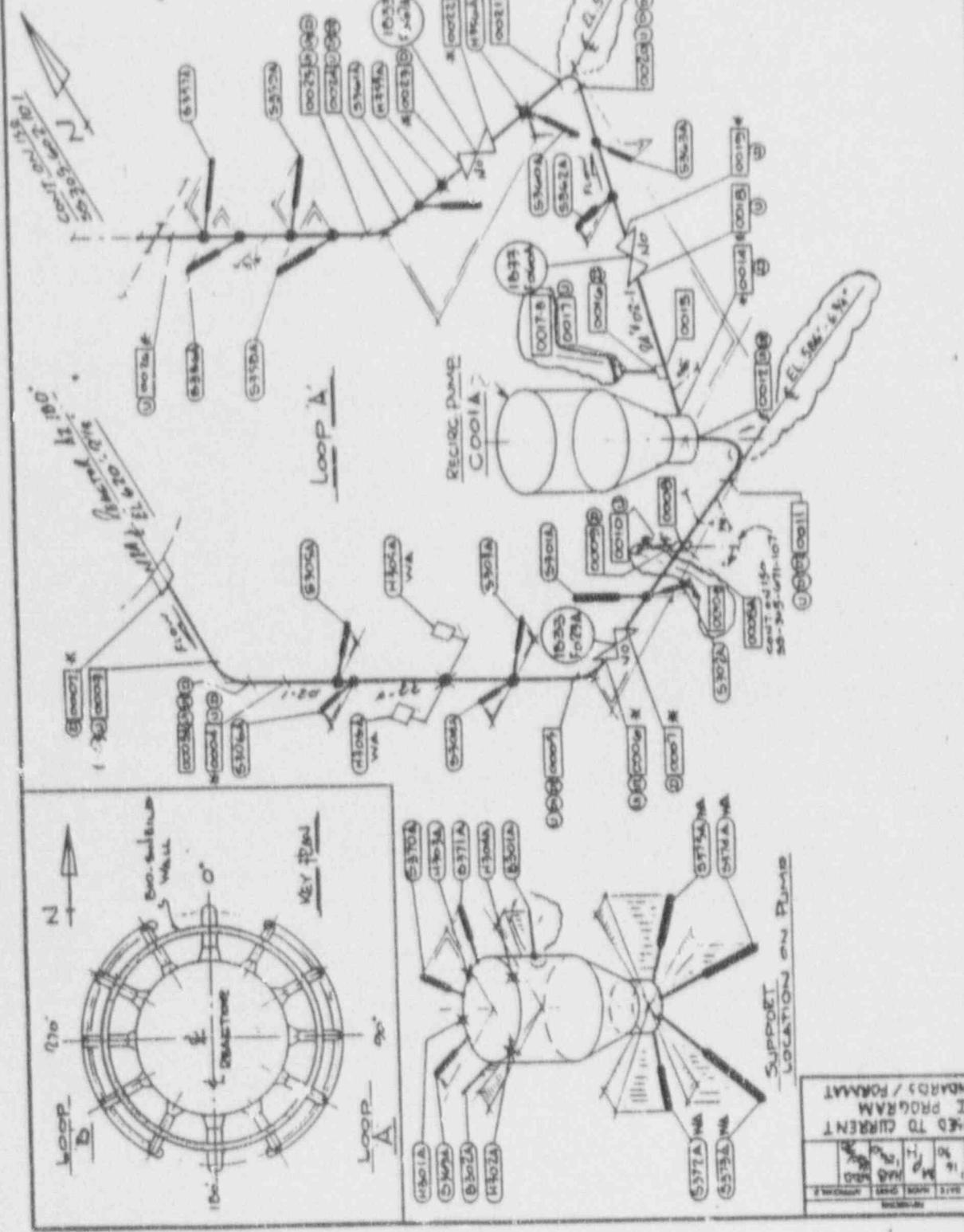
REVISIONS	NO	DATE	DESCRIPTION
	1	22 FEB 66	ISSUED FOR CONSTRUCTION
	2	22 FEB 66	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 5610



NOTE:  
 1 ALL PIPING ON THIS  
 IS 150 LB CLASS  
 2 PBI 00-01  
 151 B33-001  
 3 CIRCUMFERENTIAL WELDS  
 WELDED WITH AN AUTOMATIC  
 WAVE CARBONARC RESISTANT  
 CLADDING (CCG)

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEARING ELECTRIC ILLUMINATION COMPANY	
PROJECT NUMBER	55105-402-102
DATE	11/11/55
151 PIPING ISO SYS B33	
REACTOR REGULATION LOOP A	
CONTAINMENT HASIOL DRYWELL	
DESIGNED BY	W.A. HARRIS
CHECKED BY	W.A. HARRIS
DATE	11/11/55
SCALE	AS SHOWN
PROJECT NUMBER	55105-402-102
REV.	A



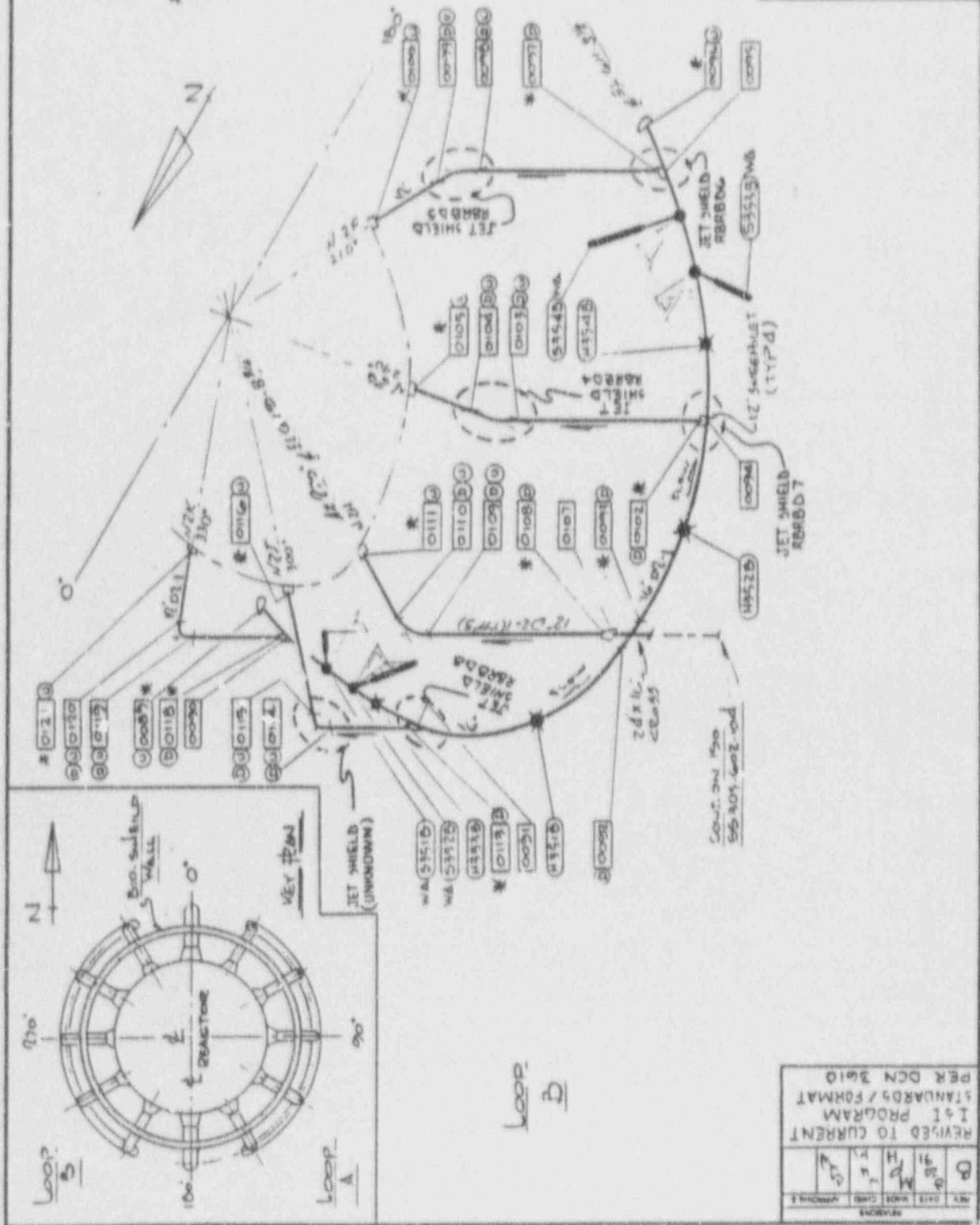
REVISION TO CURRENT ISI PROGRAM STANDARDS / FORMAT	A	11/11/55	W.A. HARRIS
	H	11/11/55	W.A. HARRIS
	M	11/11/55	W.A. HARRIS
	N	11/11/55	W.A. HARRIS
	O	11/11/55	W.A. HARRIS
	P	11/11/55	W.A. HARRIS
	Q	11/11/55	W.A. HARRIS
	R	11/11/55	W.A. HARRIS
	S	11/11/55	W.A. HARRIS
	T	11/11/55	W.A. HARRIS
	U	11/11/55	W.A. HARRIS
	V	11/11/55	W.A. HARRIS
	W	11/11/55	W.A. HARRIS
	X	11/11/55	W.A. HARRIS
	Y	11/11/55	W.A. HARRIS
	Z	11/11/55	W.A. HARRIS

NOTE -

- 1 ALL PIPING ON THIS IS 150 LB CLASS I
- 2 PSI 09-02
- 3 151-B33-002
- \* 3 COMPRESSURAL WELDS MARKED WITH AN ASTERISK HAVE CORROSION RESISTANT CLADDING (CCL)

INTER-TIE BRACING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-602-104
DATE	11/18/55
BY	W.A. BROWN
CHECKED BY	W.A. BROWN
DATE CHECKED	11/18/55
SCALE	AS SHOWN
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION



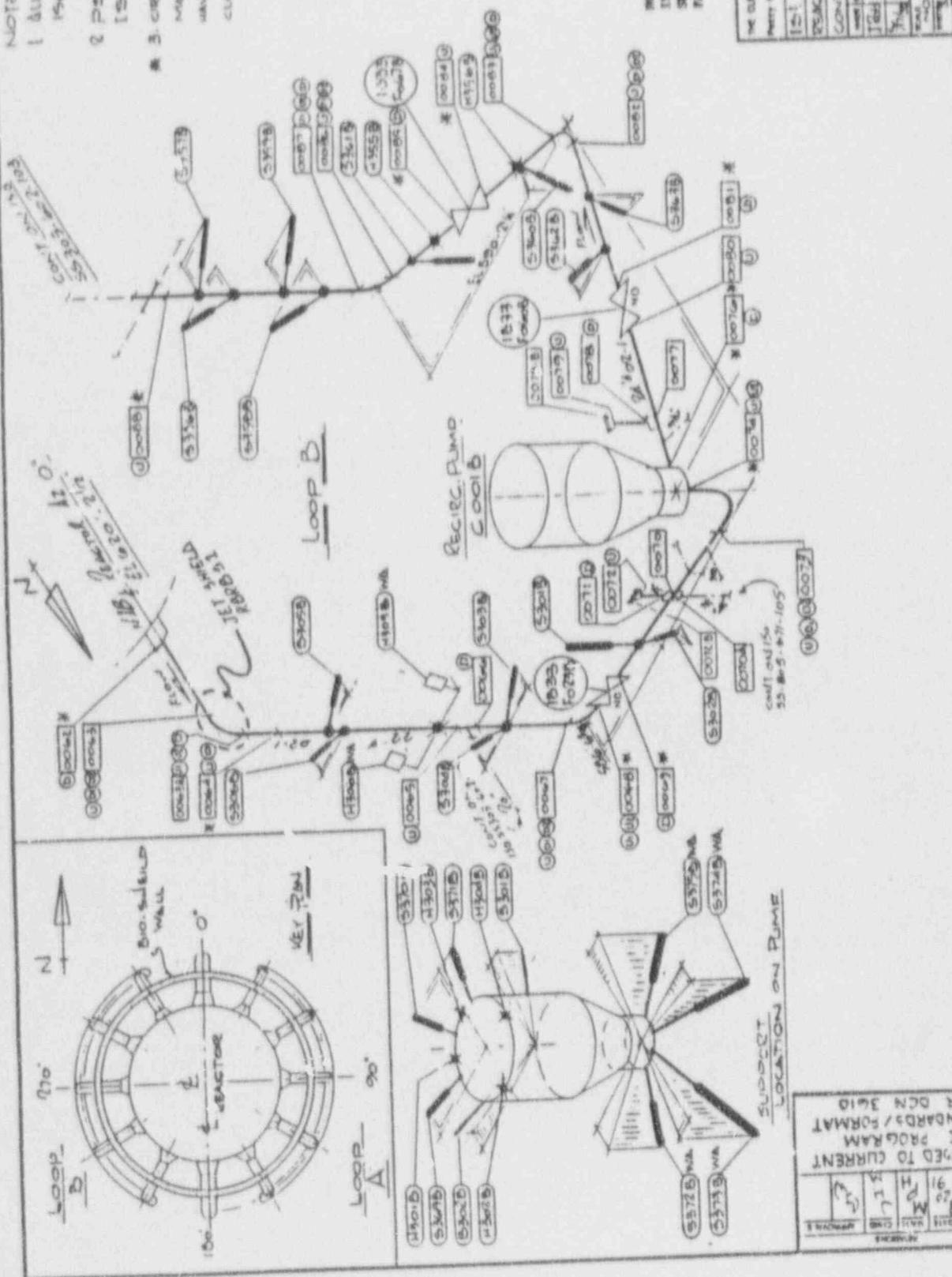
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION

REVISED TO CURRENT I & I PROGRAM STANDARDS / FORMAT PER DCM 3610

NOTE:  
 1. ALL PIPING IN THIS  
 150 IS CLASS I  
 2. PS: 09-02  
 151 B33-002  
 3. CIRCUMFERENTIAL WELDS  
 MARKED WITH AN ASTERISK  
 HAVE CORROSION RESISTANT  
 CLADDING (CRC).

INVESTIGATING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NO. OF SHEETS	151
TITLE	REACTOR DECONTAMINATION LOOP B
DATE	10-20-85
BY	...
CHECKED	...
APPROVED	...



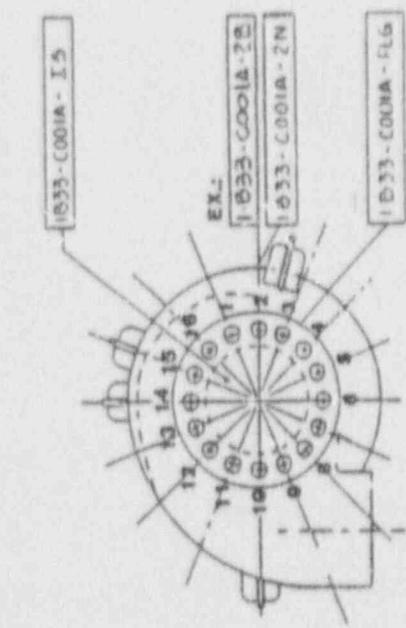
BYRON JACKSON PUMPS  
DWG. NO. IF-7837 REV. C.  
DWG. NO. IF-6865 REV. D.

NOTE

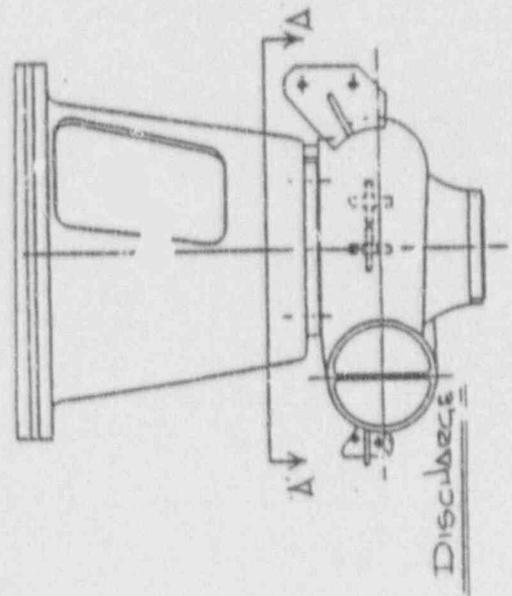
1. THE PUMPS ON THIS DWG. ARE CLASS '1'
2. THIS DWG. IS TYPICAL FOR RECIRC PUMPS 1-B33-COO1A AND 1-B33-COO1B
3. PSI DWG. 09-03  
 151 B33-003 / B33-004

REF DWG.  
 6E DWG. 79E28N

NOTE: THIS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATORY INSTALLATION



VIEW A-A



SUCTION

REV.	DATE	BY	CHK.	APP.	DESCRIPTION
1	8/91	M	H		REVISED TO CURRENT STANDARD / FORMAT PER DCN 3542

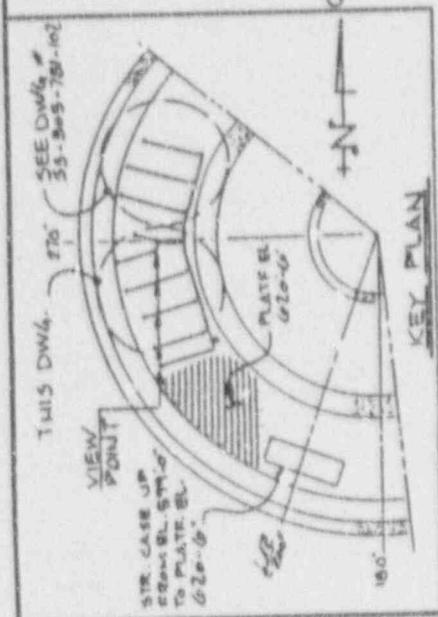
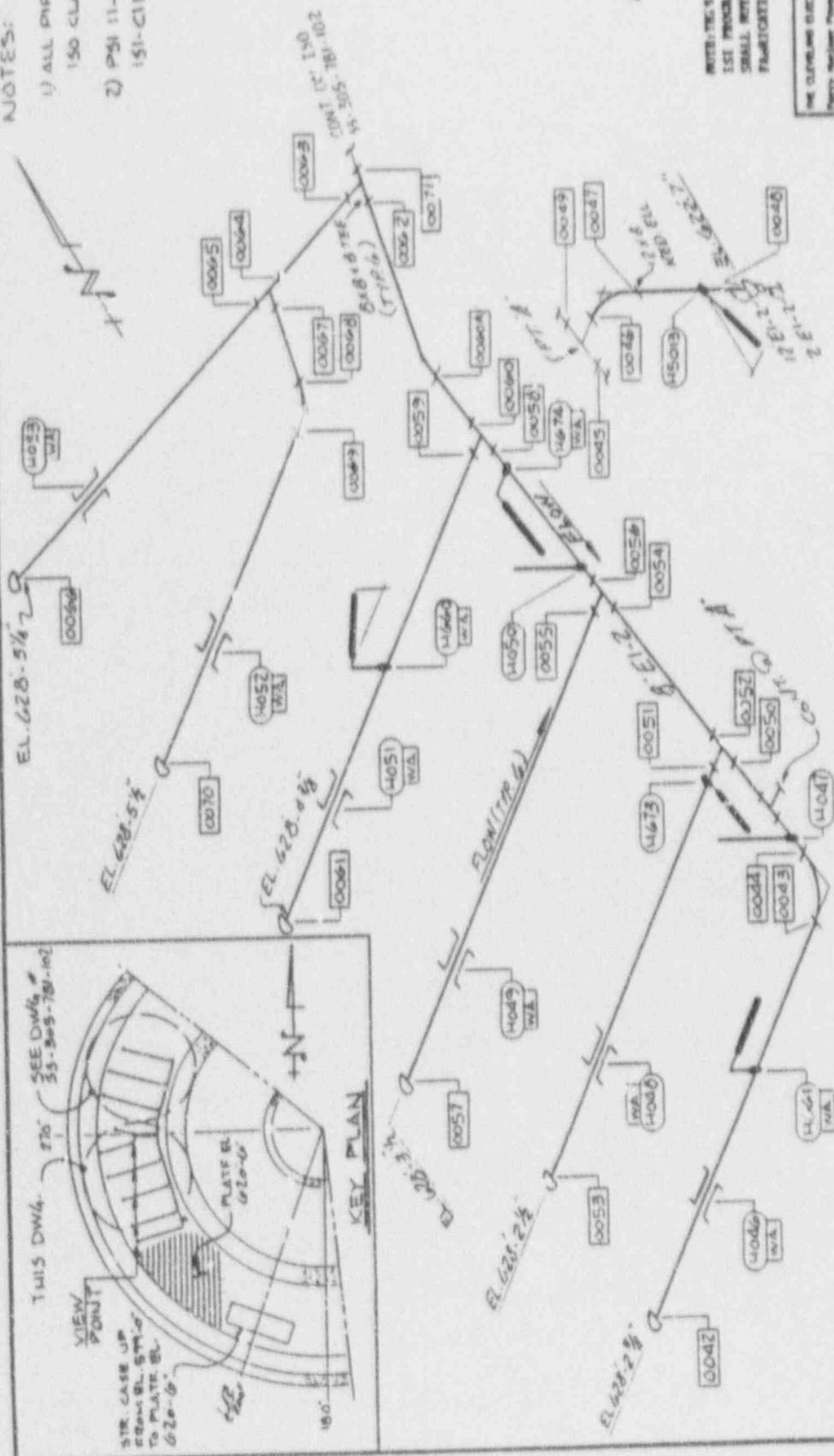
THE DEVELOPER ELECTRIC SUPPLYING COMPANY		PARTY Nuclear Power Plant		UNIT	
IS: PIPING DWG. SYS. B33		RECIRC PUMP COOLANT		BOLTING ARRANGEMENT	
REV.	DATE	BY	CHK.	APP.	DESCRIPTION
1	8/91	M	H		REVISED TO CURRENT STANDARD / FORMAT PER DCN 3542

**NOTES:**

- 1) ALL PIPING ON THIS 150 CLASS 2
- 2) PSI 11-01 151-C11-001

REF 0.14%  
D-204-877

INSTALLER'S DRAWING IS FOR USE IN THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



REVISION	
NO.	DESCRIPTION
1	REVISED TO CURRENT ISI PROGRAM STANDARDS / FORMAT PER DCN 3610

THE FOLLOWING ELECTRICAL ILLUSTRATIONS CONFORM WITH THE	
Drawn	Checked
151 PIPING 150	5151 C11
CONTROL ROOM DRIVE LOOP A	
REACTION BLOCK PLATE 628'-6"	
DATE: 11-08-87	BY: MIA
SCALE: 1/8" = 1'-0"	APP: MIA
PROJECT: 53-805-871-101	APP: MIA
SHEET: 61	TOTAL SHEETS: 61

NOTES:

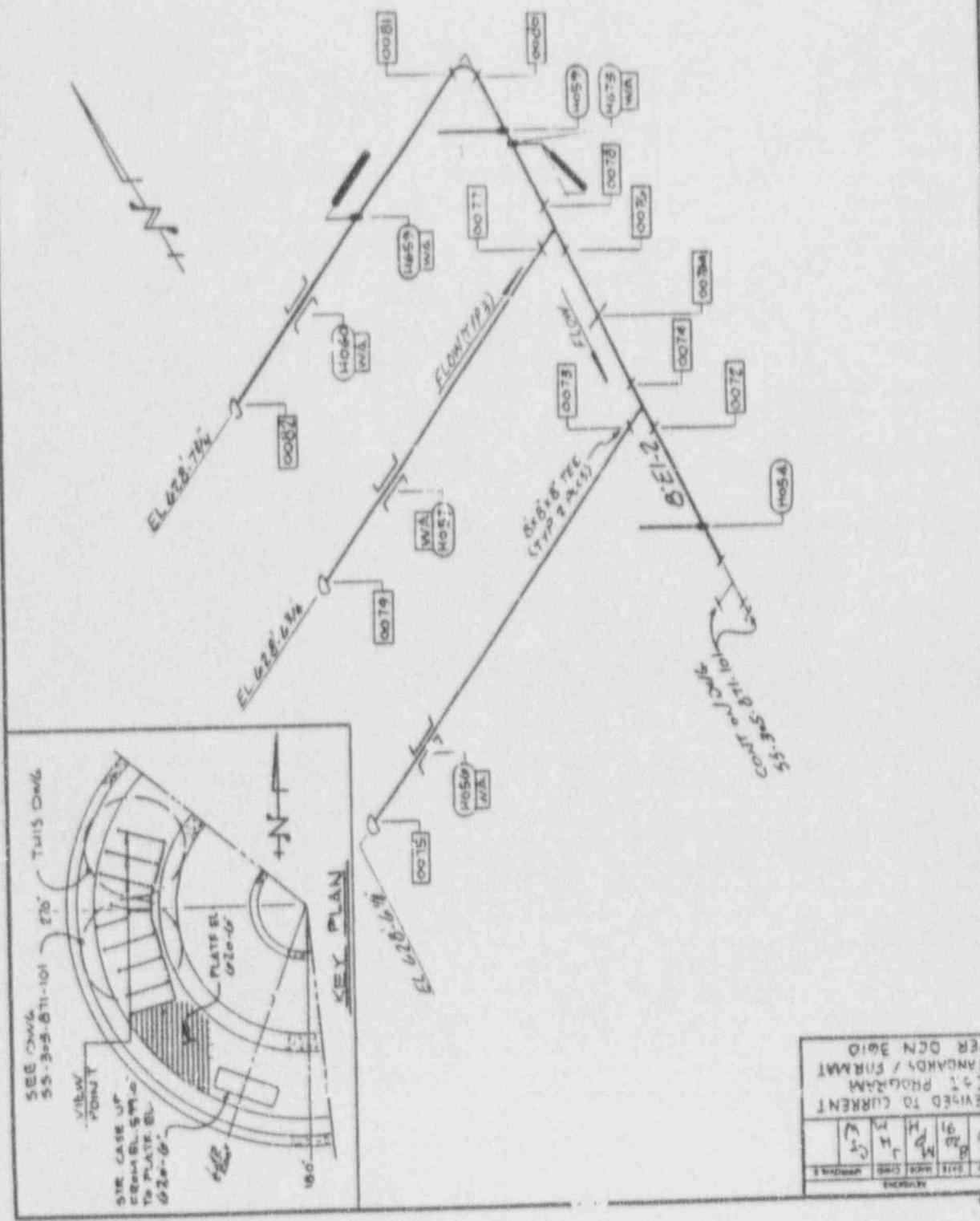
- 1) ALL PIPING IS CLASS 2
- 2) PSI-11-01 (51-C11-001)

REF DWG 0-204-B77

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

NO	REV	DATE	BY	CHK	APP
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

151 PIPING ISB 511-C11  
 CONTROL ROOM DRIVE LOOP A  
 REACTOR DOME PLATE 020-6



NO	REV	DATE	BY	CHK	APP
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

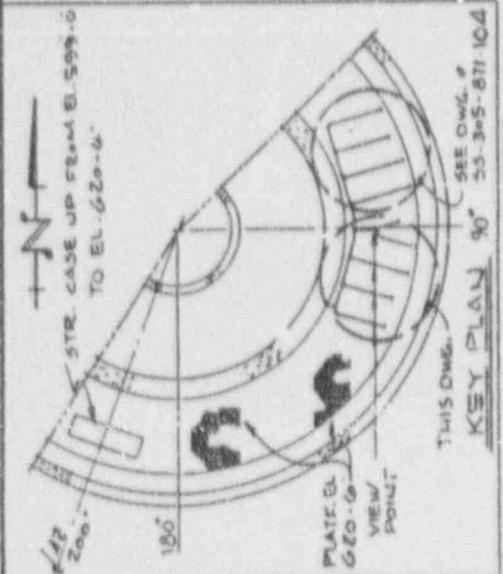
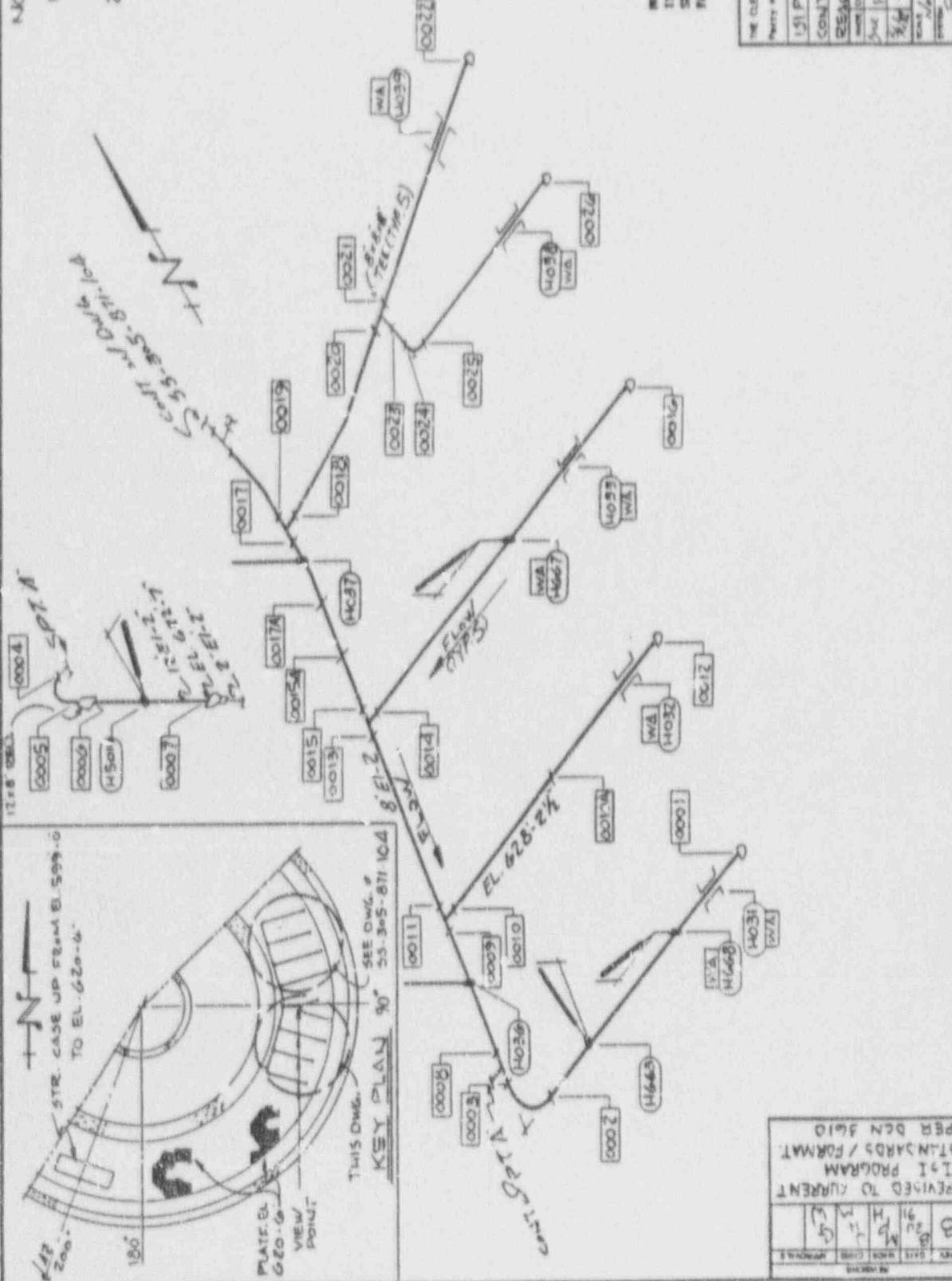
REVISED TO CURRENT IOT PROGRAM STANDARDS / ENRM PER DCN 3610

NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS "2"
- 2) PSI 11-02 151-C11-002

SEE DWG 0-204-875

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATOR/INSTALLATION



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Part of Electric Plant Plans

151 PIPING 150 STS: C11  
CONT 2nd 200 DRIVE LOOP D  
REACTOR BUILD PLATE 620-6

REV	BY	CHKD	DATE	DESCRIPTION
1	CJ	JSA	1/18	
2	JSA	1/25		
3	1/10	4/10/74		

DATE: 1/18/74  
DRAWN BY: CJ  
CHECKED BY: JSA  
APPROVED BY: [Signature]  
TITLE: 151 PIPING 150 STS: C11

REV	DATE	DESCRIPTION
1		REVISED TO CURRENT I+I PROGRAM STANDARDS / FORMAT PER DCN #10

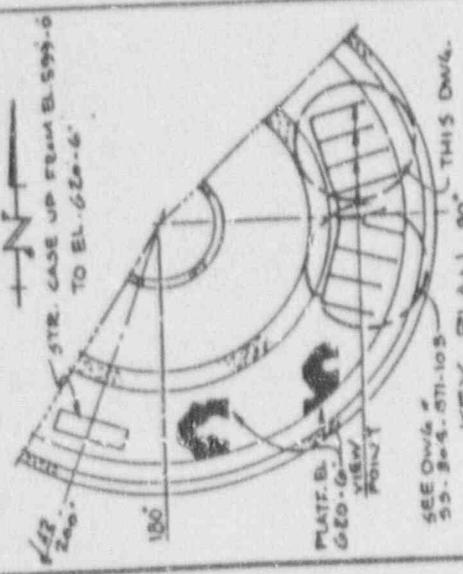
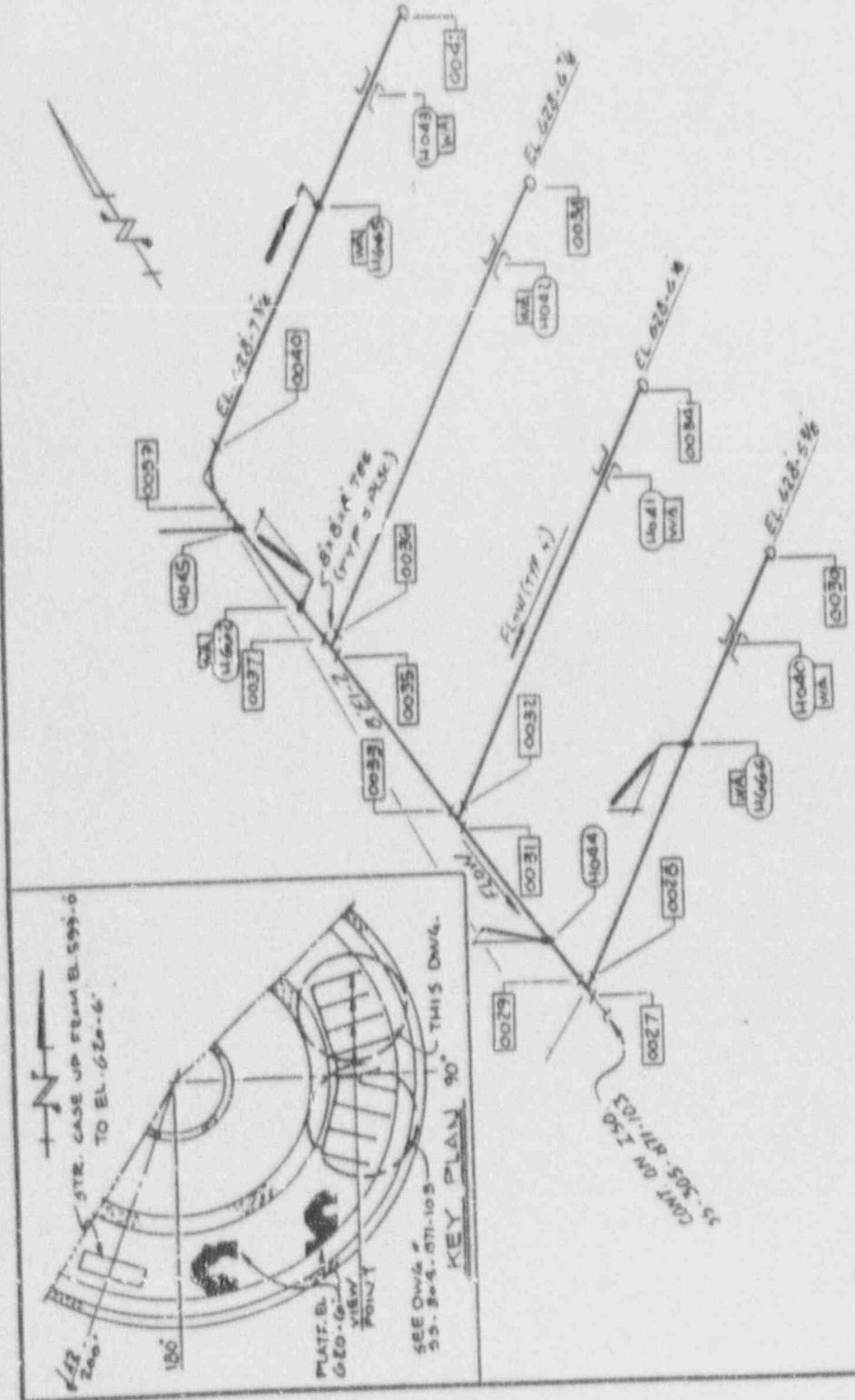
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS "Z"
- 2) PSI 11-02 151-C11-002

REF DWG D-304-078

NUMBERS DRAWING IS FOR I&I PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FLOW AND ELECTRIC ILLUMINATING COMPANY	
Project Number	Flow 11043
Sheet Number	151-004
Date	11/1/68
Scale	AS SHOWN
Contract Number	55-305-871-104 D
Revision	1
Drawn By	[Signature]
Checked By	[Signature]
Approved By	[Signature]



DESIGNED TO CURRENT I&I PROGRAM STANDARDS/FORMAT PER DCN 3610
DATE: 11/1/68
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
PROJECT NUMBER: 55-305-871-104 D
SHEET NUMBER: 1

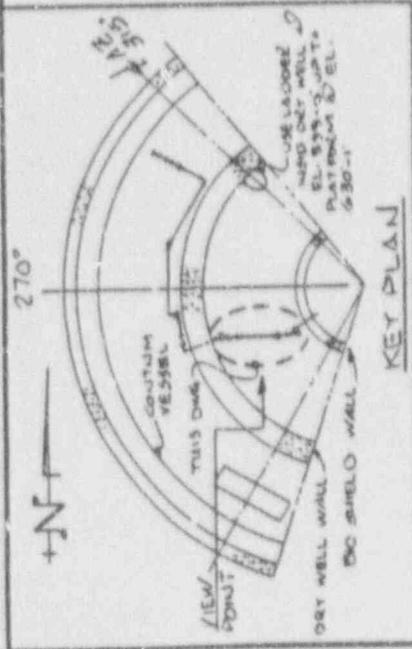
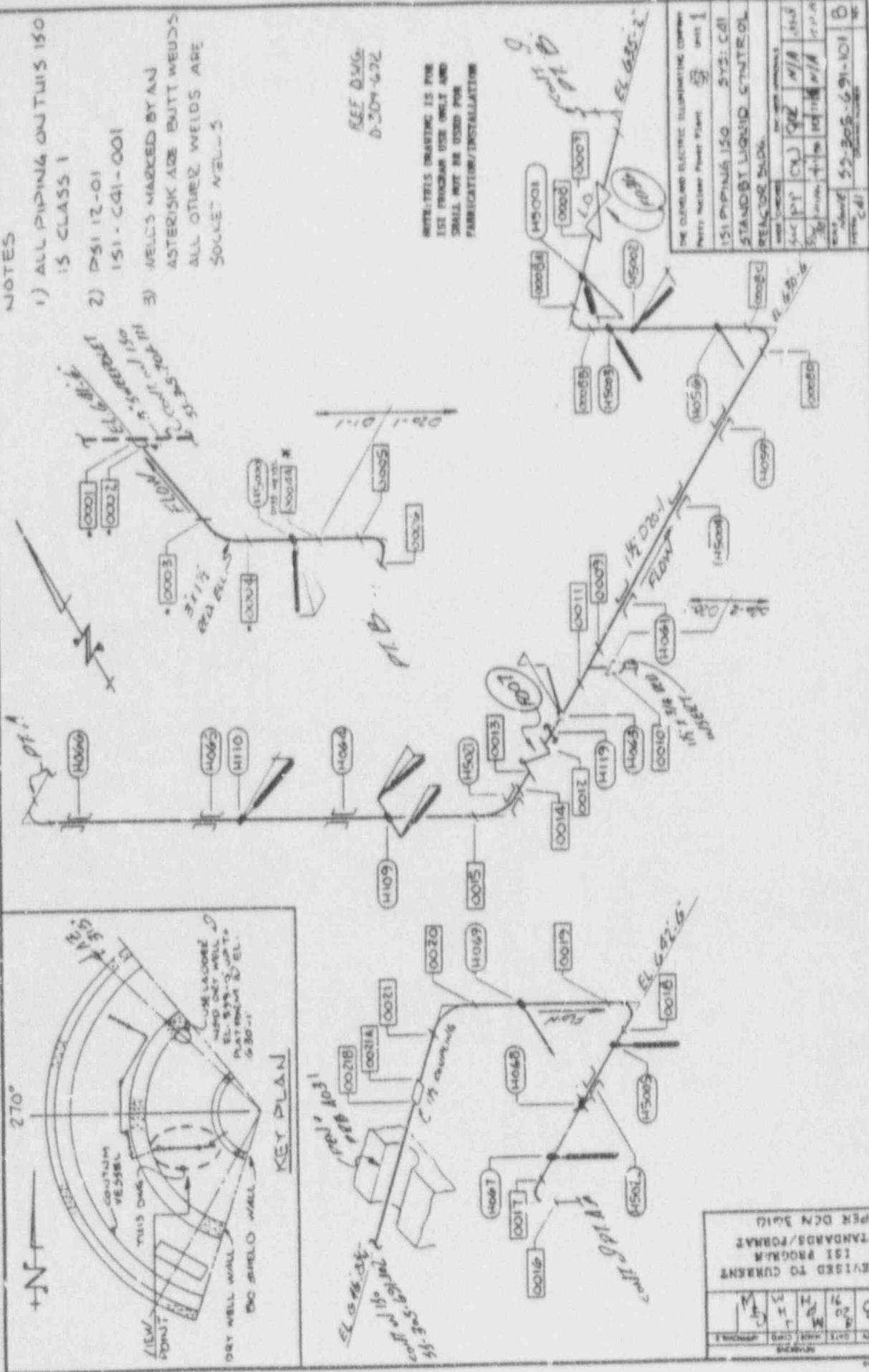


NOTES

- 1) ALL PIPING OUTLINS 150 IS CLASS 1
- 2) PSI 12-01 151-C41-001
- 3) WELDS MARKED BY AN ASTERISK ARE BUTT WELDS ALL OTHER WELDS ARE SOLLET WELDS

SEE D.W.G. D-304-632

WITRETT'S DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



REVISED TO CURRENT STANDARDS/FORMAT PER DCM 3010					
DATE	BY	CHKD	APP'D	REV	DESCRIPTION
10/11/88	WJ	WJ		1	REVISED TO CURRENT STANDARDS/FORMAT PER DCM 3010

THE CHEMICAL ELECTRIC ILLUMINATING COMPANY		Sheet 1	
Perry Nuclear Power Plant		52	
151 PIPING 150	SYST: C41		
STANDBY LIQUID CENTER OF REACTOR BLOCK			
DATE: 10/11/88	BY: WJ	CHKD: WJ	APP'D: WJ
REV: 1	REV: 1	REV: 1	REV: 1
WORKSHEET	52-305-631-101		
DATE	10/11/88		

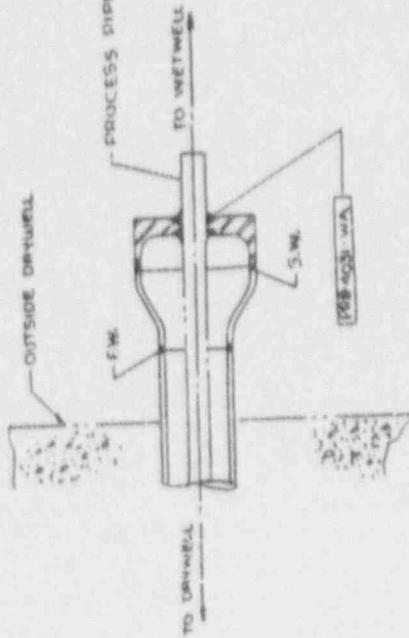
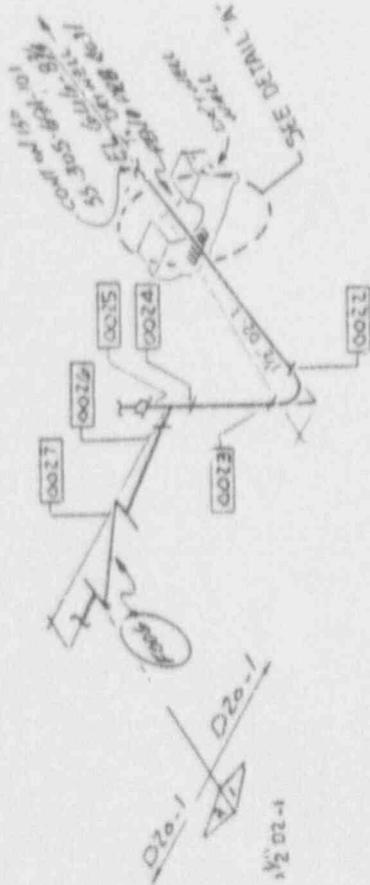
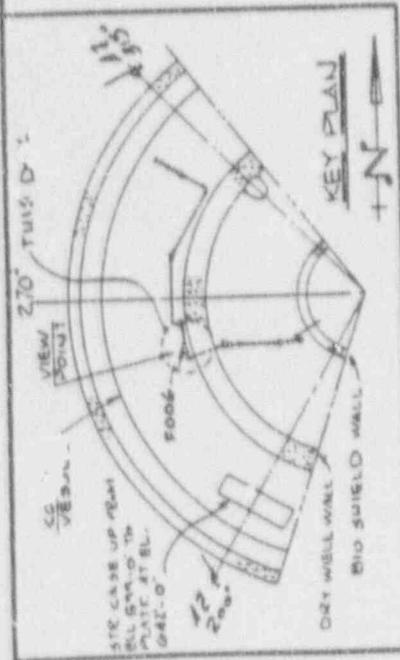
NOTES:

- 1) ALL PIPING ON THIS IS CLASS 1
- 2) PSI 12-01 / 12-02  
151-241-001 / 241-002
- 3) ALL WELDS ARE SOCKET WELDS.

REV. DWG.  
D-309-692

OTHER THIS DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CHEVROLE ELECTRIC ILLUMINATING COMPANY	PROJECT NAME	POWER PLANT	5	SHEET	1
151 PROGRAM	50	515: C&I			
STANDBY LIGHT CONTROL					
REACTOR BLDG.					
REV	DATE	BY	CHK	APP	REV
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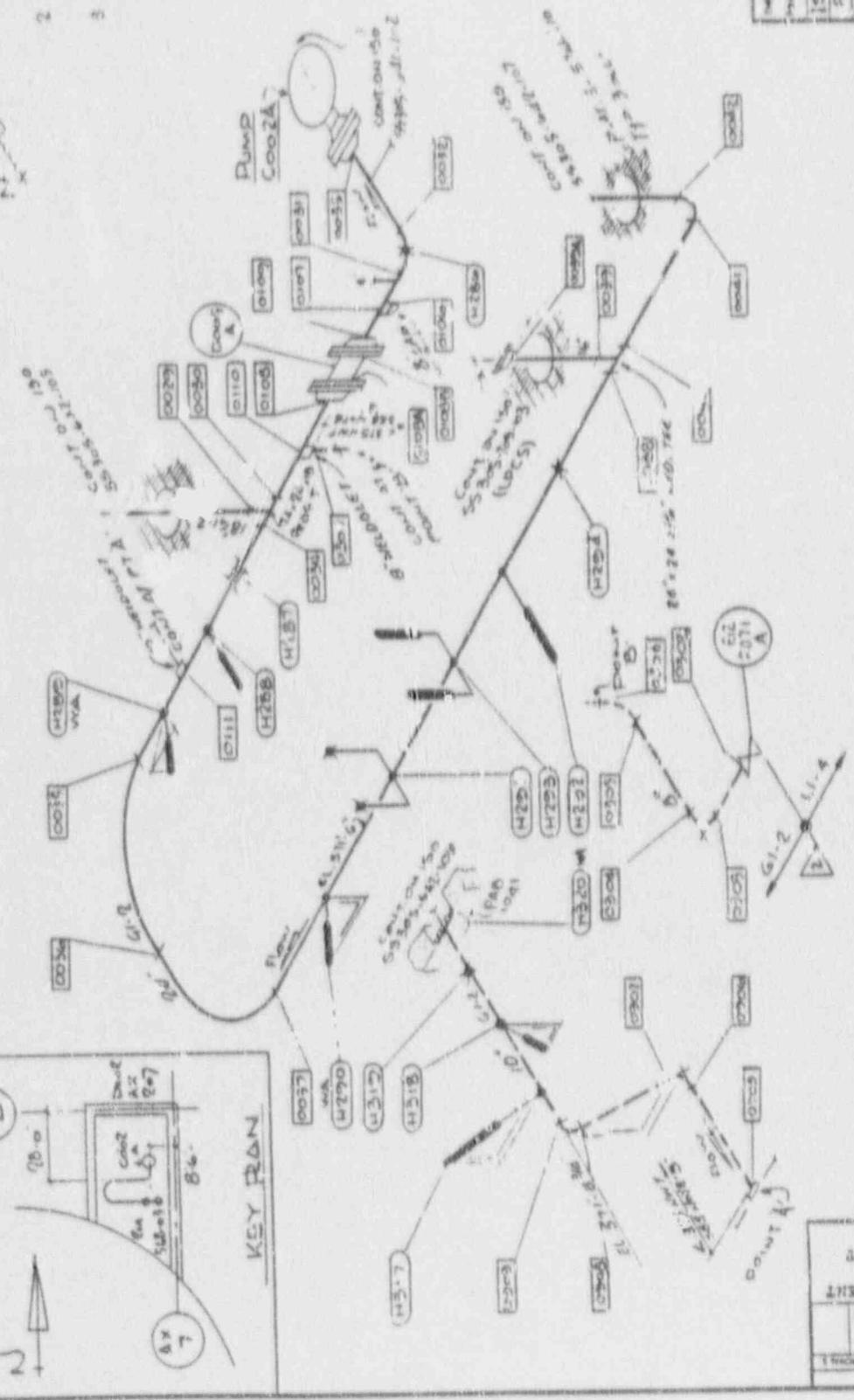
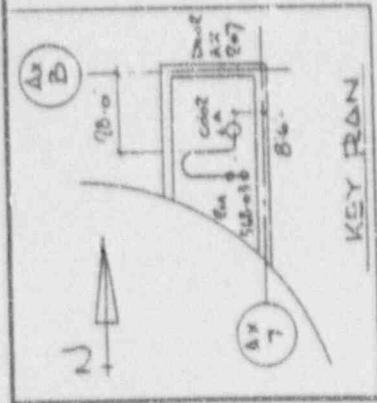
DETAIL 'A'

OP	REV	DATE	BY	APP
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REVISED TO CURRENT  
1ST PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

**NOTES:**

- 1 ALL PIPING ON THIS IS 15 CLASS 2
- 2 PDI 03-02
- 3 SUPPORTS AND WELDS TO BE LESS THAN .875" MIN. DO NOT REQUIRE INSPECTION. (CASE CASE J 404)



THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REV DWG  
 D-04-12

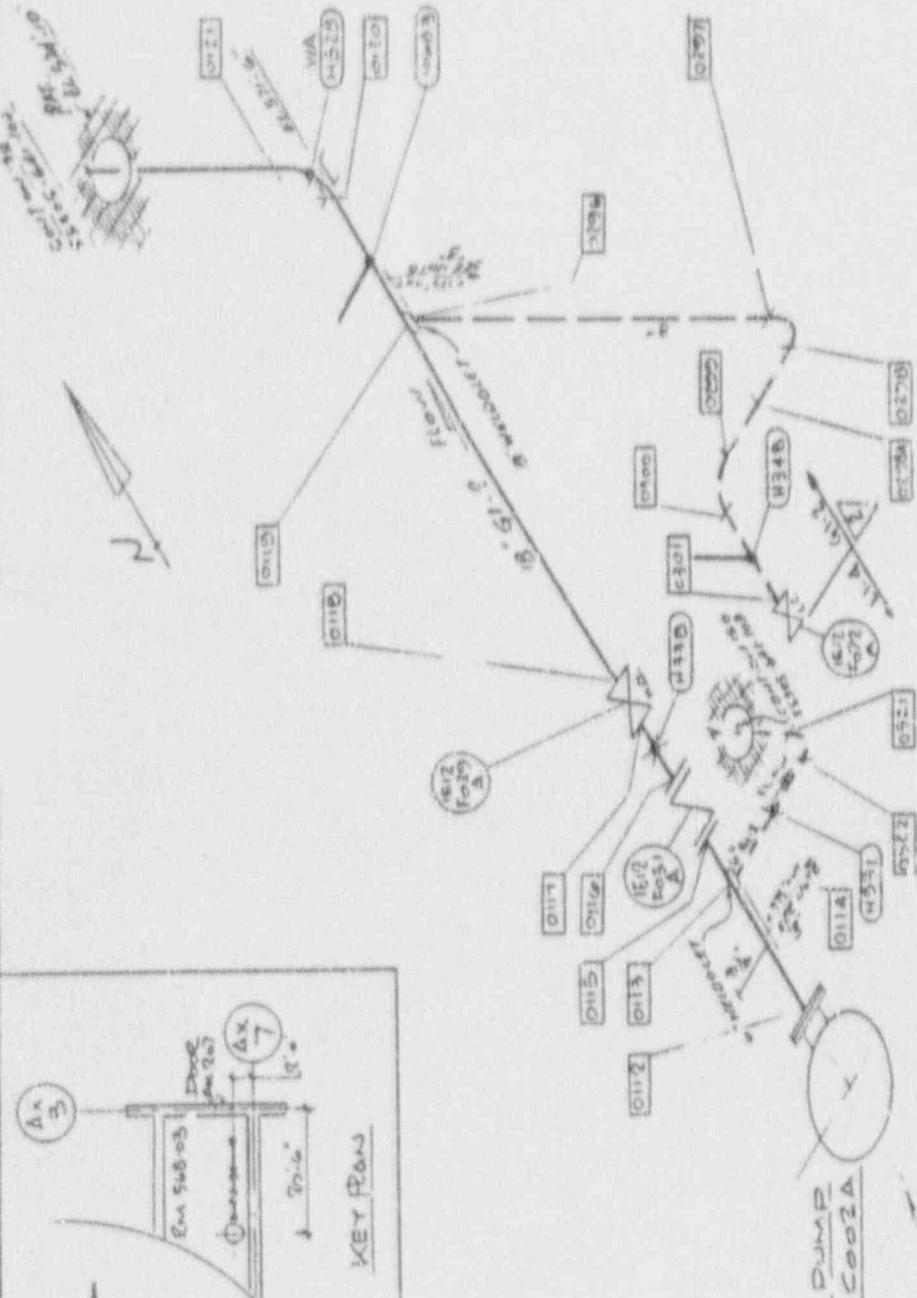
REVISIONS	
NO.	DESCRIPTION
1	ISSUE FOR CONSTRUCTION
2	ISSUE FOR CONSTRUCTION
3	ISSUE FOR CONSTRUCTION
4	ISSUE FOR CONSTRUCTION
5	ISSUE FOR CONSTRUCTION
6	ISSUE FOR CONSTRUCTION
7	ISSUE FOR CONSTRUCTION
8	ISSUE FOR CONSTRUCTION
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16	ISSUE FOR CONSTRUCTION
17	ISSUE FOR CONSTRUCTION
18	ISSUE FOR CONSTRUCTION
19	ISSUE FOR CONSTRUCTION
20	ISSUE FOR CONSTRUCTION

REV	DATE	BY	CHKD	APPROVED
D-04	12/12/12	M	P	
1				

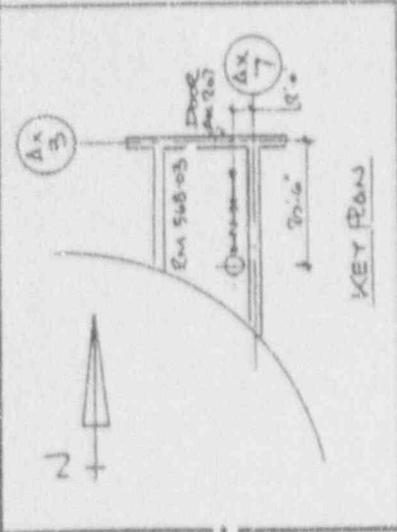
REVISED TO CURRENT  
 1ST PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

Note  
 1. ALL WORK ON THIS IS TO BE COMPLETED BY 15 AUG 55?  
 2. FBI 03-03  
 FBI 02-003  
 FBI 03-04  
 FBI 02-204  
 3. SUPPORTS AND WELDS ON DRAWING THAT IS LEFT THAN - THIS THE DO NOT REMOVE WORK SERVICE INSPECTION (GOOD CASE NO. 62)

THE DEVELOPMENT SECRETARY'S SUBMITTING COMPANY			
Project Number	Project Name	Project No.	Project Date
IS-1	IS-1	IS-1	IS-1
<b>RHR LOOP A</b>			
Author	Checker	Appr. Mgr.	Appr. Date
W. J. H. R.	C. K.	M. J. H.	11/19/55
Rev. No.	Rev. Date	Rev. By	Rev. Date
1	11/19/55	W. J. H. R.	11/19/55
Project No.	Project Name	Project Date	Project Location
102	102	102	102



NOTE: THIS DRAWING IS FOR USE BY THE USER ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION  
 KEY DWG.  
 D-2044-1-2

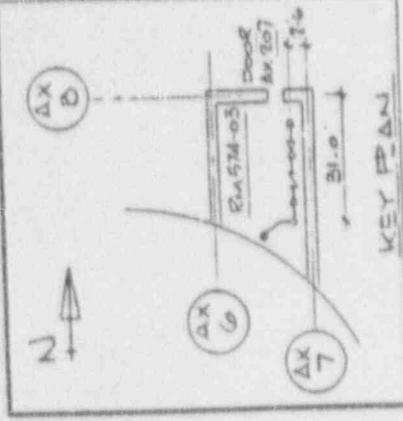
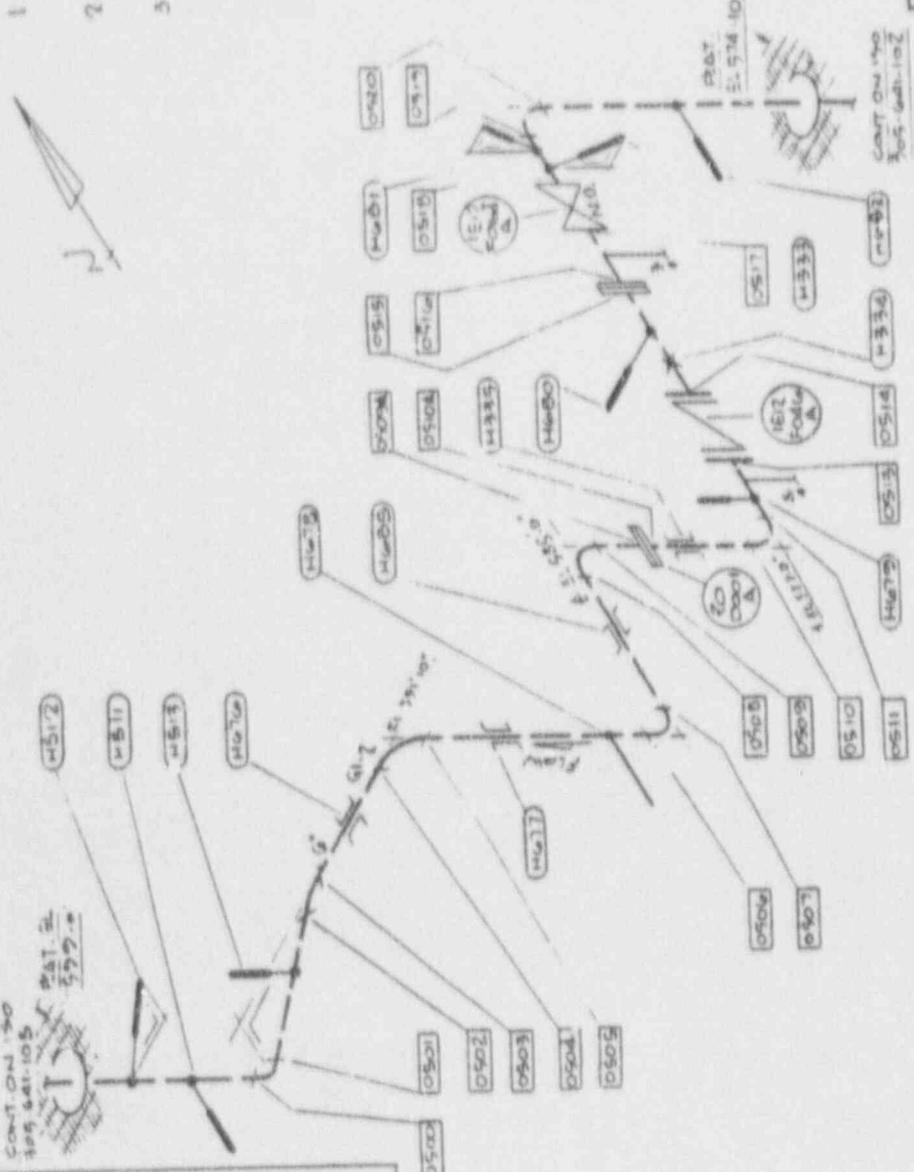


REVISION	DATE	BY	CHKD	APP'D
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CONF. ON 150  
 55 305-641-101

NOTE -

1. ALL PIPING ON THIS ISO IS CLASS 2
2. PSI 03-04  
151 512-004
3. ALL PIPING ON THIS ISO IS LESS THAN .875 INCH. SUPPORTS AND WELDS ON THIS PIPING DO NOT REQUIRE WELD SERVICE INSPECTION. (CODE CASE N408)

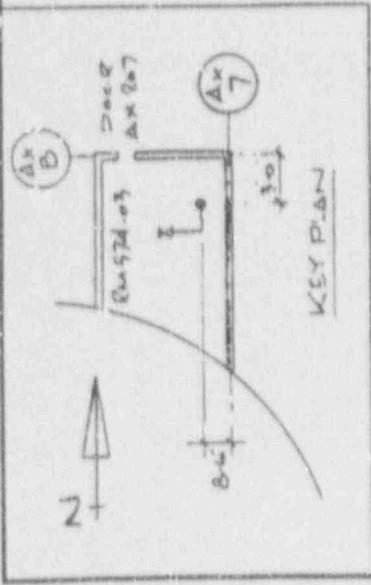


THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	UNIT
ISO PIPING ISO SYS E-2	
RNR LOOP 'A'	
AUXILIARY RIDG	EL. 574.0
DATE	ISSUED
BY	CHK
APP'D	APP'D
SCALE	AS SHOWN
PROJECT NO.	36305-6-11-103
REV.	1

REF QMS  
D-204692

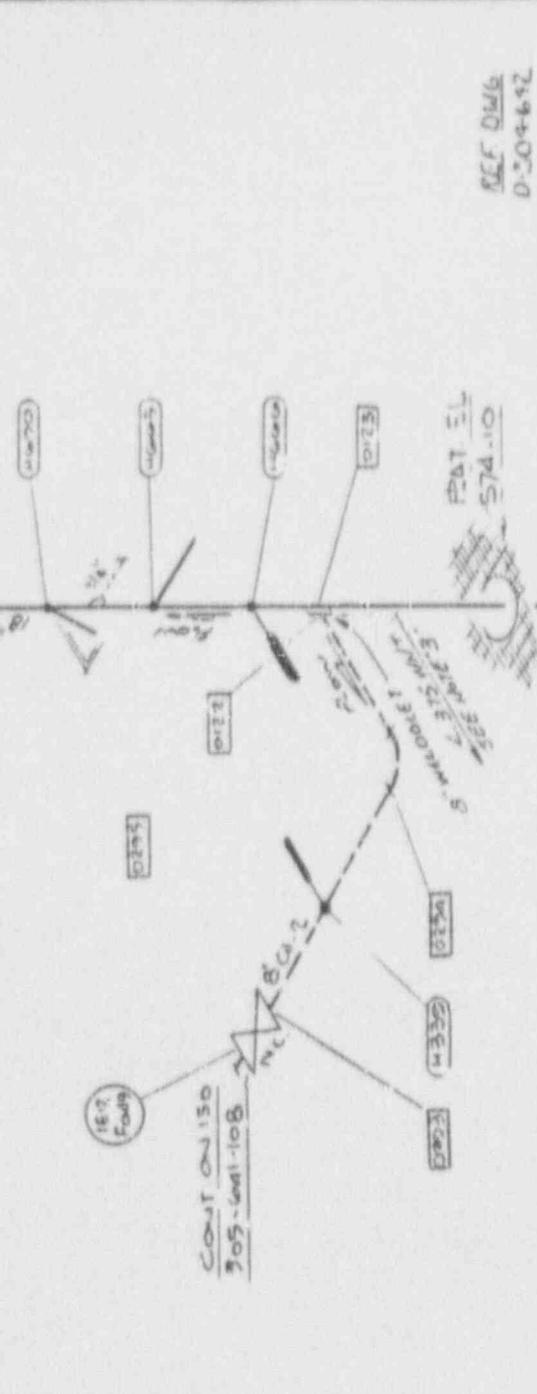
NOTE: THIS DRAWING IS FOR ISO PROGRAM USE ONLY AND SHALL NOT BE USED FOR REPLICATION/INSTALLATION.

REVISED TO CURRENT ISO PROGRAM STANDARDS/FORMAT	PER DCN 3611
DATE	BY
16	H
22	M
0	P



NOTE -

1. ALL PIPING ON THIS ISO IS CLASS 2
2. PSI 03-03  
151 E12-003
3. SUPPORTS & WELDS ON PIPING LESS THAN .375 THICK DO NOT REQUIRE WELDING INSPECTION. (CASE CASE J 608)

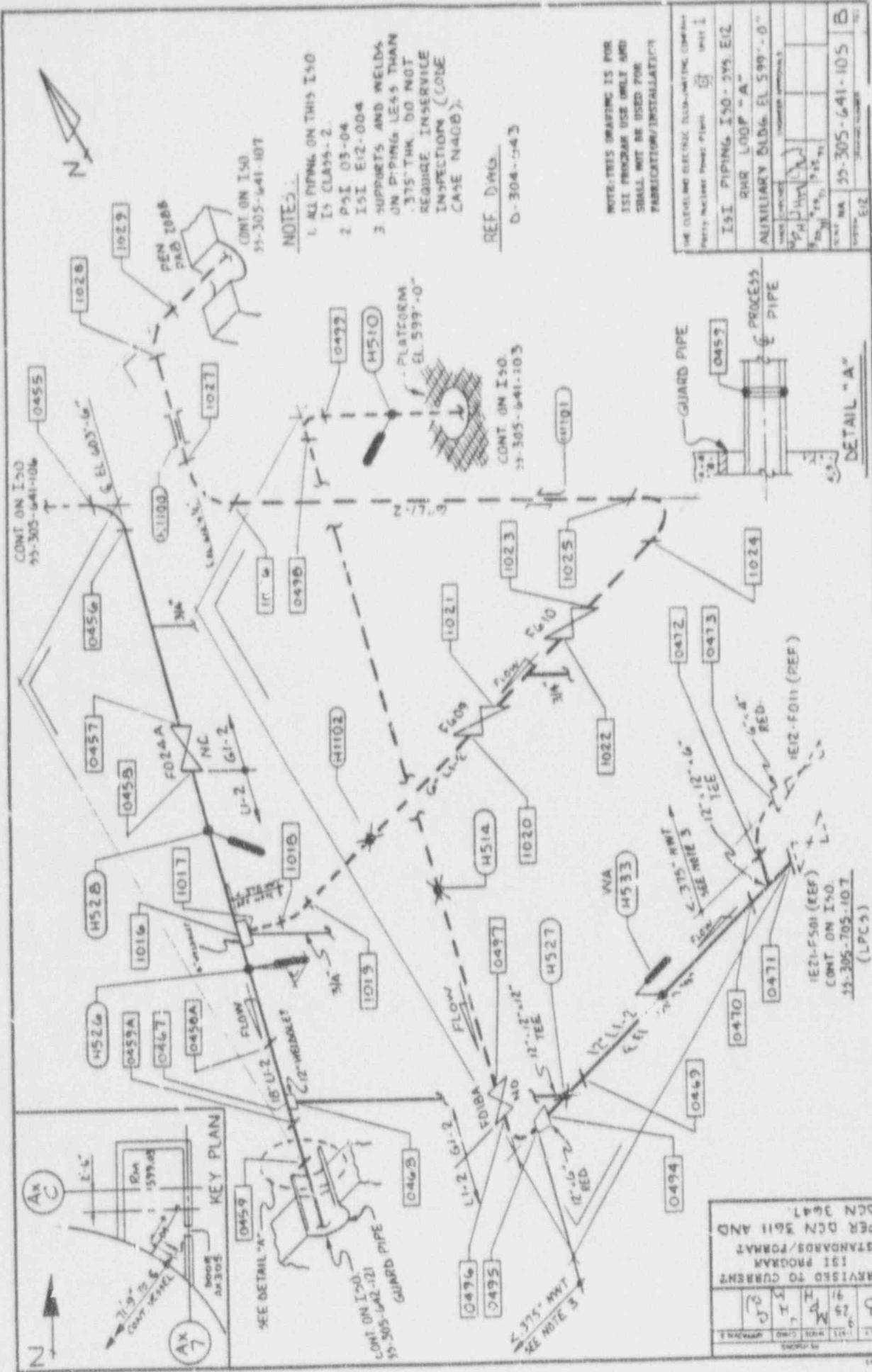


REVISED TO CURRENT	16	D
151 PROGRAM	22	M
STANDARDS/FORMAT	10	H
PER DCN 2611	03	M

THE CLEVELAND STEELING BILLYING COMPANY	
FIRST NATIONAL POWER PLANT	
ISO PIPING, ISO SYS E12	57
KAR LOP-A	
AUXILIARY Bldg. EL 574-10	
NO. 1000	1000
BY: J.P. [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81
BY: [signature]	DATE: 1/18/81

NOTE: THIS DRAWING IS FOR 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF DWG  
D-304642



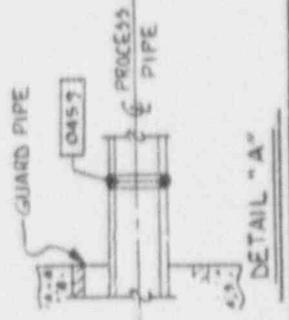
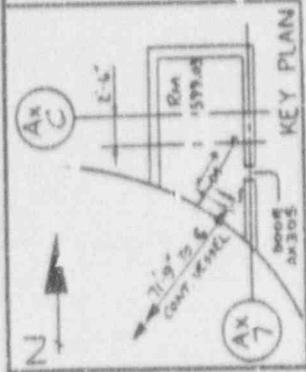
- NOTES:**
1. ALL PIPING ON THIS I.S.O. IS CLASS-2.
  2. PSI 03-04 ISL E/2-004
  3. SUPPORTS AND WELDS ON PIPING LESS THAN .375" THK. DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE N408).

REF. DWG. D-304-543

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

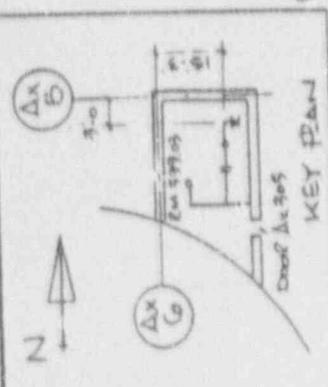
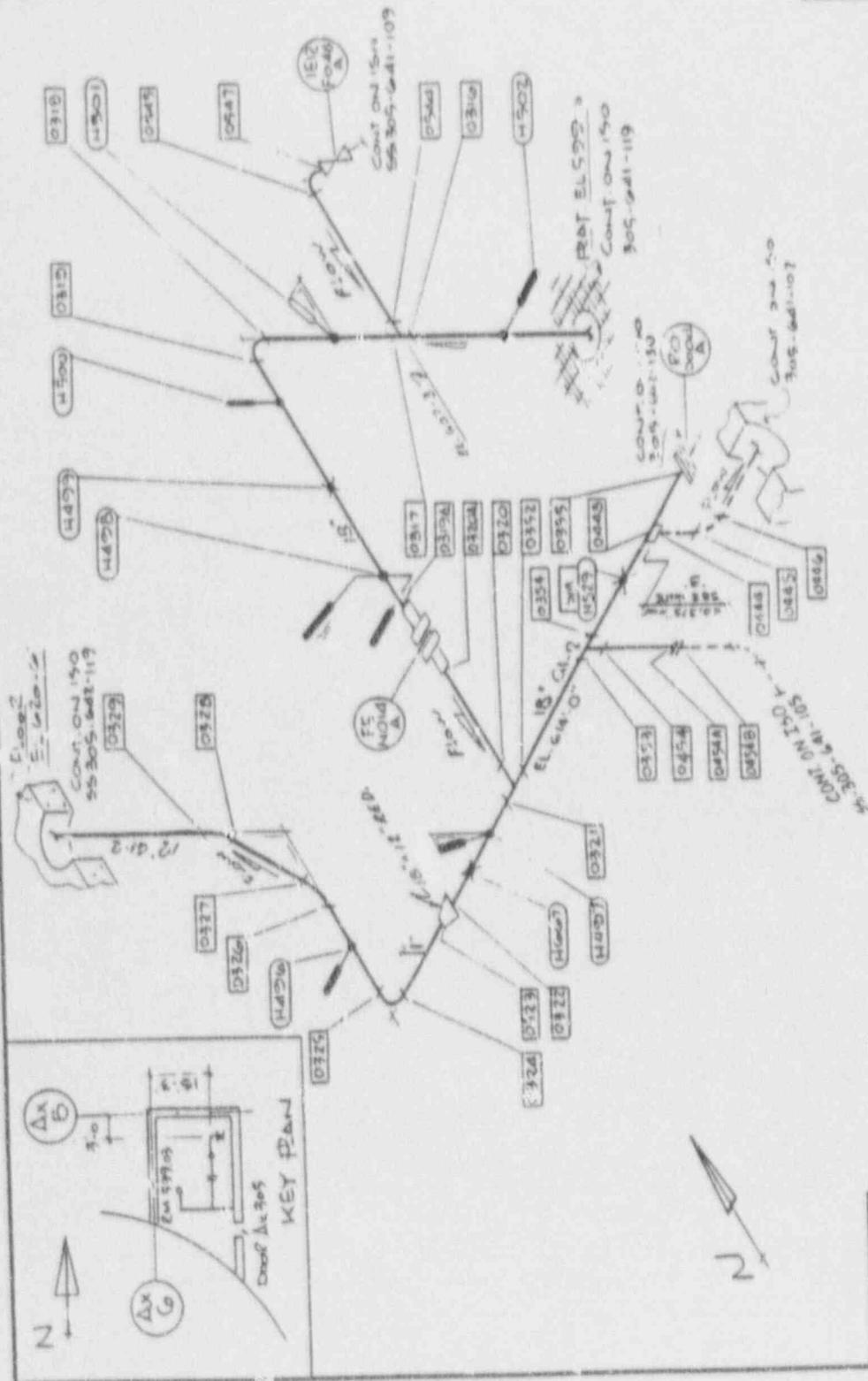
THE FOLLOWING ELECTRICAL SYMBOLS APPLY TO THIS DRAWING	
IS1 PIPING, I.S.O. - 295. E/2	Sheet 1
RHR LOOP "A"	
AUXILIARY BLDG EL. 599'-0"	
DATE: 10/11/83	BY: [Signature]
SCALE: AS SHOWN	
PROJECT: 55-305-641-105	Sheet 1
ISSUE: E/2	

APPROVED TO CURRENT STANDARDS/FORMAT	DATE
PER DCN 3647	
DCN 3647	



NOTES

1. ALL PIPING ON THIS IS 150 LB CLASS 2
2. PSI 03-05  
PSI 03-08  
PSI 03-08  
PSI 03-08
3. SUPPORTS / WELDS ON DUALS - 555 TAD. ITS TAD. DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE N-408)



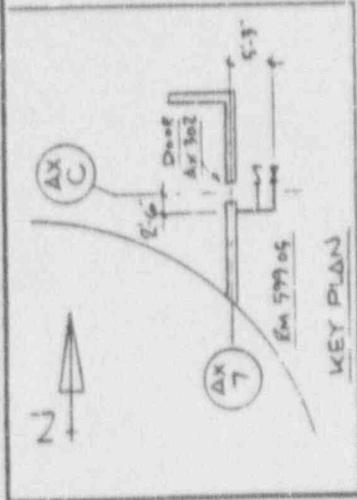
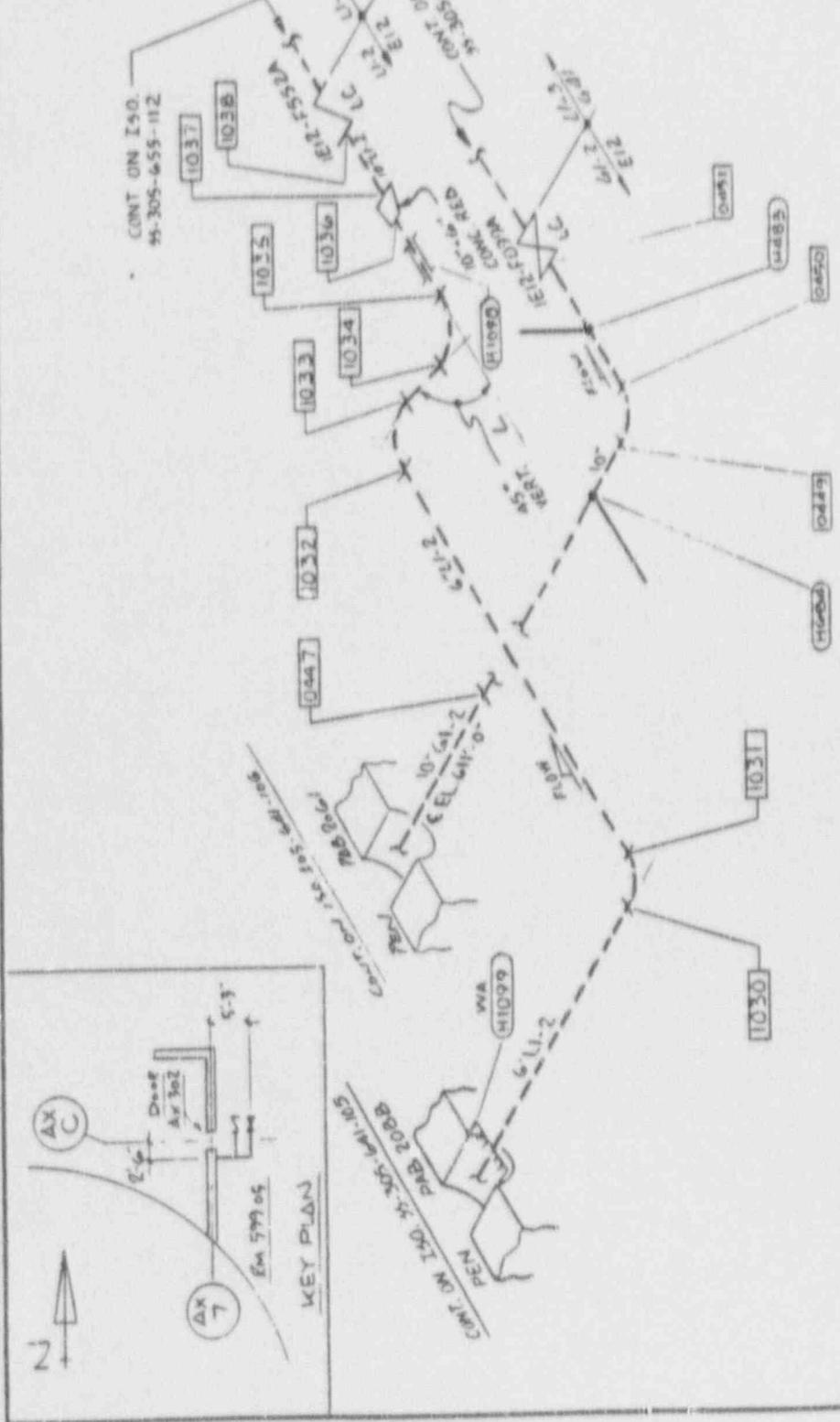
THE CLEVELAND ELECTRIC ILLUMINATING CO. COMPANY	
Project Name: Power Plant	Sheet No: 101
Scale: 1/4" = 1'-0"	Drawn: M/A
Checked: M/A	Date: 11-18
Approved: M/A	Date: 11-18
Project No: 66-305-41-106	Sheet No: 101

REF. DWG.  
2-504-643

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3842	DATE	BY
	11/18	M/A
	11/18	M/A
	11/18	M/A

NOTE  
 1 ALL PIPING THIS ISO  
 IS CLASS 2  
 2 PSE 08-05  
 151 512-005  
 3 ALL PIPING ON THIS  
 ISO IS LESS THAN  
 0.375" NW/1, SUPPORT &  
 WELDS ON THIS PIPING  
 DO NOT REQUIRE VISU  
 INSPECTION (SOME CASE N600)



THE FULBRIGHT ELECTRIC ENGINEERING COMPANY	
Project Number: 99305-641-107	
NO. OF SHEETS	150
SHEET NO.	150
PROJECT TITLE: RRR LOOP H	
PROJECT NO.: 99305-641-107	
PROJECT LOCATION: ALUMINUM BLDG. E1599.4	
DATE	12/15/05
BY	JUL
CHECKED	M/A
APPROVED	M/A
SCALE	AS SHOWN
DATE	9/30/05
BY	641-107
CHECKED	
APPROVED	

REV. DWG.  
 2-309-643

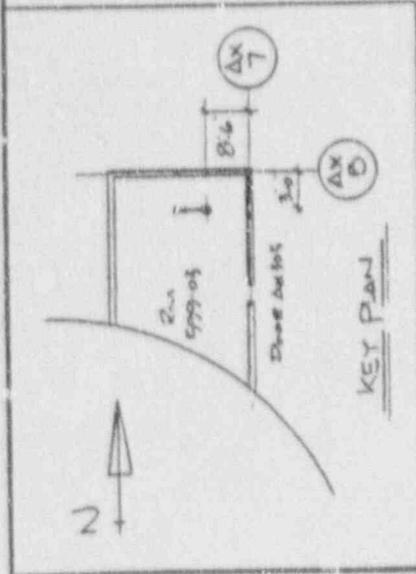
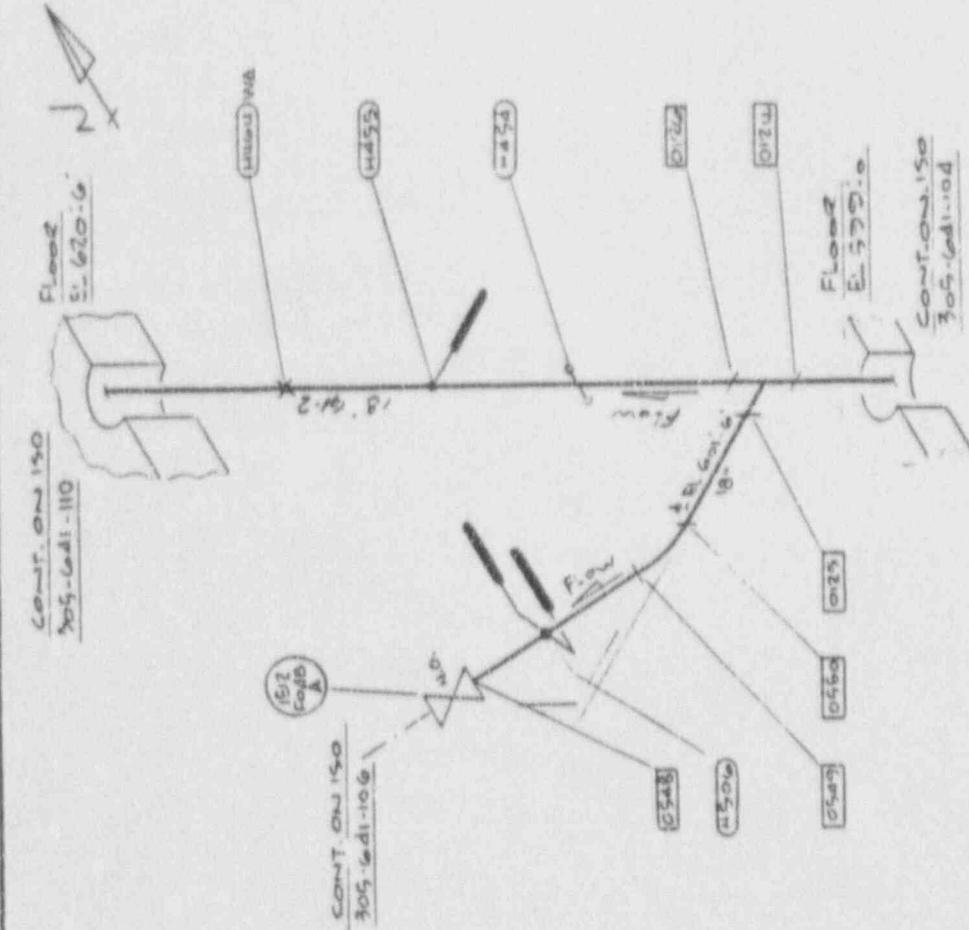
NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NO.	150
DATE	12/15/05
BY	JUL
CHECKED	M/A
APPROVED	M/A
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3542 AND DCN 3647	



NOTE

1. ALL PIPING ON THIS 150 IS CLASS 2
2. PSI 03-03  
151 512-003



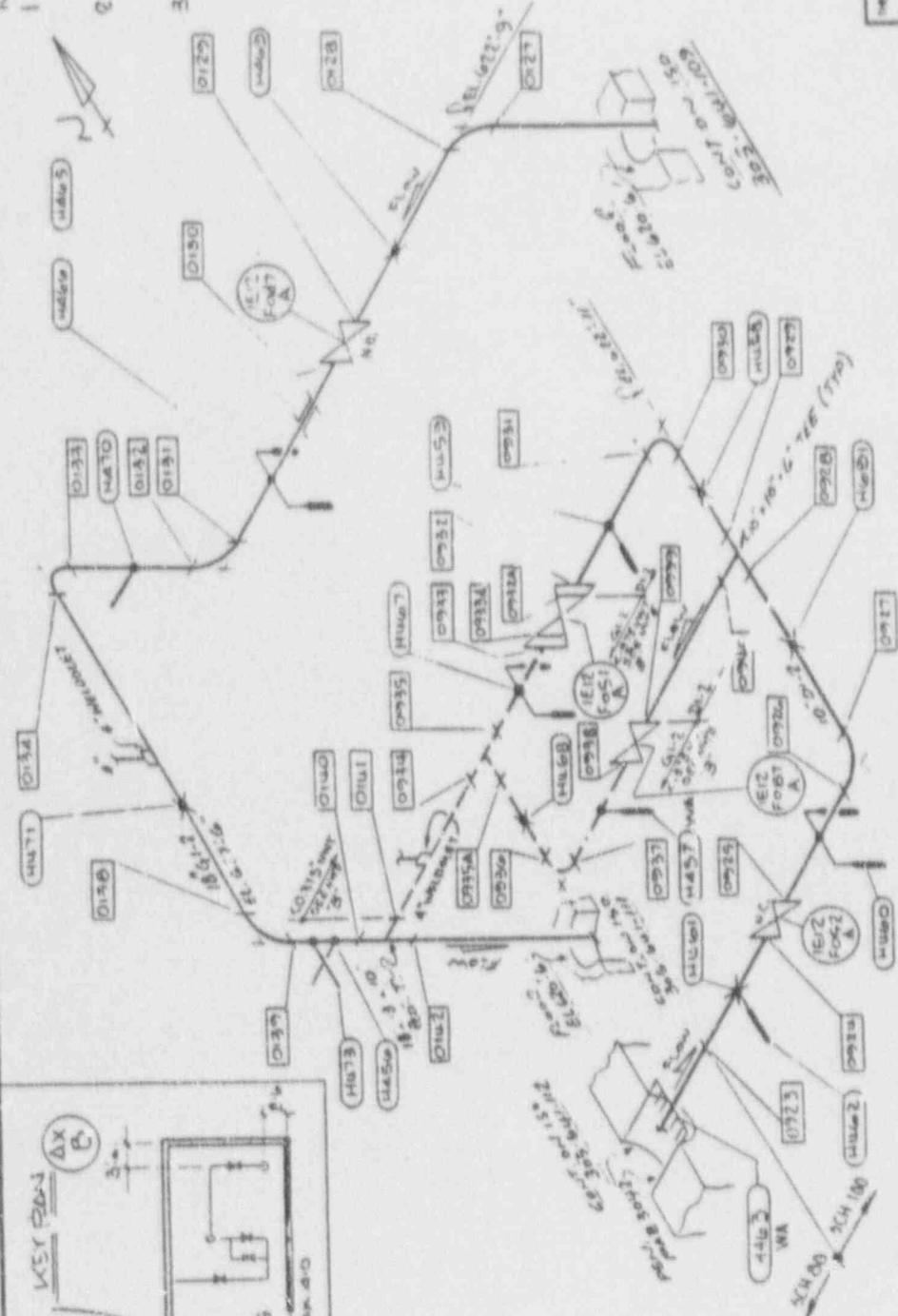
THE ELECTRIC ENGINEERING COMPANY	
PROJECT NUMBER	PROJECT TITLE
151 PIPING 150 SYS E12	151
AUXILIARY BLDG EL 577.0	
DATE	PROJECT APPROVALS
10/24/03	DESIGNED BY: J.R. M/A
	CHECKED BY: J.R. M/A
	DATE: 11/14/03
	SCALE: 1/4" = 1'-0"
PROJECT NO.	PROJECT NAME
151-577-109	151-577-109
DATE	SCALE
10/24/03	1/4"

SEE DWG  
D-304-643

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISION	DATE	BY	APP
1	10/22/03	J.R.	M/A
2	11/14/03	J.R.	M/A
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3411			

- NOTE -
1. ALL PIPING ON THIS IS CLASS 2
  2. PSI 03-03  
ISI 812-003
  3. SUPPORTS & WELDS ON PIPING LESS THAN 375 TUB. DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE N408)



REF. DWG.  
2-204-644

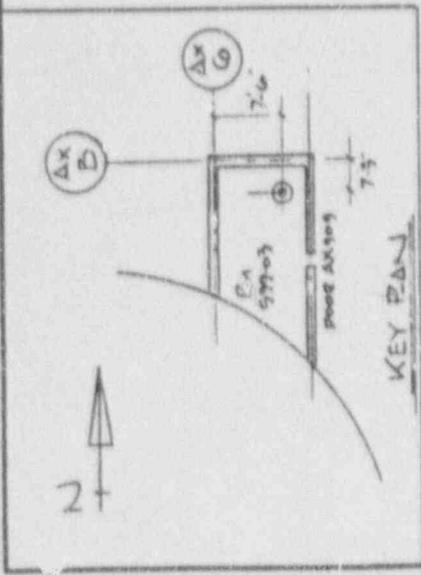
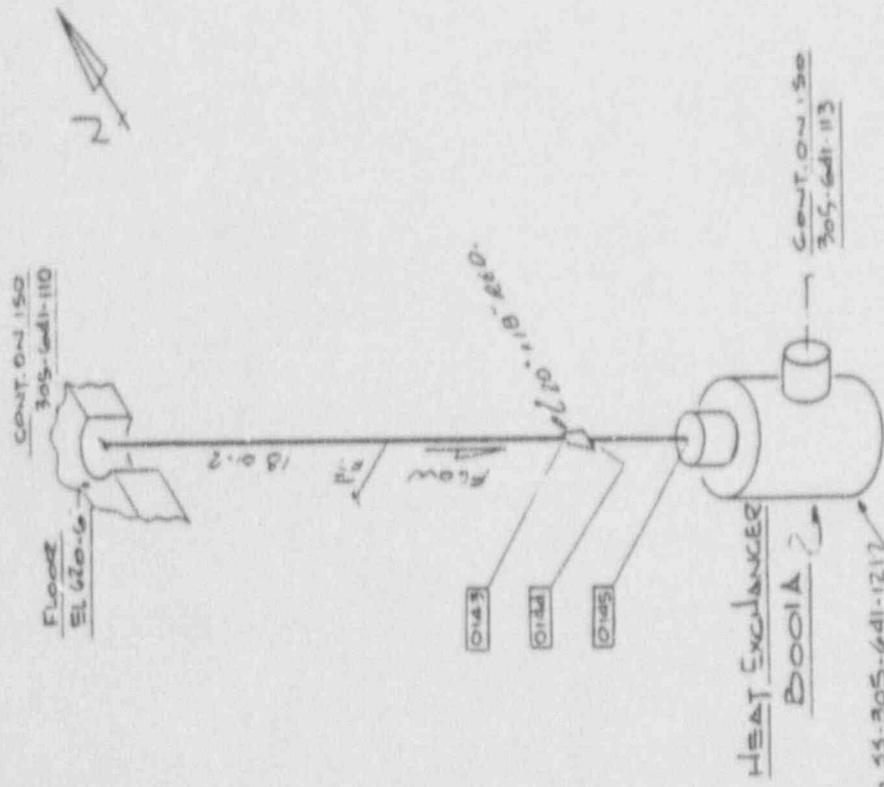
NOTES: THIS DRAWING IS FOR  
ISI PROGRAM 072 ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	3002 AX-0-0
DATE	11-1-64
ISI PIPING, ISO 6YS E12	
RRR LOOP A COMMON	
DESIGNER	WJ
CHECKER	WJ
APPROVER	WJ
DATE	11-1-64
PROJECT NUMBER	3002 AX-0-0
DATE	11-1-64
PROJECT NUMBER	3002 AX-0-0
DATE	11-1-64

NO.	DATE	BY	CHKD	APPROVED
1	11/1/64	WJ	WJ	WJ
2	11/1/64	WJ	WJ	WJ
3	11/1/64	WJ	WJ	WJ
4	11/1/64	WJ	WJ	WJ
5	11/1/64	WJ	WJ	WJ
6	11/1/64	WJ	WJ	WJ
7	11/1/64	WJ	WJ	WJ
8	11/1/64	WJ	WJ	WJ
9	11/1/64	WJ	WJ	WJ
10	11/1/64	WJ	WJ	WJ

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

NOTE:  
 1 ALL PIPING UNITS IS  
 150 LB CLASS ?  
 ? PSI 03-03  
 151 512-003



THE DEVELOPER - CIVIL ENGINEERING COMPANY	
Project Name: Pood An109	Sheet: 01
151 PIPING 150 515 B12	
RHR LOOP "N"	
DATE: 03-03-03	DESIGNED BY: BUD-EL599-0
DESIGNED BY: BUD-EL599-0	CHECKED BY: N/A
DATE: 03-03-03	DATE: 03-03-03
SCALE: 1/8" = 1'-0"	SCALE: 1/8" = 1'-0"
PROJECT NO: 55-305-641-111	PROJECT NO: 55-305-641-111
SHEET NO: 01	TOTAL SHEETS: 01

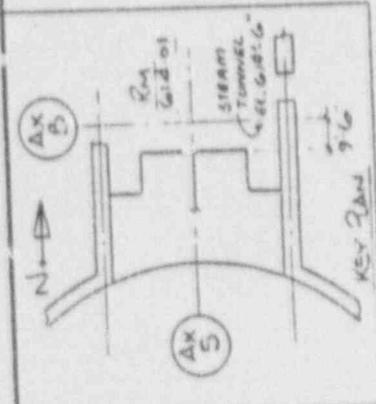
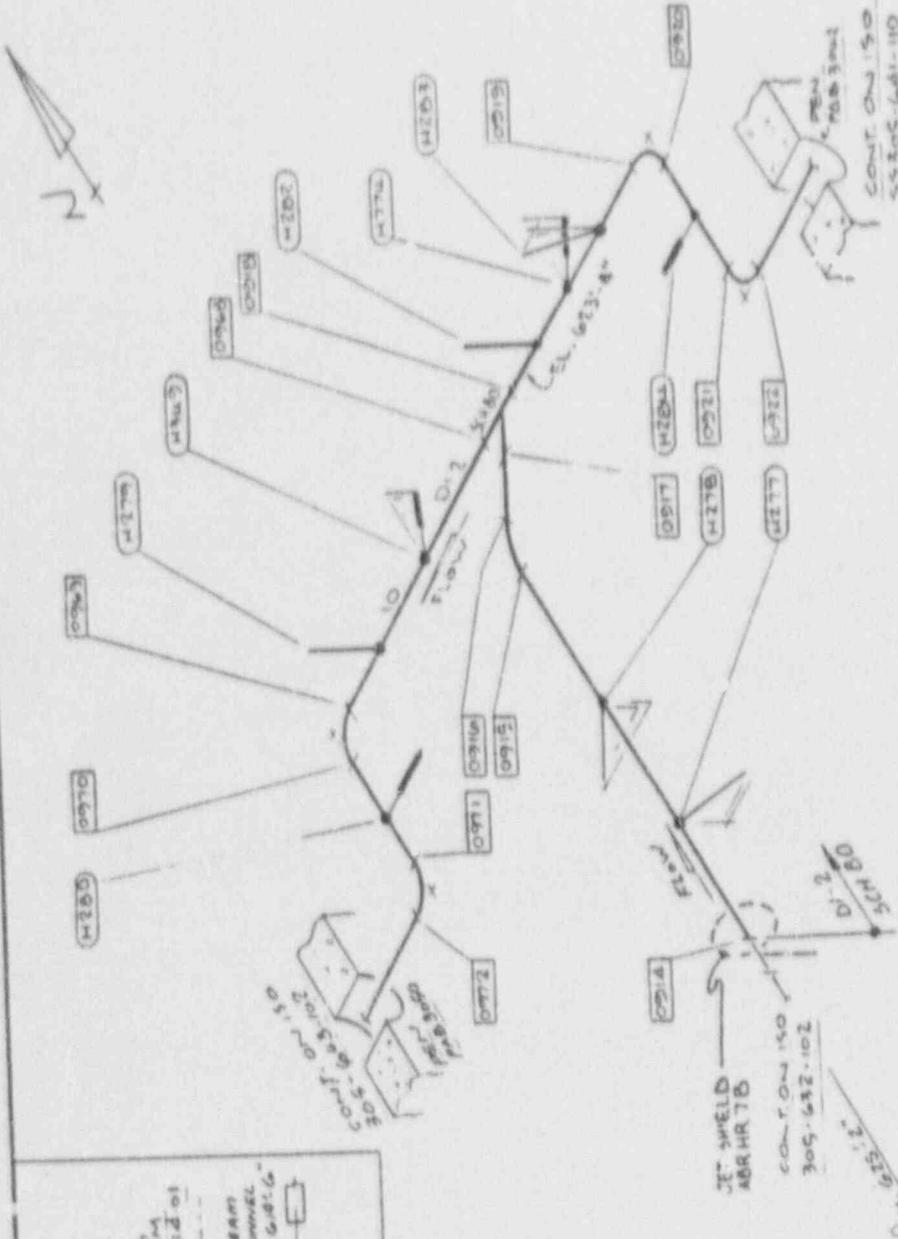
SEE DWG. 55-305-641-1212  
 D-204-493  
 D-204-604

NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATING/INSTALLATION

SEE DWG. 55-305-641-1212

DATE: 03-03-03	BY: BUD-EL599-0	SCALE: 1/8" = 1'-0"	PROJECT NO: 55-305-641-111
DATE: 03-03-03	BY: N/A	SCALE: 1/8" = 1'-0"	PROJECT NO: 55-305-641-111
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3611			

NOTE:  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2  
 2 PSI 03-10  
 ISI 612-010  
 PSI 03-03  
 ISI 611-003



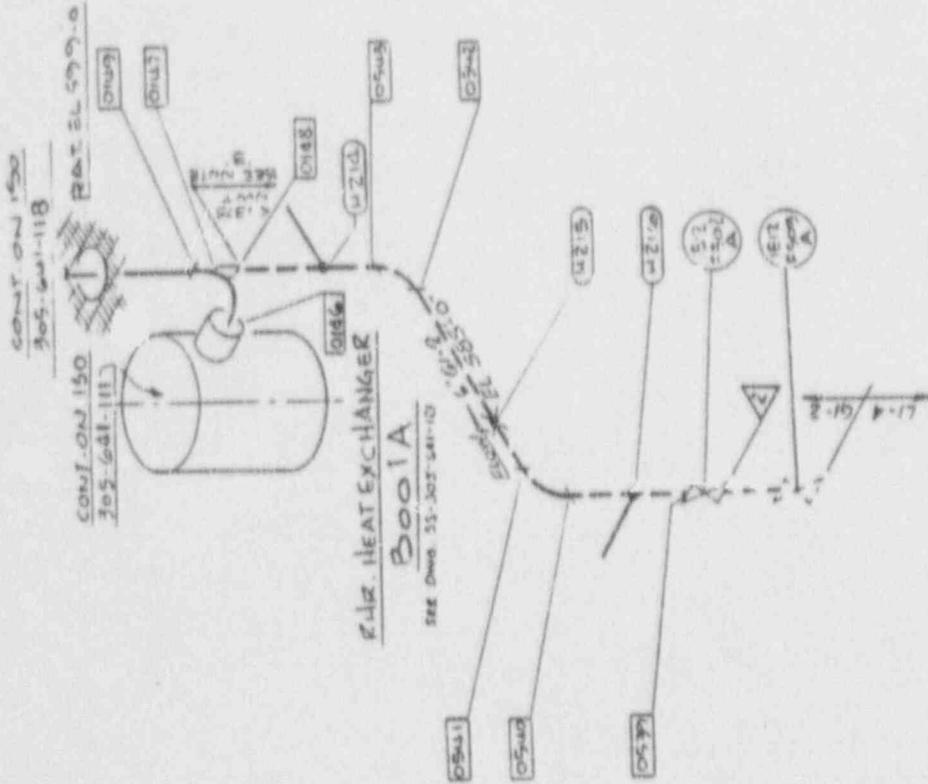
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PLANT NO. 150-576-612	DATE
ISI PIPING 150-576-612	
PHR LOOP COMMON	
APPROVED BY	DATE
DATE	PROJECT NUMBER
NO. 1	2
NO. 2	3
NO. 3	4
NO. 4	5
NO. 5	6
NO. 6	7
NO. 7	8
NO. 8	9
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NO. 41	42
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NO. 44	45
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NO. 66	67
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NO. 74	75
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NO. 78	79
NO. 79	80
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NO. 91	92
NO. 92	93
NO. 93	94
NO. 94	95
NO. 95	96
NO. 96	97
NO. 97	98
NO. 98	99
NO. 99	100

SEE QMB  
 D-204-644

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

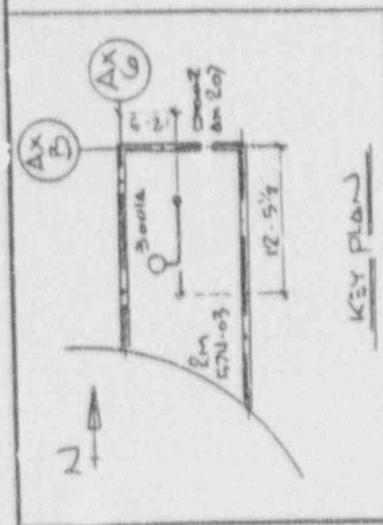
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611				
6	5	4	3	2
16	15	14	13	12
11	10	9	8	7
6	5	4	3	2
1	2	3	4	5

- NOTES:-
- 1 ALL PIPING ON THIS 150 IS CLASS 2
  - 2 PSI 03-08  
151 ER-010
  - 3 SUPPORTS & WELDS ON PIPING LESS THAN .375" THK DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE 1408)



REF. DWG.  
D-30A-692

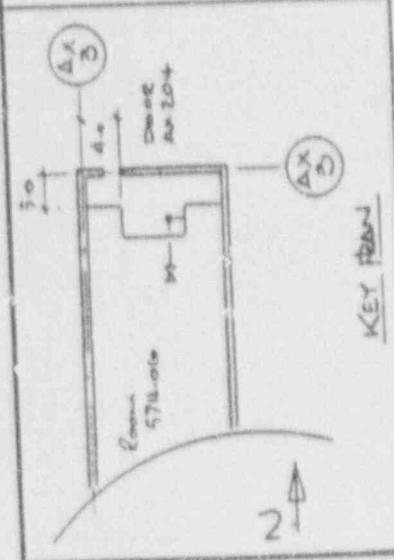
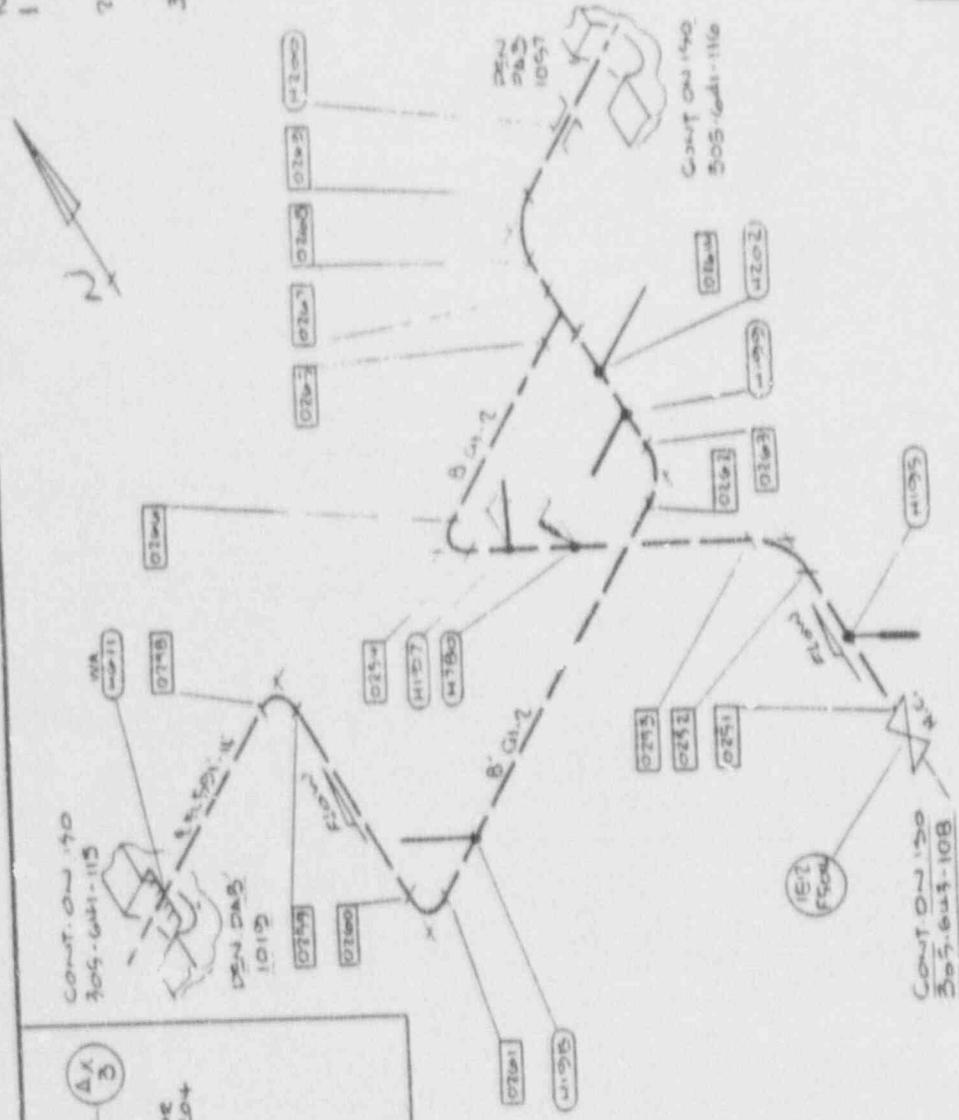
NOTE: THIS DRAWING IS FOR  
EST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	305-641-118
DATE	5/11/52
PROJECT	151 PIPING 150 305 641
DESCRIPTION	HEAT LOOP "A"
DESIGNED BY	ELMER B. BROWN
CHECKED BY	W. C. MIA
APPROVED BY	W. C. MIA
DATE	5/11/52
SCALE	AS SHOWN
PROJECT NUMBER	305-641-118

NO.	DATE	BY	REVISION
1	5/11/52	W.C. MIA	ISSUED FOR EST PROGRAM
2	5/11/52	W.C. MIA	REVISED TO CURRENT EST PROGRAM STANDARDS/FORMAT PER DCN 3542

- NOTE.
- 1 ALL PIPING ON THIS ISOS CLASS 2
  - 2 PSI 03-03A
  - 15-1 EIT-003A
  - 3 ALL PIPING ON THIS ISOS IS LESS THAN 0.315" NWT. SUPPORT AND WELDS ON THIS PIPING DO NOT REQUIRE INSERVICE INSPECTION (SEE CASE 1403)



KEY PLAN

THE FOLLOWING ELECTRICAL DRAWING, COMPANY  
PROJECT NUMBER AND DATE: 505-641-116 11/11/81

ISI PIPING 505-641-116

RUE LONDON

NO.	DATE	BY	CHK	APP
1				
2	11/11/81	RUE	JK	M/A
3				

505-641-116

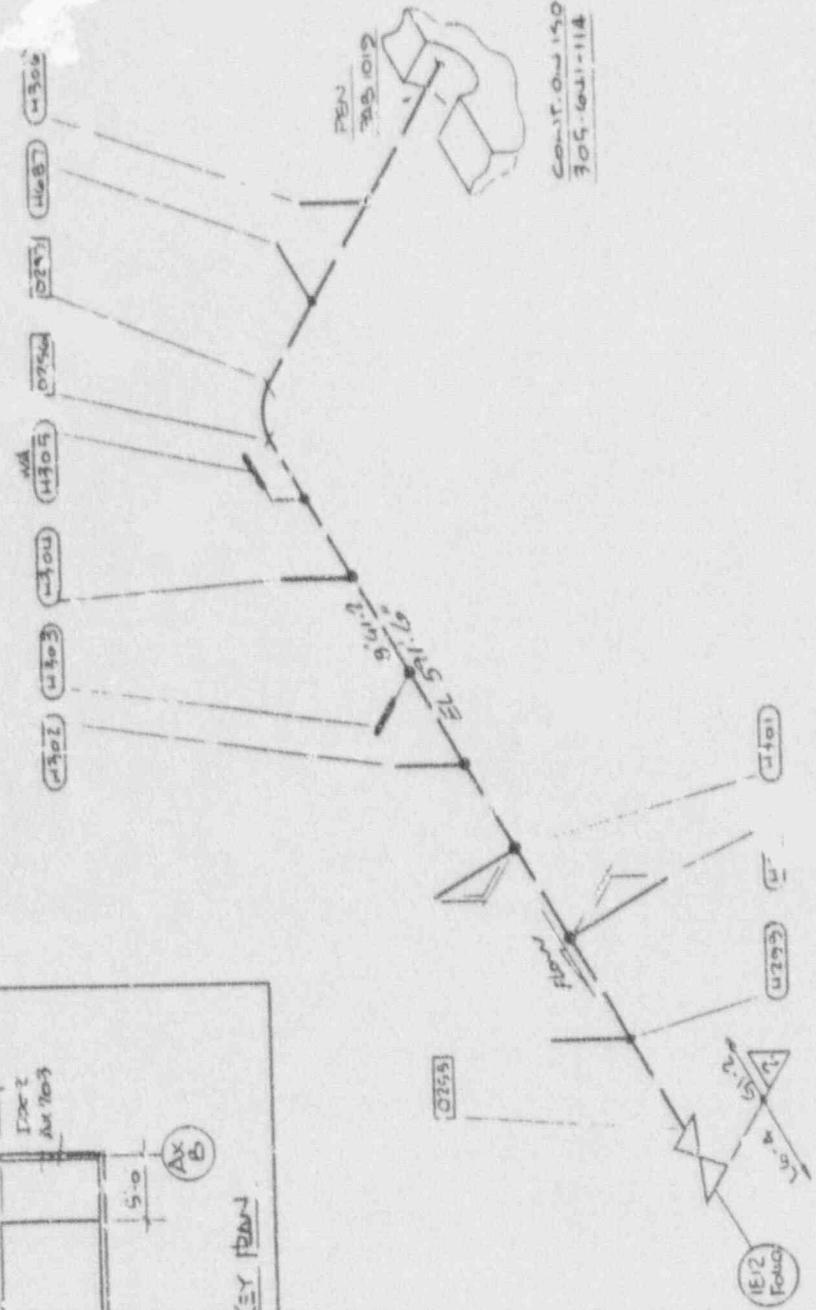
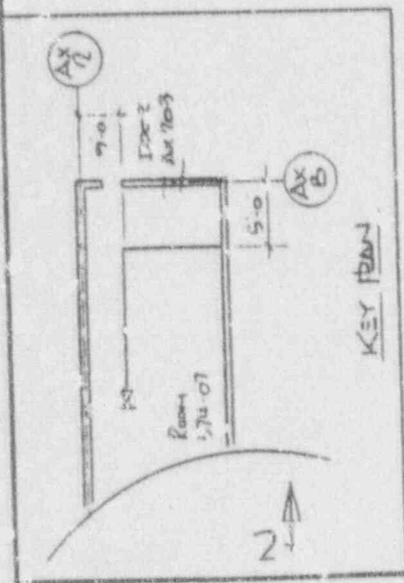
EIT

REF DWG  
D-504-641

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

REV	DATE	BY	CHK	APP
1				
2	11/11/81	RUE	JK	M/A



LESS THAN 1/2" IT  
SUPPORTS AND WELDS  
ON THIS PIPING DO NOT  
REQUIRE WELDING  
SECTION.  
(CODE CASE J 402)

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Unit: 1
ISE PIPING ISO 305 E12	
RHR COMMON	
Job No: 305-601-114	Sheet No: 114
Rev: 1	Date: 11/15/50
Drawn: J. H. ...	Checked: ...
Approved: ...	Scale: ...

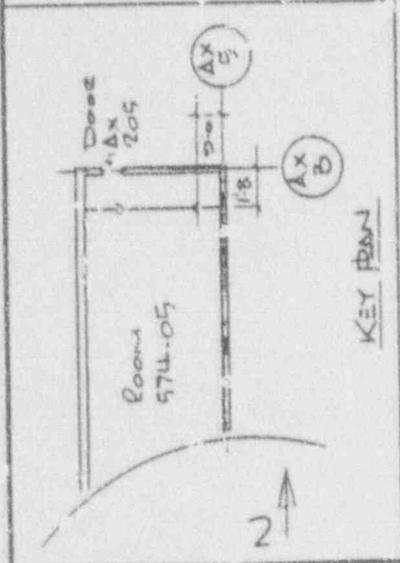
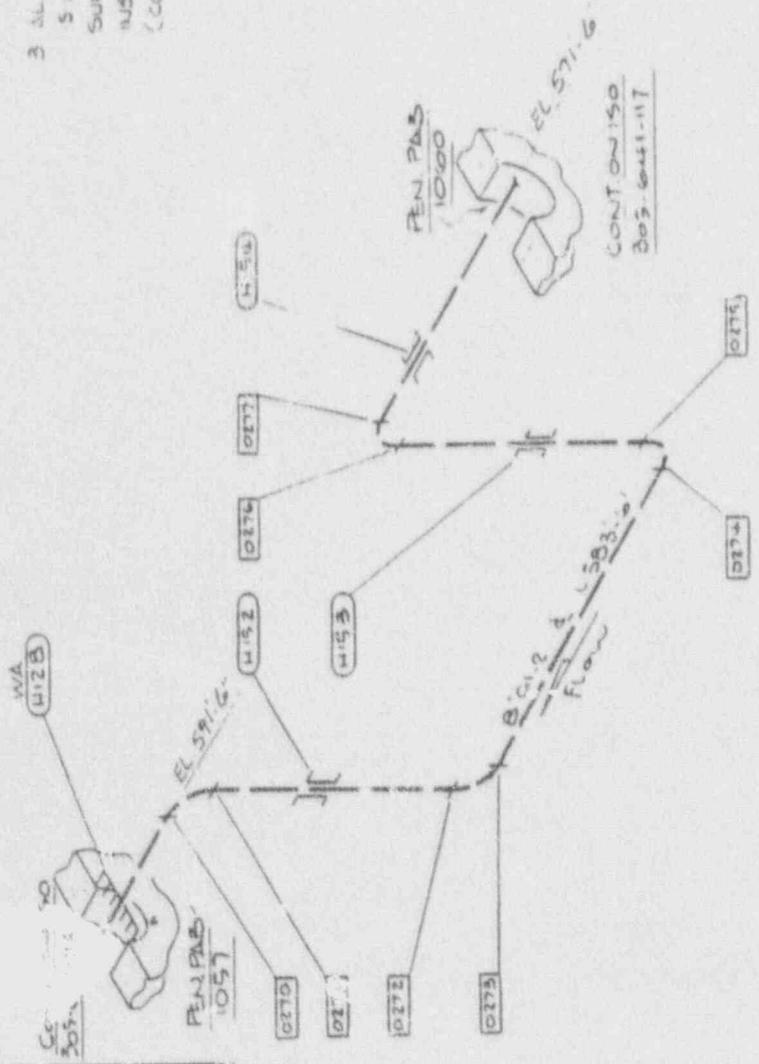
REF DWG.  
D-304-641

NOTE: THIS DRAWING IS FOR  
ISE PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REV	DATE	BY	REASON
D	11/15/50	J.H.	REVISED TO JRBENT
B	11/15/50	J.H.	STANDARD S/FCMAT
M	11/15/50	J.H.	PER DCN 3542
H	11/15/50	J.H.	
J	11/15/50	J.H.	
C	11/15/50	J.H.	
W	11/15/50	J.H.	

NOTE -

- 1 ALL PIPING ON THIS 150 IS CLASS 2
- 2 P&ID 03-03A  
151 512-303A
- 3 ALL PIPING IN THIS 150 SHALL BE IN 150S UNLESS OTHERWISE NOTED. SUPPORTS SHALL BE AS PER SERVICE CONNECTION (CODE CASE N408)



THE CLEVELAND ELECTRIC ILLUMINATING CO. UNIT 1	
PENNY MARKET POWER PLANT	
ISI PIPING 150 512 303A	
RESIDUAL HEAT REMOVAL	
LOOP "COMMON" AUX BUILG EL 57 + 0	
DATE	151 512 303A
BY	W. J. R. N/A
CHECKED	W. J. R. N/A
APPROVED	W. J. R. N/A
SCALE	AS SHOWN
PROJECT NO.	55305-6441-116
REV.	0

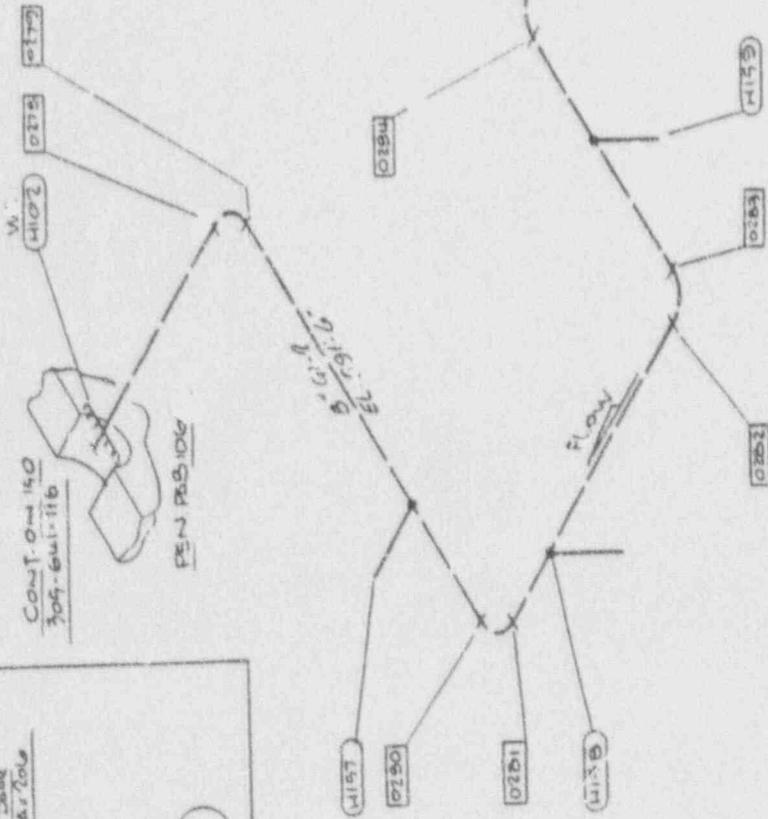
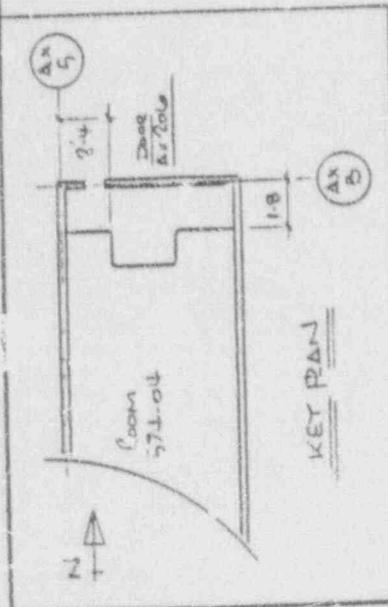
SEE DWG. D-304 1091

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REV.	DATE	BY	CHKD
B 22	11/11/81	W. J. R.	W. J. R.
M 5			
H 4			
P 4			
M 5			

APPROVED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611

- NOTE -
- 1 ALL PIPING ON THIS ISO IS CLASS 2
  - 2 PSI. 03-03A  
1.5:1 ERT-003A
  - 3 ALL PIPING ON THIS ISO IS LESS THAN 0.375" NWT. SUPPORTS AND WELDS ON THIS PIPING DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE U400)



CONT. 02150  
305-W 11-105

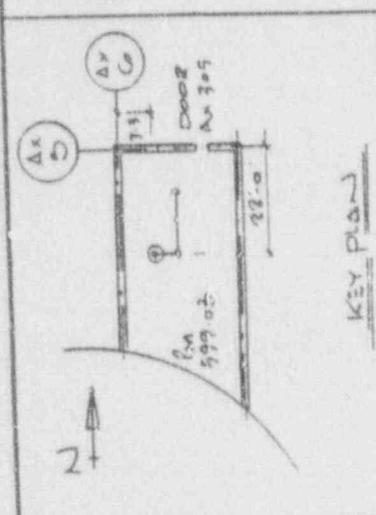
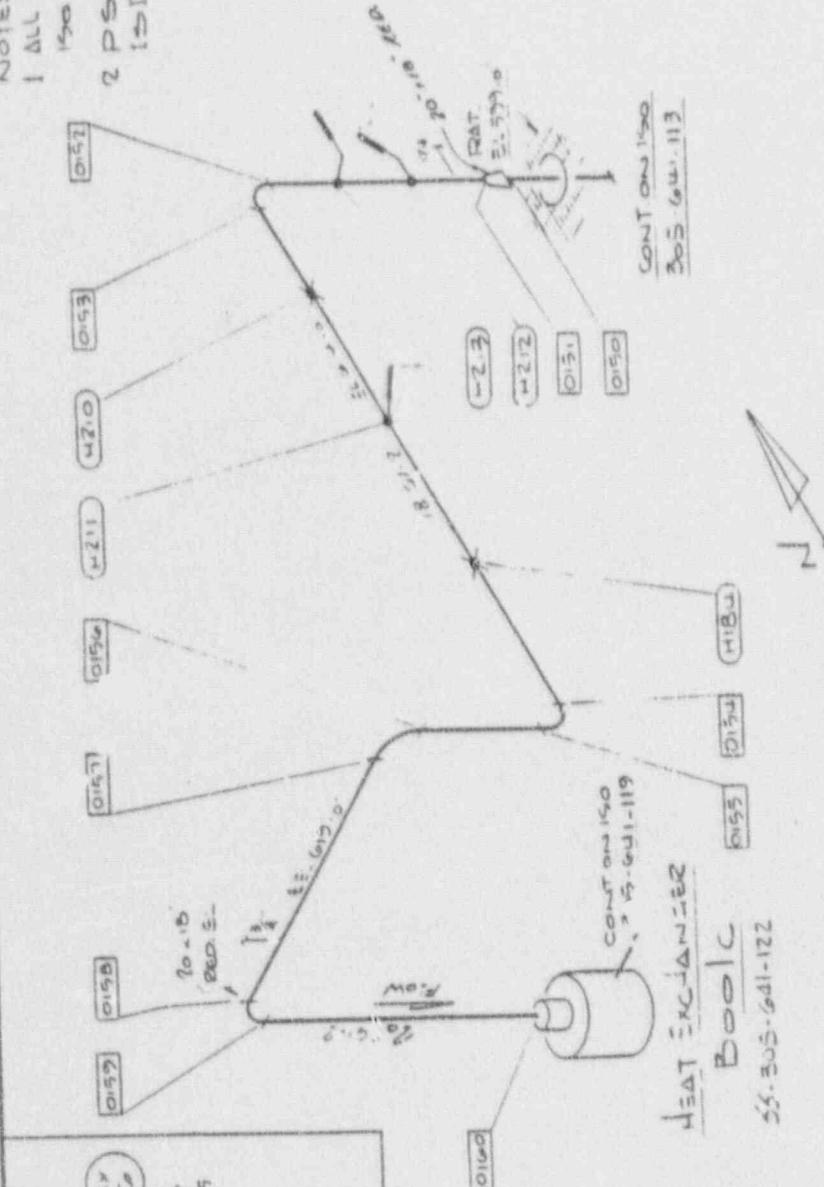
REF DWG.  
D 314-642

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE OREGON ELECTRIC ILLUMINATING COMPANY		PROJECT NUMBER		DRAWING NO.		SHEET NO.	
PENNY NUCLEAR POWER PLANT		305-W 11-105		02150		1	
[5] PIPING ISO 5MS ERT				RHR LOOP - COMMON			
AUXILIARY BLDG. EL510-00				1 - OREGON APPROVALS			
DATE	BY	CHK	APP	DATE	BY	CHK	APP
SCALE		DATE		PROJECT NO.		SHEET NO.	
AS SHOWN		4-23-64		305-W 11-105		1	

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611	D	9/23	M	H	11/1	C
ENGINEER	DATE	BY	CHK	APP	DATE	BY

NOTES:-  
 1 ALL PIPING ON THIS  
 ISO IS CLASS 2  
 2 PS: 03-03  
 ISI E12-008



CONT ON ISO  
 305-641-113

HEAT EXCHANGER  
 BOILER  
 55-641-122

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project	Peery Nuclear Power Plant
Sheet	ISI PIPING ISO 575 E12
Loop	RHR LOOP - A
Block	AUXILIARY BLDG EL599.0
Drawn	WJ
Checked	WJ
Approved	WJ
Date	5/10/61
Scale	AS SHOWN
Sheet No.	55-641-118
Block No.	

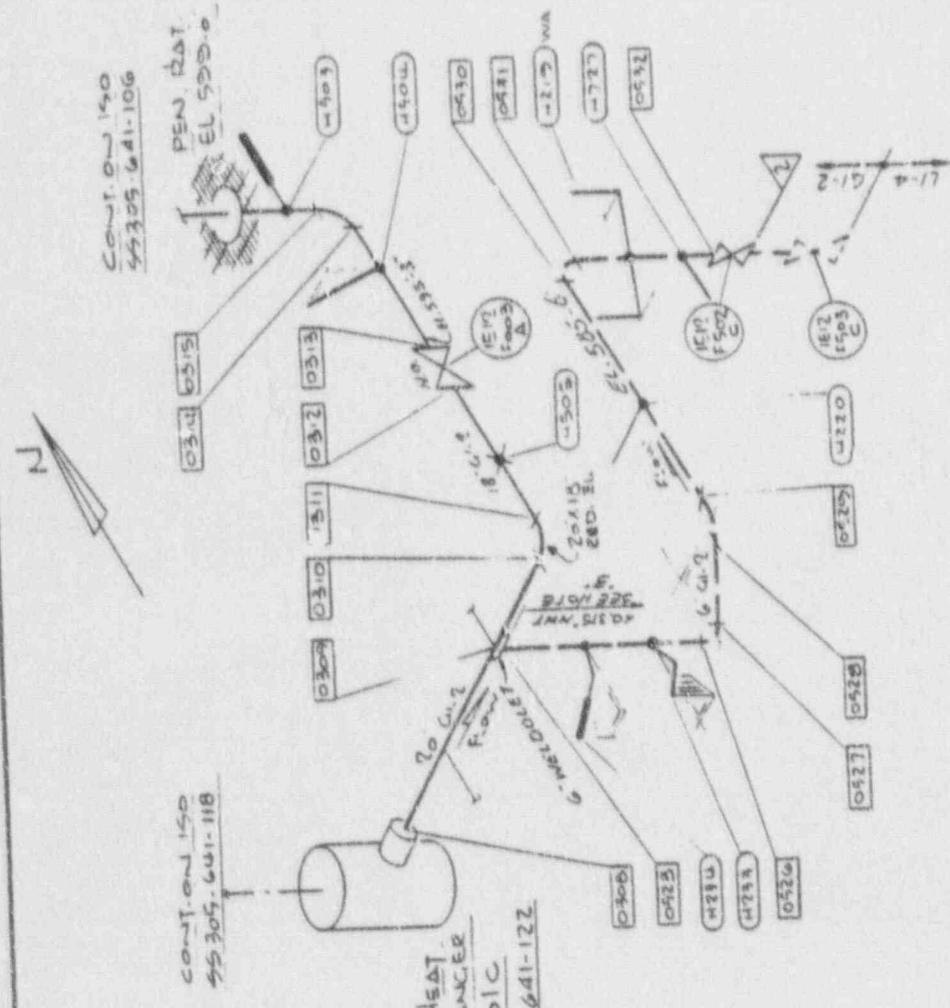
SEE DWG.  
 D-309-693

NOTE: THIS DRAWING IS FOR  
 IS. PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

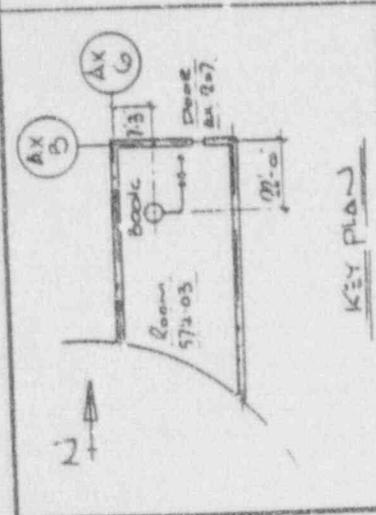
REV	DATE	BY	CHKD	APPV	REVISION
B	22	H	H		REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611

NOTES:-  
 1 ALL PIPING ON THIS 150 IS CLASS 2  
 2 PSI: 03-08  
 151 E12-008  
 3. SUPPORT AND WELDS ON PIPING THAT IS LESS THAN .375" THK. DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE NAC) )

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PARTY NUMBER POWER PLANT 57	
151 PIPING 150 SYS E12	
RHR LOOP A	
AUXILIARY BLDG 519-10	
NO.	DATE
102	12/17/58
103	1/14/59
104	2/10/59
105	3/10/59
106	4/10/59
107	5/10/59
108	6/10/59
109	7/10/59
110	8/10/59
111	9/10/59
112	10/10/59
113	11/10/59
114	12/10/59
115	1/10/60
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142	4/10/62
143	5/10/62
144	6/10/62
145	7/10/62
146	8/10/62
147	9/10/62
148	10/10/62
149	11/10/62
150	12/10/62



REF. DWG  
 D-304-642  
 NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

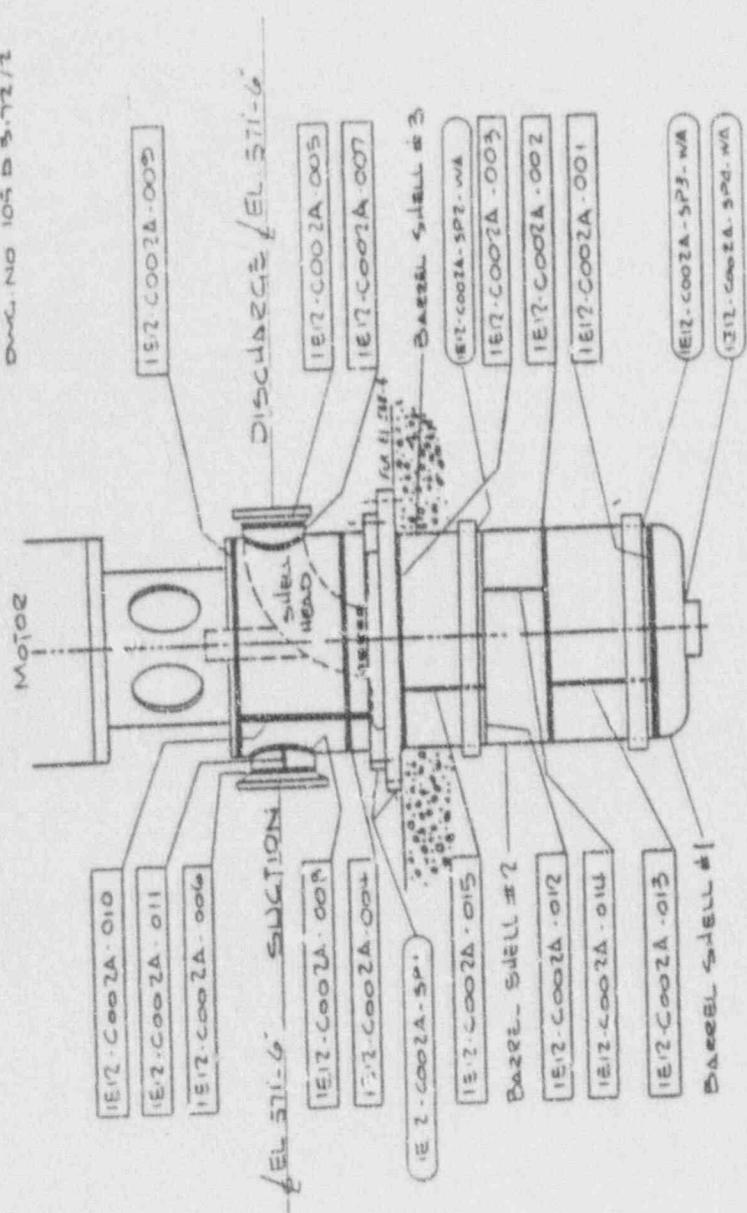


RHR HEAT EXCHANGER BOOIC  
 55-305-641-122

REV	DATE	BY	CHKD	DESCRIPTION
1	12/17/58	W	W	REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCM 3542
2	1/14/59	H	H	
3	2/10/59	M	M	
4	3/10/59	16	16	
5	4/10/59	16	16	

NOTE:  
 1 ALL PIPING ON THIS  
 MO IS CLASS 2  
 2 P.S. I O.B. 73  
 ISI E12-026  
 3 REF ISO DWG'S:  
 SS-305-641-101 SUCTION  
 SS-305-641-102 DISCH.

REF DWG'S:  
 BYRON JACKSON PUMP  
 SECTIONAL DWG. IF 7030/B  
 GENERAL ELECTRIC CO.  
 DWG. NO 105 D 5.72/2



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PUMP NUMBER	Power Plant
ISI PUMPING DWG. SYSTEM	UNIT
212 PLUMB # COOZA LOOP A	
WELD ALIGNMENT	
DATE	ISSUED APPROVAL
1967	JK M/A
115	115
1967-05-06	170
17	17

REF DWG.  
 D-209-692  
 NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

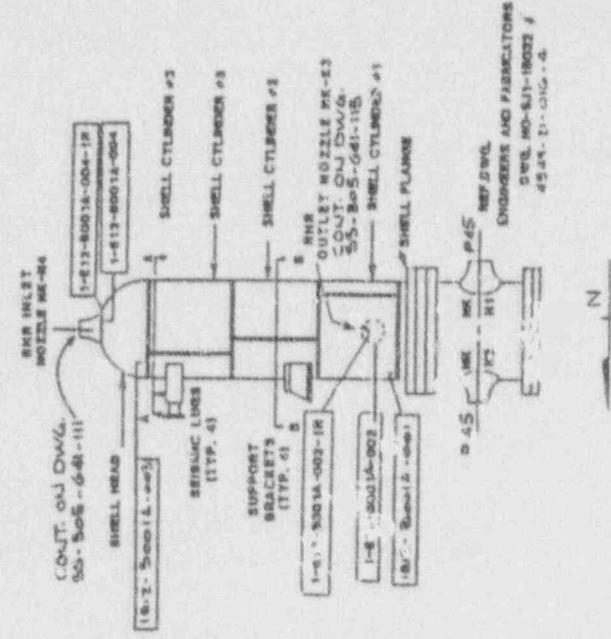
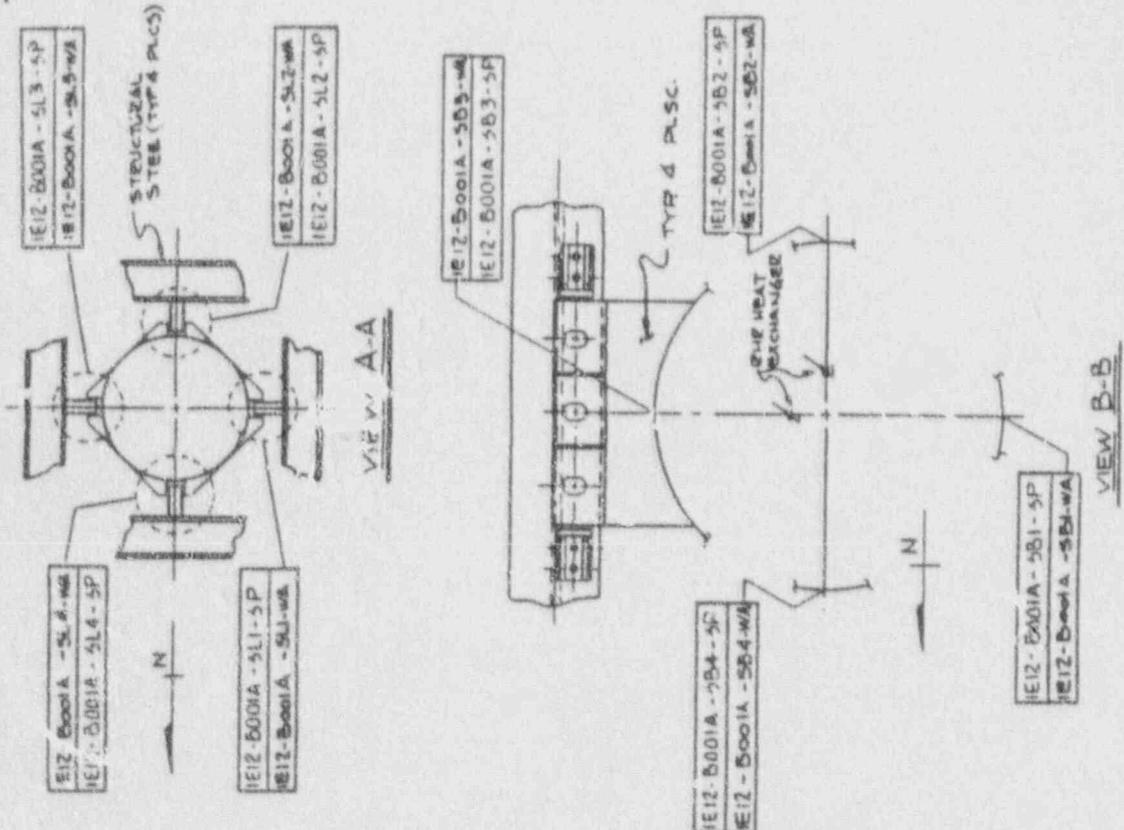
REV	DATE	BY	CHKD	APPROVED
B	22	M	H	
2				
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611				

**NOTE:**

1. ALL PIPING ON THIS DWG. IS CLASS Z
2. PSI 03-22
3. REF. DWGS: D-512-023  
D-512-028

REF. DWGS.  
D-304-642  
D-304-643  
NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		UNIT 1
PERRY MACHINE PARTS		
ISI PIPING DWG. SYS. E12		
RHR HEAT EXCHANGER		
#	DESCRIPTION	QUANTITY
1	5001A LOOP A	1
MATERIALS		
5001A	VIA	11A
5001A	1/2"	11
DATE: 05-30-64		
BY: E12	DESIGNED BY: SS-305-641	REV: 1



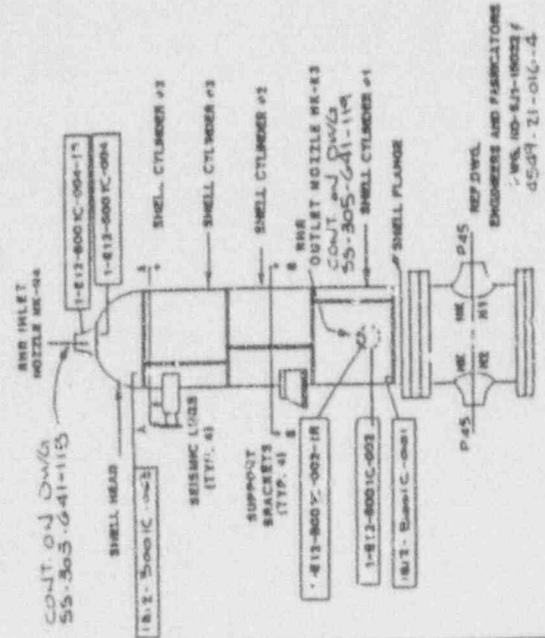
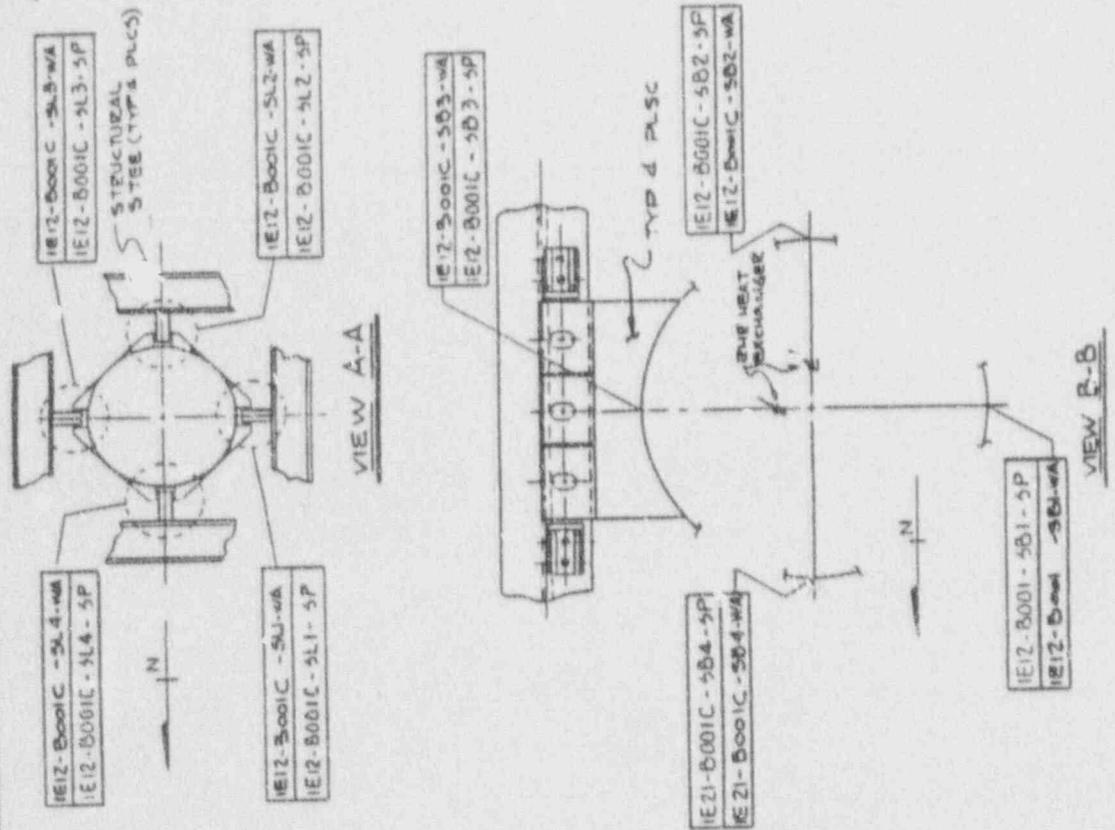
REV	DATE	BY	CHK	APP
01	05/30/64	SS-305-641		
REVISED TO CURRENT STANDARDS/PRAT				
PER DCN 8942				

**NOTE:**

1. ALL PIPING ON THIS DWG. IS CLASS 2
2. DSI 03-21B  
151 E12-023
3. REF DWG: D-512-023  
D-512-023

REF. DWG.  
D-309-642  
D-309-643  
NOTES: THIS DRAWING IS FOR  
151 PROGRAM FOR ORBIT AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		Perry Nuclear Power Plant		UNIT
151 PIPING DWG. SYS: E12		RHR HEAT EXCHANGER		NO. APPROVED
DATE	BY	CHKD	APP'D	REV
05/11/64	WJG	WJG	WJG	1
PROJECT NO. 55-305-501-122		SHEET NO. E12		OF 1



REV	DATE	BY	CHKD	APP'D
1	05/11/64	WJG	WJG	WJG
REVISED TO CURRENT 151 PROGRAM STANDARD/FORMAT PER DCN 3542				

ENGINEER AND FABRICATOR  
- W.S. RD-817-10023 f  
d5d7, 21-016-4

**NOTE 5 :**

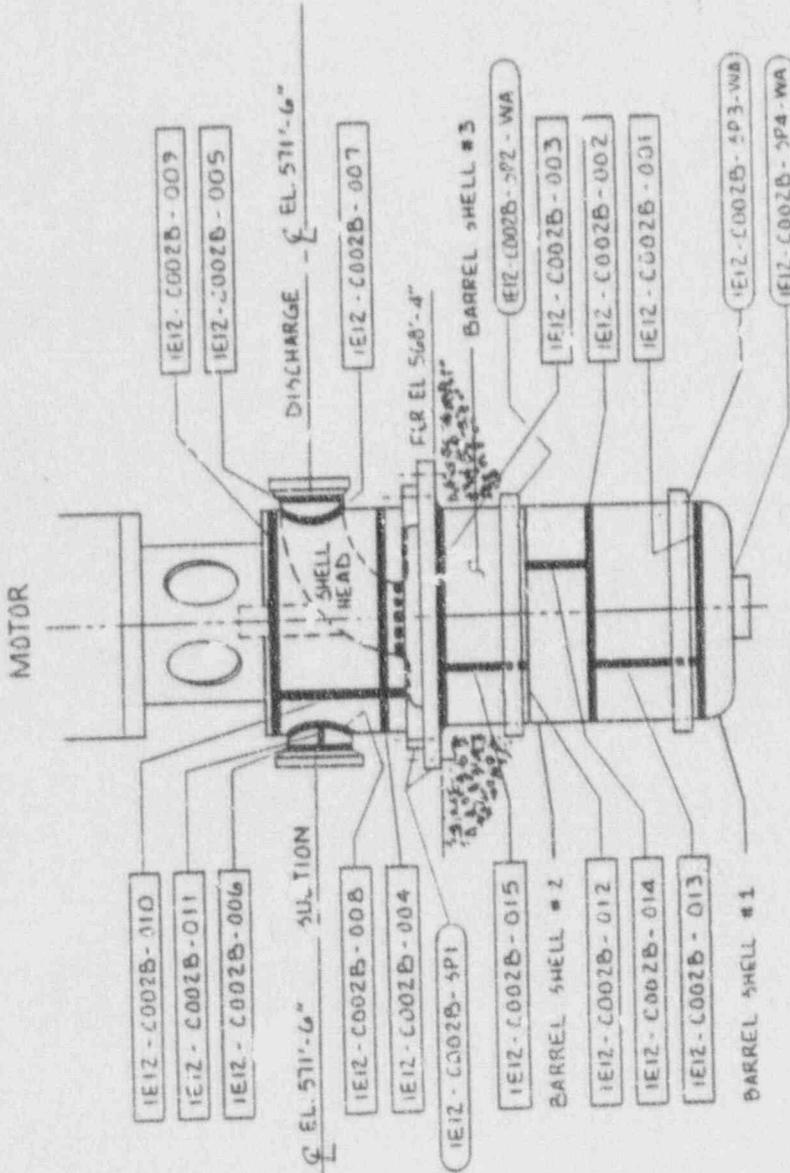
1. ALL PIPING ON THIS ISD IS CLASS - 2.
2. REF. ISO. DWG'S :  
 52-305-642 - 114 SUCTION  
 52-305-643 - 101 DISCHARGE

**REF. DWG'S :**

BYRON JACKSON PUMP SECTIONAL  
 DWG. 1F-7B30/B  
 GENERAL ELECTRIC CO. DWG. NO.  
 105 D5172/2

REF DWG.  
 D-204-691

NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

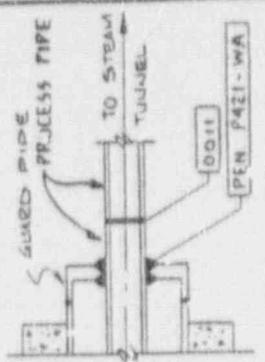
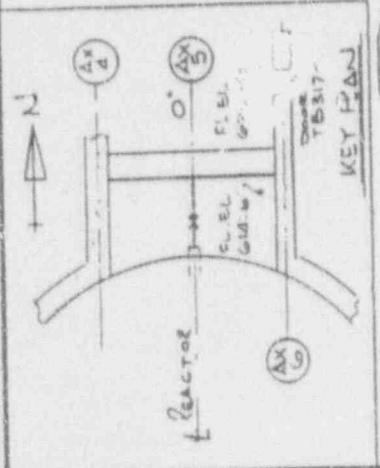
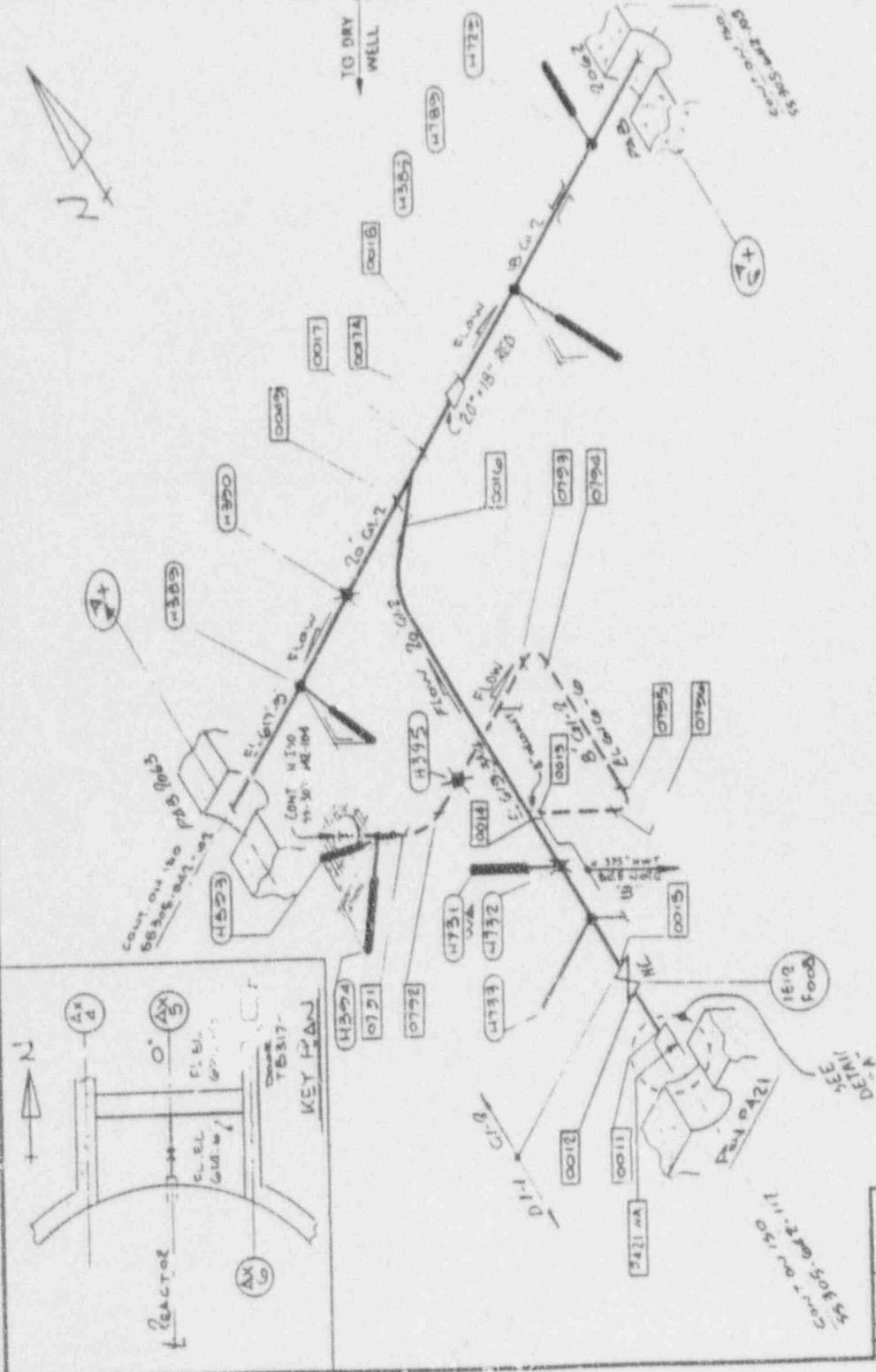


REVISED TO CURRENT ISO PROGRAM STANDARDS/FORMAT PER DCN 3411	DATE	BY	CHKD	APP'D
	8/22/88	M	H	A

THE GENERAL ELECTRIC ENGINEERING COMPANY		PAPER NUMBER		FIG. NO.	
ISO PIPING DWG. 515 E12		RHR PUMP # C002B		LOOP-B' HEAD ARRANGEMENT	
DATE	BY	CHKD	APP'D	REV.	NO.
8/22/88	M	H	A		
PROJECT NO.			52-305-641-123 A		

Notes -

- 1. ALL PIPING ON THIS 150 PS CLASS IS E12
- 2. PSI 03-01
- 3. ISI E12-001



DETAIL "A"

NOTES CONT.:

- 3. SUPPORTS WELDS ON PIPING THAT IS LESS THAN 0.375 THK DO NOT REQUIRE VISUAL INSPECTION (COU CASE N 402).

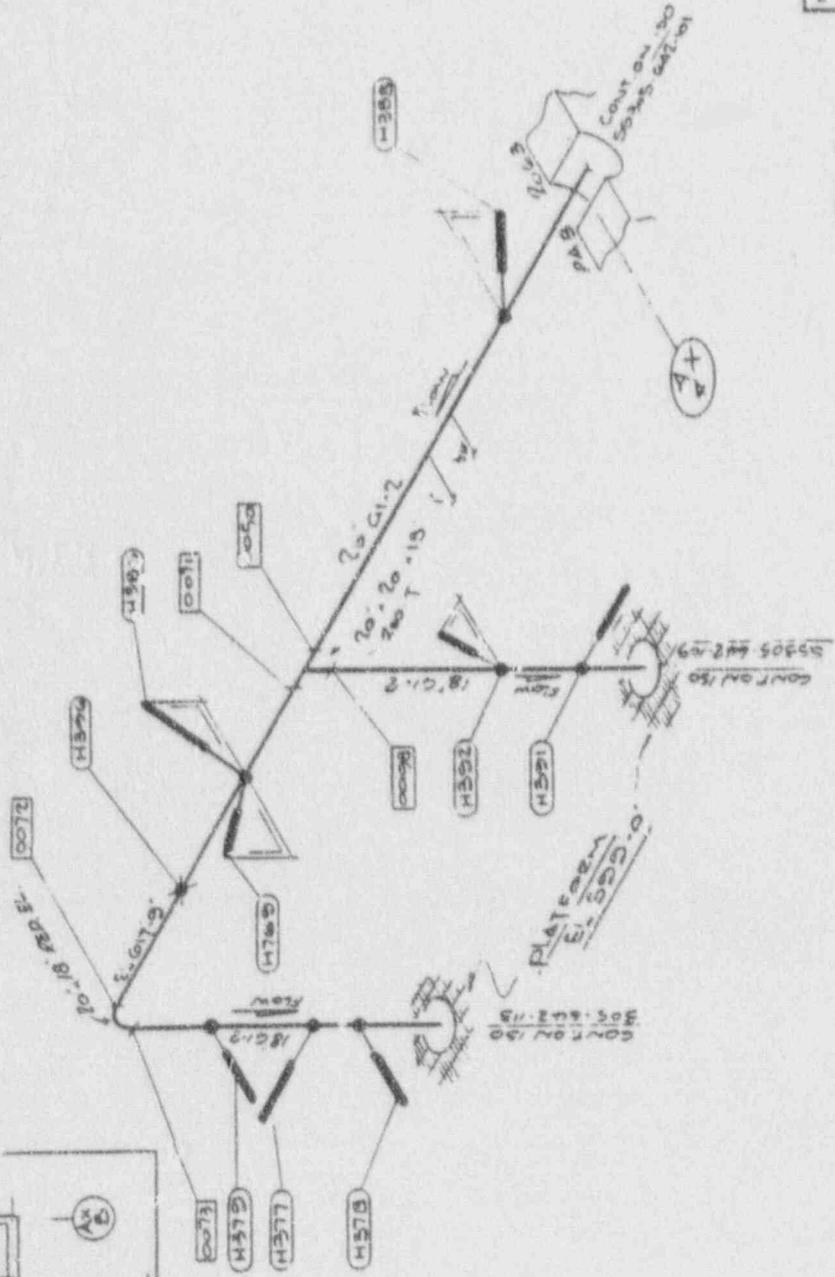
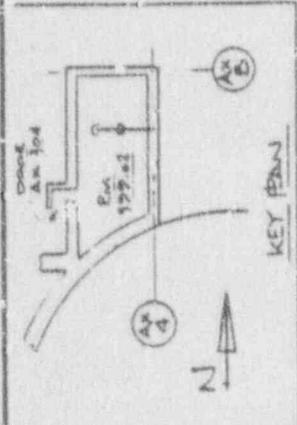
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
ISI PIPING 150 PS E12	
R/R	COMMON
STEAM TUNNEL - E-1014 G	
DATE	ISSUED
1/26/54	1/27/54
BY	CHK
W.A.	R.L.
DATE	ISSUED
1/26/54	1/27/54
BY	CHK
W.A.	R.L.
DATE	ISSUED
1/26/54	1/27/54
BY	CHK
W.A.	R.L.

INTER-TRIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REV. DWG  
2-204-1034

REV	DATE	BY	CHK	APP	DESCRIPTION
1	1/19/54	M	H		REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
2	1/21/54	J	J		
3	1/21/54	J	J		
4	1/21/54	J	J		

Notes -  
 1. ALL POINTS ON T.I.'S  
 150 IS CLASS 2  
 2. PSI 05-01  
 151 E12-001

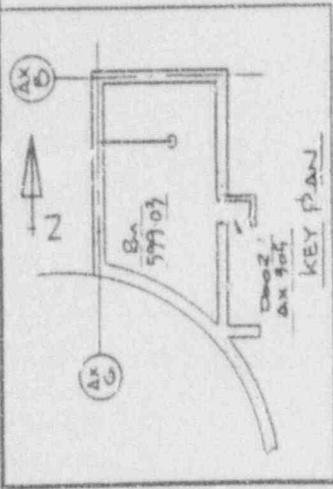


THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet No: 1
Project No: ISI PIPING 150 SPS E12	Scale: 1" = 10'
Project Title: PHR LOOP COMMON	Project Location: AUXILIARY BLOC EL379.0
Project Description: PHR LOOP COMMON	Project Status: AS BUILT
Project Date: 11-11-11	Project Location: N/A
Project No: 55205-642-102	Project Location: N/A
Project No: 55205-642-102	Project Location: N/A
Project No: 55205-642-102	Project Location: N/A

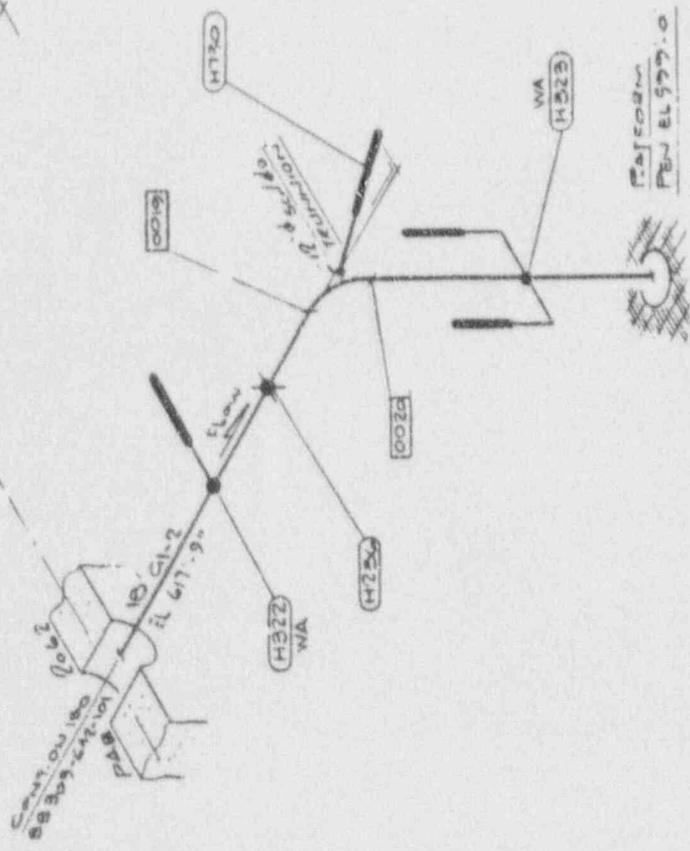
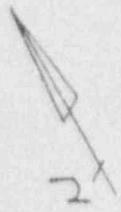
REF DMG.  
 D-304-643  
 D-304-644

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

PER DCN 3611
REVISED TO CURRENT
151 PROGRAM
STANDARDS/FORMAT
B. 22
M. 11
H. 11
W. 11



NOTE -  
 1 ALL PIPING ON THIS  
 ISO IS CLASS 2  
 2 PSI 03.01  
 3 PSI 02.001



CONT. ON 150  
 55905-642-105

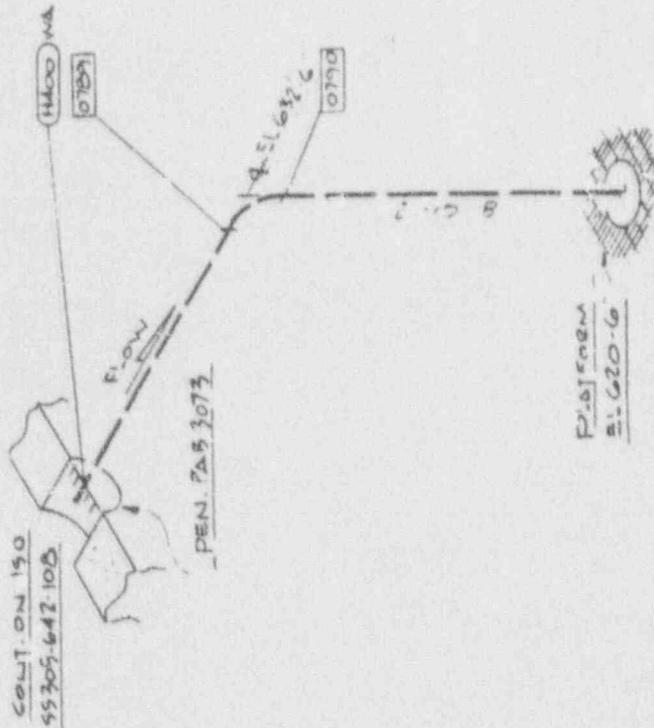
REF. DWG.  
 D-309-644

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		
PROJECT NUMBER	UNIT	DATE
151 PIPING	150 SYS EIR	
RHE	COMMON	
AUXILIARY BLDG 51577.0		
NO.	REV.	DATE
106	1	10/11/84
107	1	11/13/84
108	1	1/7/85
SCALE 1/2" = 1'-0"		
DRAWING NUMBER		
105		

REV	DATE	BY	CHKD	APP'D	REVISION
B	11/13/84	M	H		
A	10/11/84	M	H		
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542					

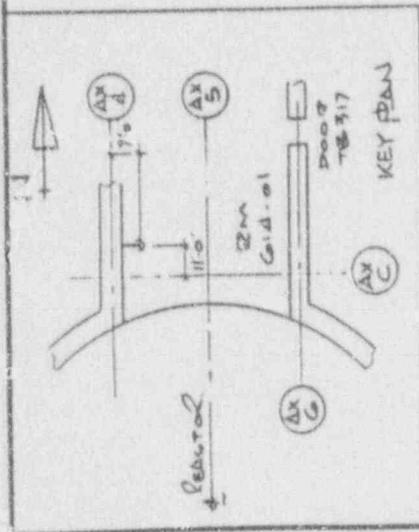
- NOTE --
1. ALL PIPING ON THIS IS 150 LB CLASS ?
  2. PSI 03-01  
151 E17-001
  3. ALL PIPING ON THIS IS 150 LB LESS THAN .375" JMW. THIS DIMING DOES NOT REQUIRE INTERVICE INSPECTION (CODE CASE N 408).



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		
Project Number	Sheet	UNIT
151 PIPING 150 STS E17	57	
R/R LOOP COMMON		
STEAM TUNNEL EL 620-6		
DATE	ISSUED	
02-17-11	PK	-11 R/S
03-17-11	1/1/11	0/10
03-17-11	0/10	0/10
03-17-11	0/10	0/10
03-17-11	0/10	0/10
03-17-11	0/10	0/10
DATE		SCALE
03-17-11		55305-642-101
DATE	ISSUED	
03-17-11	0/10	

REF. DWG. 0-304-644

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATOR/INSTALLATION



CONT. ON 150 55305-642-101

Piping on E1-620-6

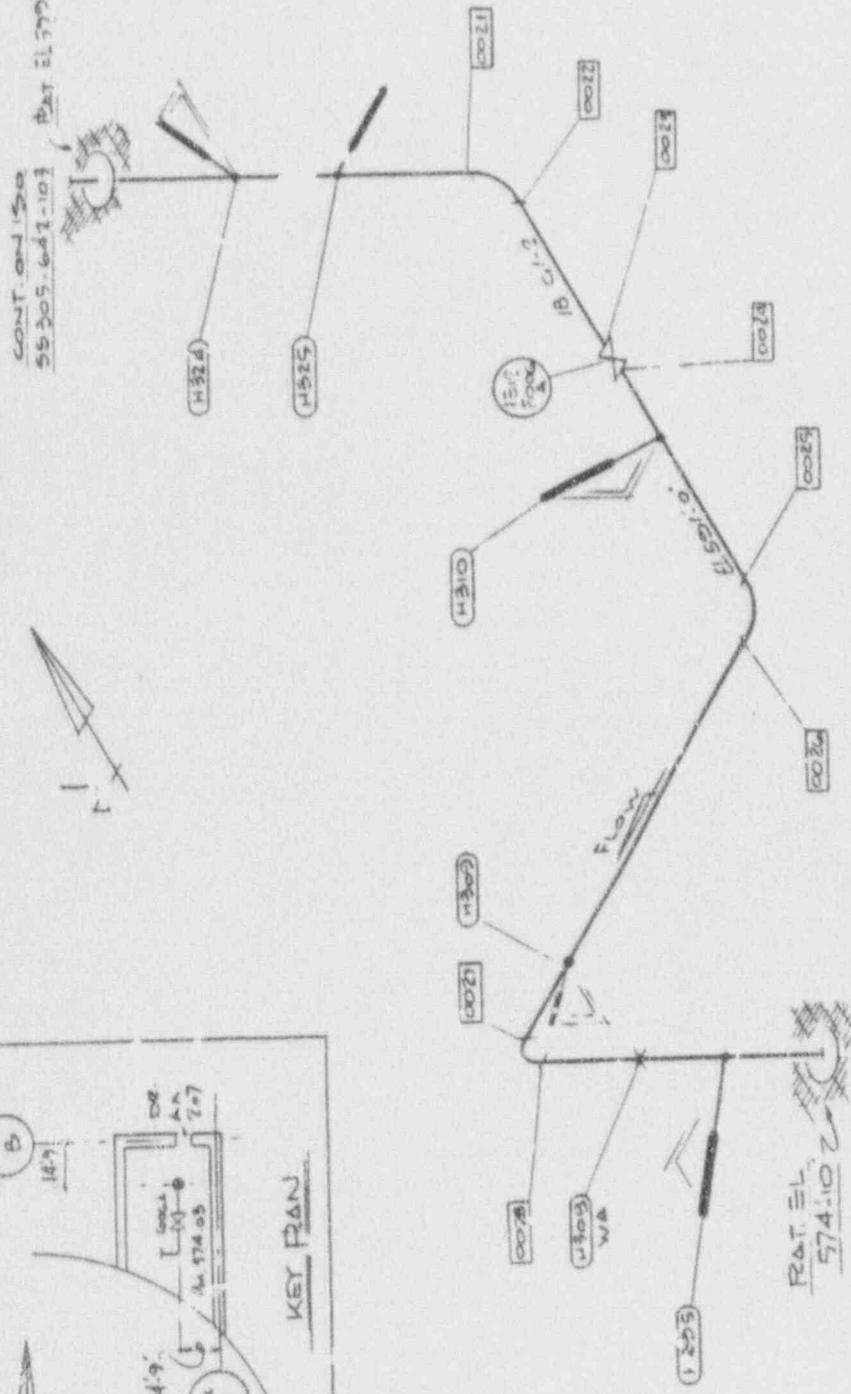
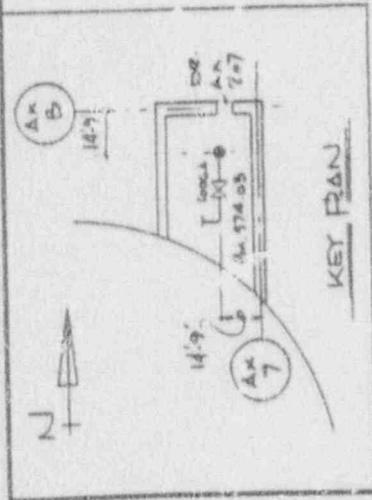
REV	DATE	APP'D	DESCRIPTION
B	08-22-11	M.H.	REVISED TO CURRENT STANDARDS/FORMAT
A	07-01-11	C.H.	ISI PROGRAM PER DCM 3611

NOTE -  
 ALL PIPING ON THIS  
 IS CLASS 2

2 251 03-01  
 PS 1 03-02  
 IS1 E12-001  
 IS1 E12-002

CONT. ON 150  
 55 305-641-103

REL. EL. 577.0



REF. DWG.  
 D-304-692

NOTE: THIS DRAWING IS FOR  
 IS1 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

CONT. ON 150  
 55 305-641-101

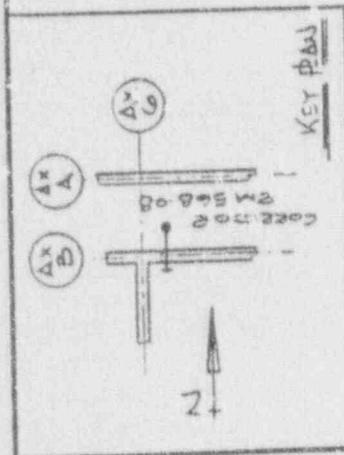
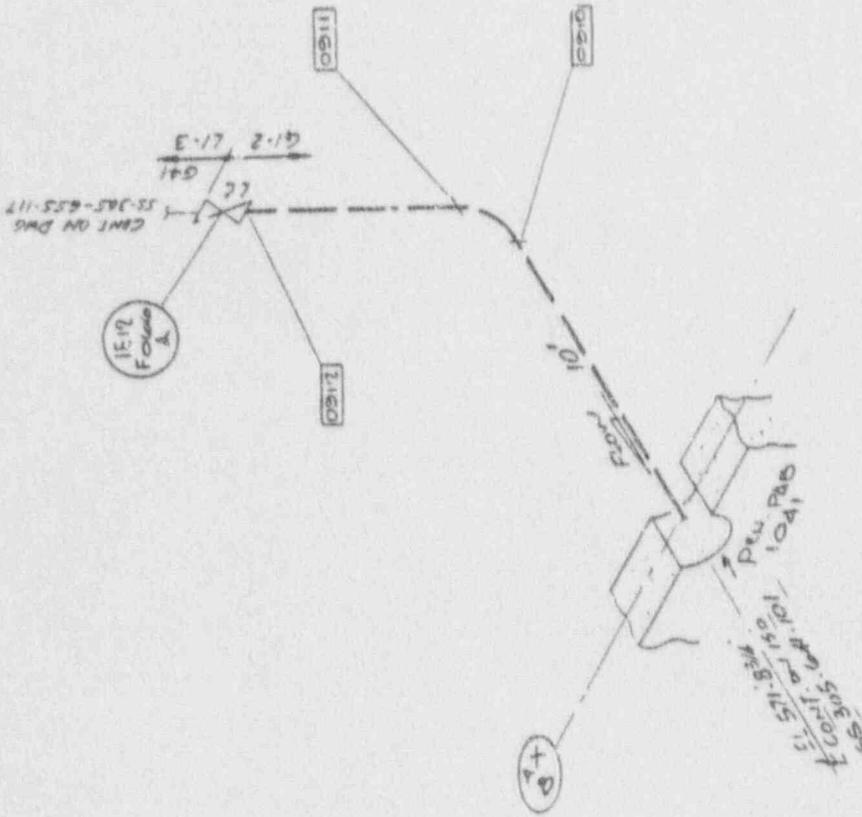
REL. EL.  
 574.10

REV.	DATE	BY	CHKD.	APP.	DESCRIPTION
B	10/22/91	K			REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3611
A	11/14/87	H			
1	08/21/87	H			

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55 305-641-101
UNIT	1
DATE	10/22/91
REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3611	
PROJECT NUMBER	55 305-641-101
UNIT	1
DATE	10/22/91

NOTE -

1. ALL PIPING ON THIS ISO IS CLASS C
2. PSI 03-02  
151 E12-002
3. ALL PIPING ON THIS ISO IS LESS THAN .375" NWT. SUPPORTS AND WELDS ON THIS PIPING DO NOT REQUIRE INSPECTION (CODE CASE J40B)



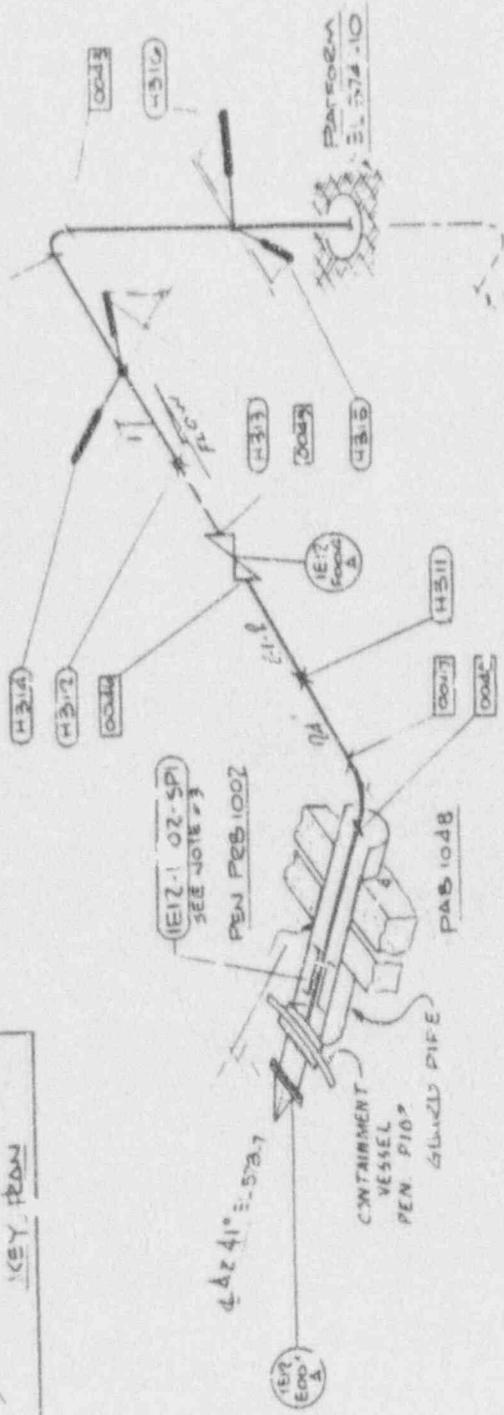
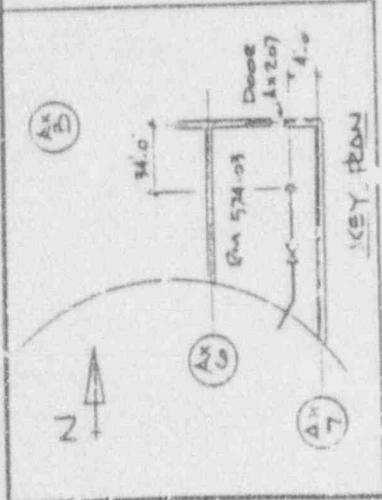
REF DWG.  
D-304-042

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number: Power Plant	Sheet: 5
151 PIPING ISO SYS E12	
RHR LOOP 'A'	
DATE: 11/11/69	BY: RHR
SCALE: N/A	REV: 1/1
PROJECT: 151-002	REVISED: 11/11/69
STATION: E12	REVISION NUMBER: 1

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT	PER DCN 3611
DATE: 8/22/91	BY: M.H.
DATE: 11/11/69	BY: RHR

NOTE:  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2  
 1 PSI 03-02  
 151 EQ-002  
 3. THIS SUPPORT IS INSIDE  
 THE RETRATED GUARD  
 PIPE AND THEREFOR  
 INACCESSIBLE FOR  
 EXAMINATION.



CONT. ON P2  
 305-641-101

REF. DWG:  
 0304642

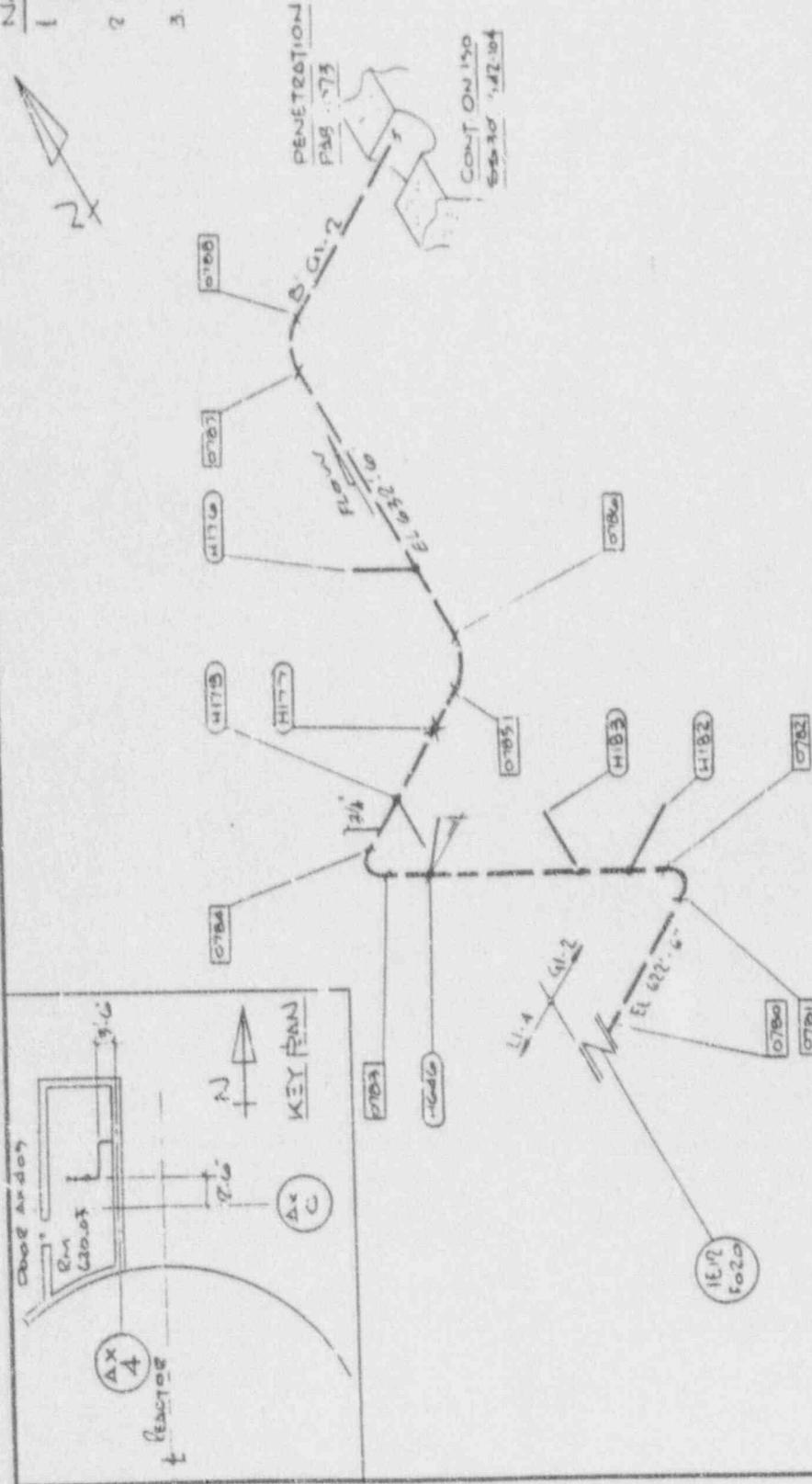
NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	305-641-101
DATE	151 PIPING 150 SYS 612
RHR LOOP 'A'	
BY	3/2/74
CHECKED	3/2/74
APPROVED	3/2/74
SCALE	AS SHOWN
PROJECT	305-641-101
REV	1

REV	DATE	BY	APPROVED
1		H	
2		H	
3		H	
4		H	
5		H	

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

- NOTE 1:
- 1 ALL PIPING ON THIS ISO IS CLASS 2
  - 2 PSI 03-01  
151 EIR-001
  - 3 ALL PIPING ON THIS ISO IS LESS THAN .375" NWT. 2 PENETRATION WELDS ON THIS ISO SHALL BE NOT BE SUBJECT TO SERVICE INSPECTION (CODE CASE N458)



NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION  
 REF. DING.  
 D-201-1019

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 Project Number: 55-30 1/27-04  
 ISI PIPING ISO 545 512  
 RHR LORRION  
 DRAWN BY: BULSK EL6006  
 CHECKED BY: [Signature]  
 DATE: 11/19/69  
 SCALE: AS SHOWN  
 SHEET NUMBER: 10  
 TOTAL SHEETS: 10

REVISED TO CURRENT STANDARDS/FORMATS PER DCN 5542

NO.	DATE	BY	APP'D
1	11/19/69	RHR	[Signature]

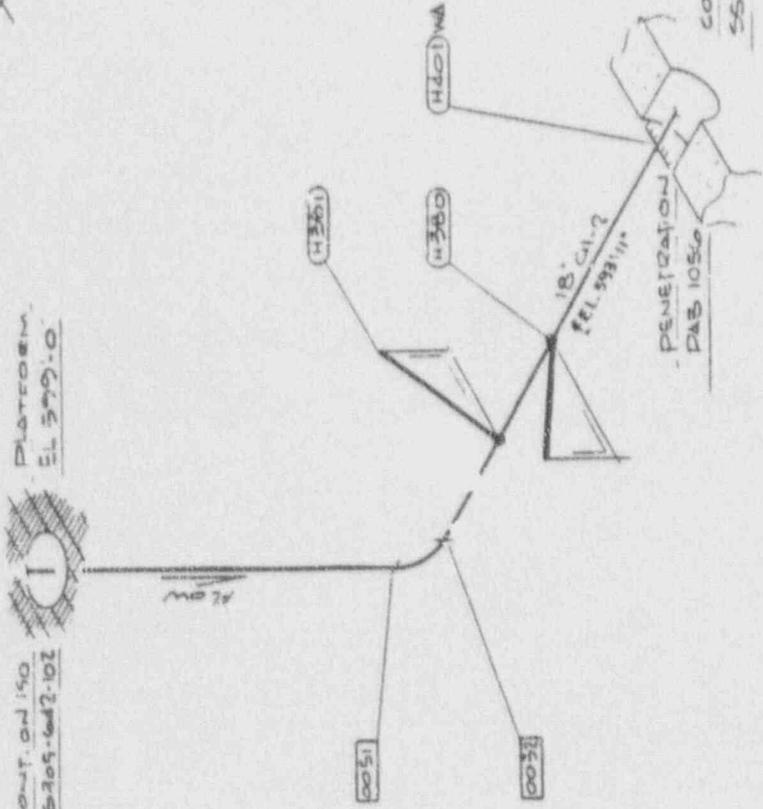
NOTE

- 1 ALL PIPING ON THIS IS 15 CLASS ?
- 1 PSI 03-01
- 151 517-001



Platform  
EL 579.0

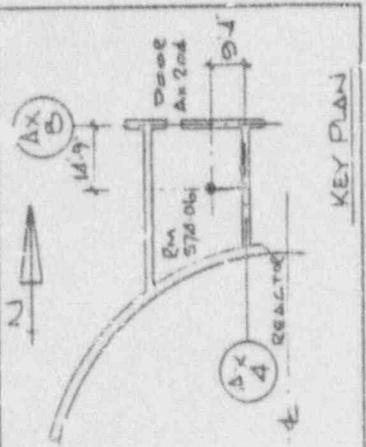
CONTR. ON ISO  
55305-642-102



PENETRATION  
PAB 10550  
CONTR. ON ISO  
55305-642-110

REF DWG  
D-309-241

NOTES THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION



KEY PLAN

THE DEVELOPED ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Power Plant 51
DATE	5/1
151 PIPING ISO SYS E12	
RHR LOOP CONVICTION	
LUXURIARY SALOON E.512.10	
NO.	REVISED
1008	1
1009	1
1010	1
1011	1
1012	1
1013	1
1014	1
1015	1
1016	1
1017	1
1018	1
1019	1
1020	1
1021	1
1022	1
1023	1
1024	1
1025	1
1026	1
1027	1
1028	1
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1032	1
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1090	1
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1097	1
1098	1
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1100	1

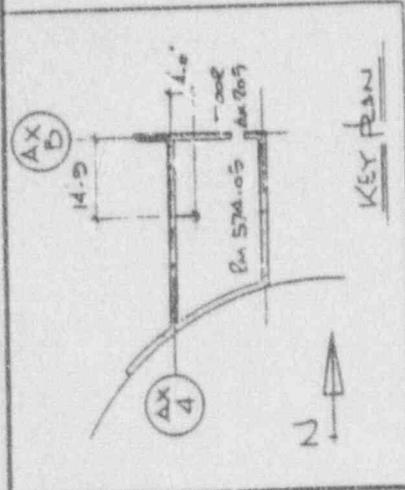
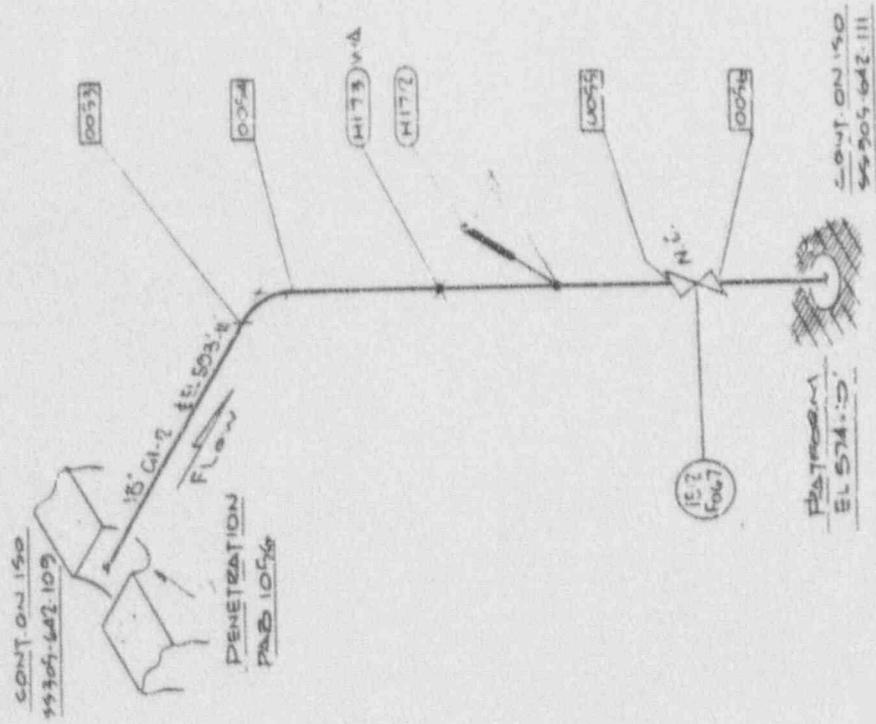
REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORMAT	PER DCN 3611
DATE	NO.	BY	APPROVED
10/22/91	1	M	
10/23/91	2	H	
10/24/91	3	F	
10/25/91	4	S	

Note -  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2  
 ? PSI 03-01  
 ISI E12-001  
 PSI 03-15  
 ISI E12-015

REF DWG.  
 0-204-691  
 0-309-642

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION, INSTALLATION

THE CLEVELAND ELECTRIC BELL-HEATING COMPANY	
PROJECT NUMBER	Sheet 1
151 PIPING 150 SPS E12	
RHR LOOP 'E' COMMON	
DRAWING BOARD E-574-10	
DATE	11/17/71
BY	JR
CHKD	JR
APP'D	JR
SCALE	N/A
PROJECT NO.	99305-642-110
SYSTEM	E12
UNIT	B



REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611			
DATE	BY	CHKD	APP'D
16 22 91	H M	H M	B J

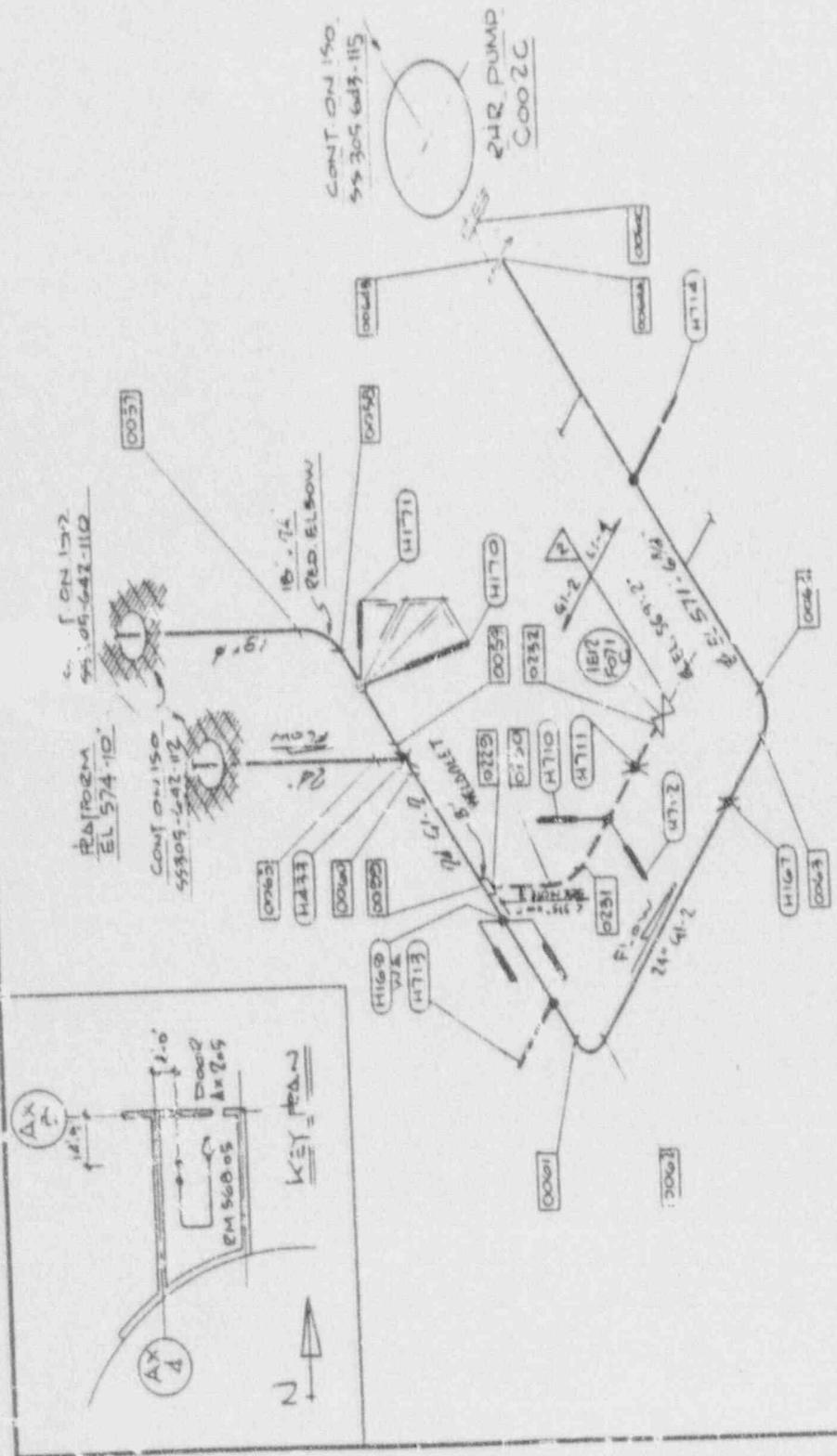
NOTE:

- ALL PIPING ON THIS IS 150 LB CLASS 2
- PSI 03-15  
ISI E12-01E
- SUPPORTS AND WELDS ON PIPING LESS THAN .375" THICK DO NOT REQUIRE INSERVICE INSPECTION, (CODE CASE H408)

REF. DMB  
D-304-6-91

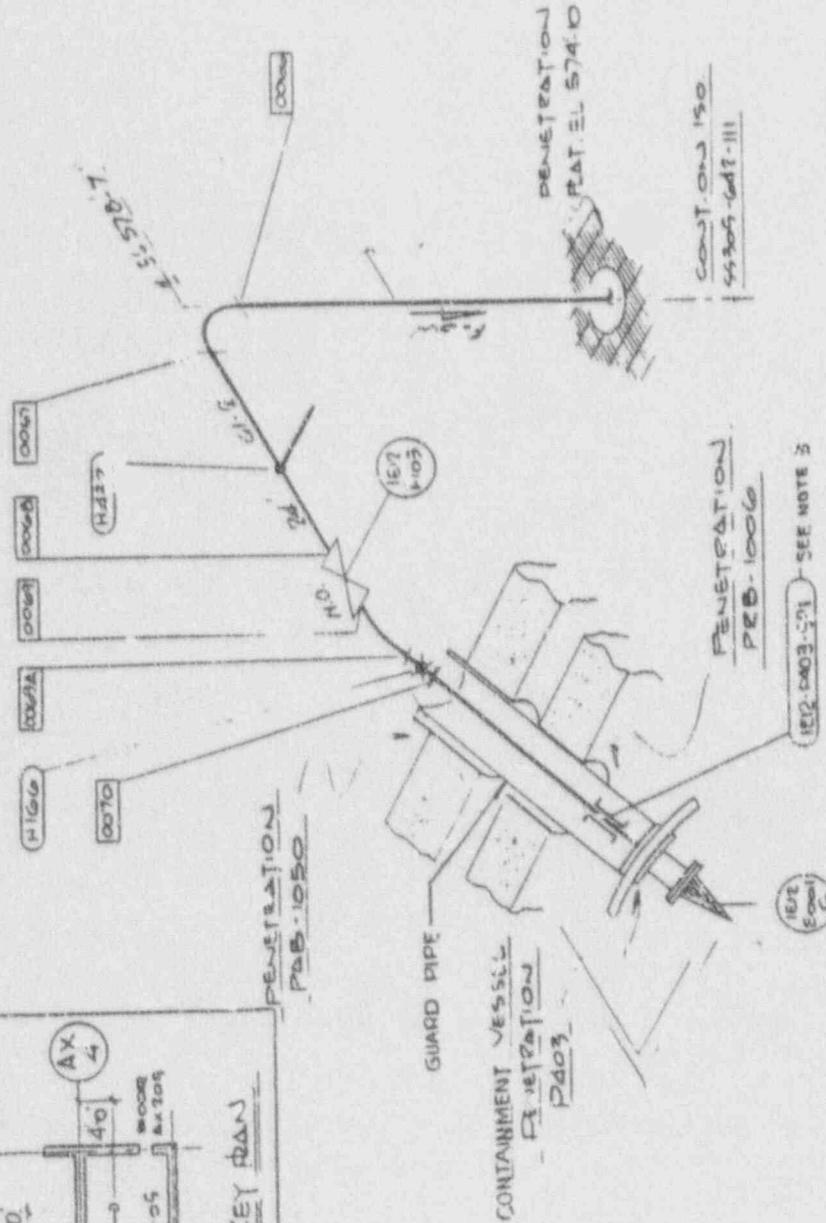
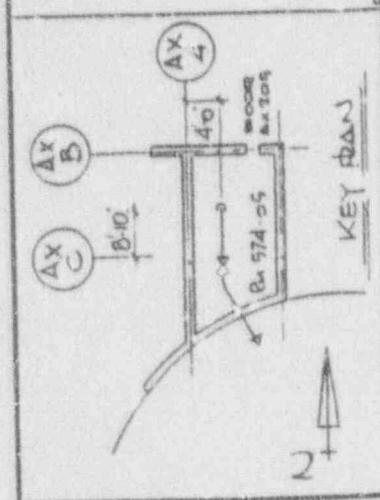
NOTE: UNLESS INDICATED OTHERWISE  
ALL DIMENSIONS ARE UNLESS AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	
PROJECT NO.	150 SWS 612
DATE	10/1/83
BY	WJR
CHECKED	WJR
APPROVED	WJR
SCALE	AS SHOWN
FIG. NO.	95-305-642-111
REV.	
DATE	
BY	
CHECKED	
APPROVED	



REVISED TO CURRENT	D	8	19	10	11
151 PROGRAM	M	10	10	10	10
STANDARDS/FORMAT	S	10	10	10	10
PER DCN 3542					

- NOTE -
- 1 ALL PIPING ON THIS 150 IS CLASS 2
  - 2 PSI 03-15  
151 E12-015
  - 3 THIS SUPPORT IS INSIDE THE PENETRATION GUARD PIPE AND THEREFORE INACCESSIBLE FOR EXAMINATION.



REF DWG  
D-304-641

NOTE: THIS DRAWING IS FOR 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Power Plant 54
UNIT	5
151 PIPING 150 SWS E12	
RHR LOOP 'C'	
DUMMILEY BLDG EL 574.0	
ISSUED AMOUNTS	
REV	DATE
1	11/11/68
2	11/11/68
3	11/11/68
4	11/11/68
5	11/11/68
6	11/11/68
7	11/11/68
8	11/11/68
9	11/11/68
10	11/11/68
DATE 15035-642-112	
SHEET NO. 12	
TOTAL SHEETS 12	
DESIGNED BY	
CHECKED BY	
APPROVED BY	
SCALE	
PROJECT NO.	
JOB NO.	
SHEET NO.	
TOTAL SHEETS	

REV	DATE	BY	CHKD	APPROVED
1	11/11/68	JH	JH	JH
2	11/11/68	JH	JH	JH
3	11/11/68	JH	JH	JH
4	11/11/68	JH	JH	JH
5	11/11/68	JH	JH	JH
6	11/11/68	JH	JH	JH
7	11/11/68	JH	JH	JH
8	11/11/68	JH	JH	JH
9	11/11/68	JH	JH	JH
10	11/11/68	JH	JH	JH
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT P&R DCN 3630 AND DCN 3630				

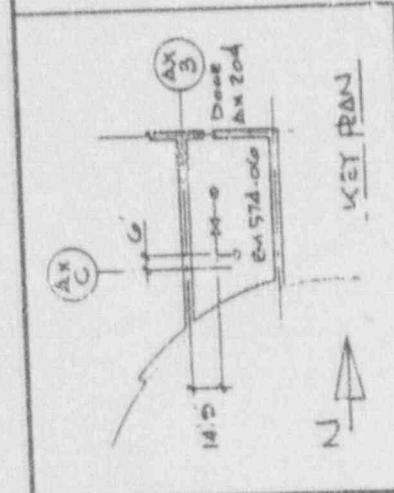
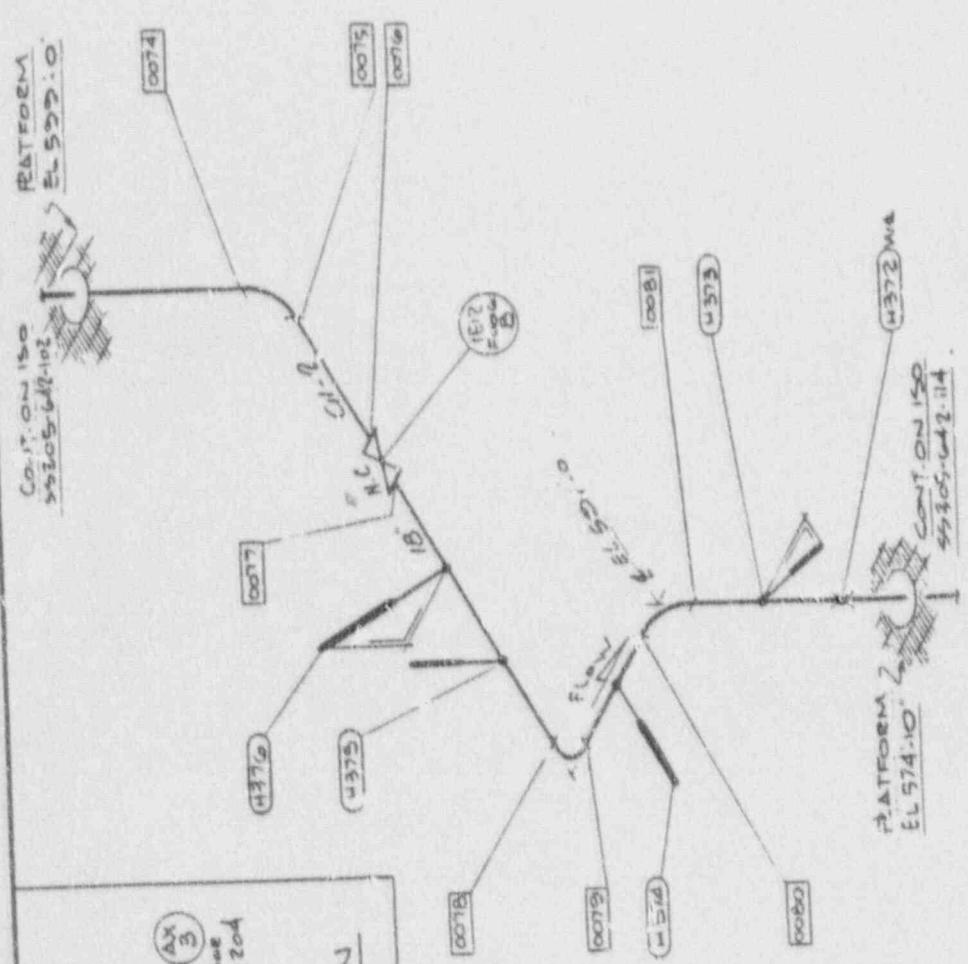
NOTES:  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2

2 P.S.I. 03  
 151 E/2-000  
 141 03-01  
 151 E12-001

SEE 2110  
 D-204-591

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATOR/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PLANT NAME: Plant	55 UNIT
151 PIPING 150 SFS E12	
RHR LOOP B.I. COMMON	
BLK. IN BRY BLDG EL 574-10	
DATE: 12/11/81	DESIGNED BY: [Signature]
DATE: 12/11/81	CHECKED BY: [Signature]
DATE: 12/11/81	APPROVED BY: [Signature]
DATE: 12/11/81	ISSUED BY: [Signature]
DATE: 12/11/81	PROJECT NUMBER: 55-305-042-113
DATE: 12/11/81	REVISION NUMBER: 5
DATE: 12/11/81	DWG. NO.



REVISED TO CURRENT  
 ILL PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

Note :-

1. ALL PIPING ON THIS  
150 IS CLASS 2

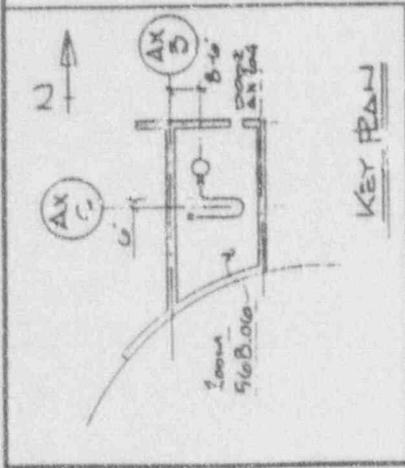
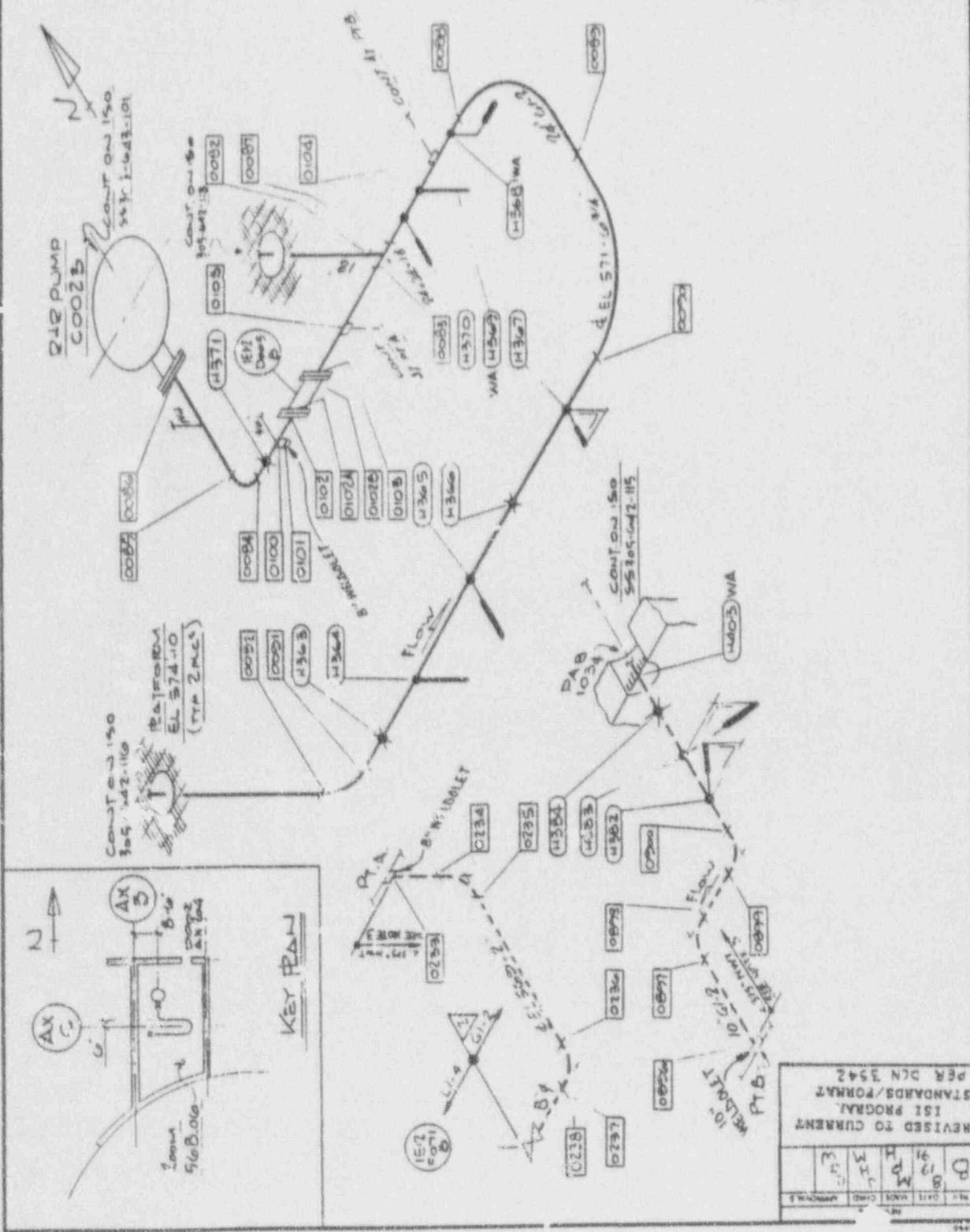
2. PSI 03-09  
ISI E12-00D

3. SUPPORTS AND WELDS ON  
PIPING LESS THAN .315" THICK  
DO NOT REQUIRE SERVICE  
SECTION,  
(CODE LASE H00R)

REF. DWG.  
2-30A-641

IN THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

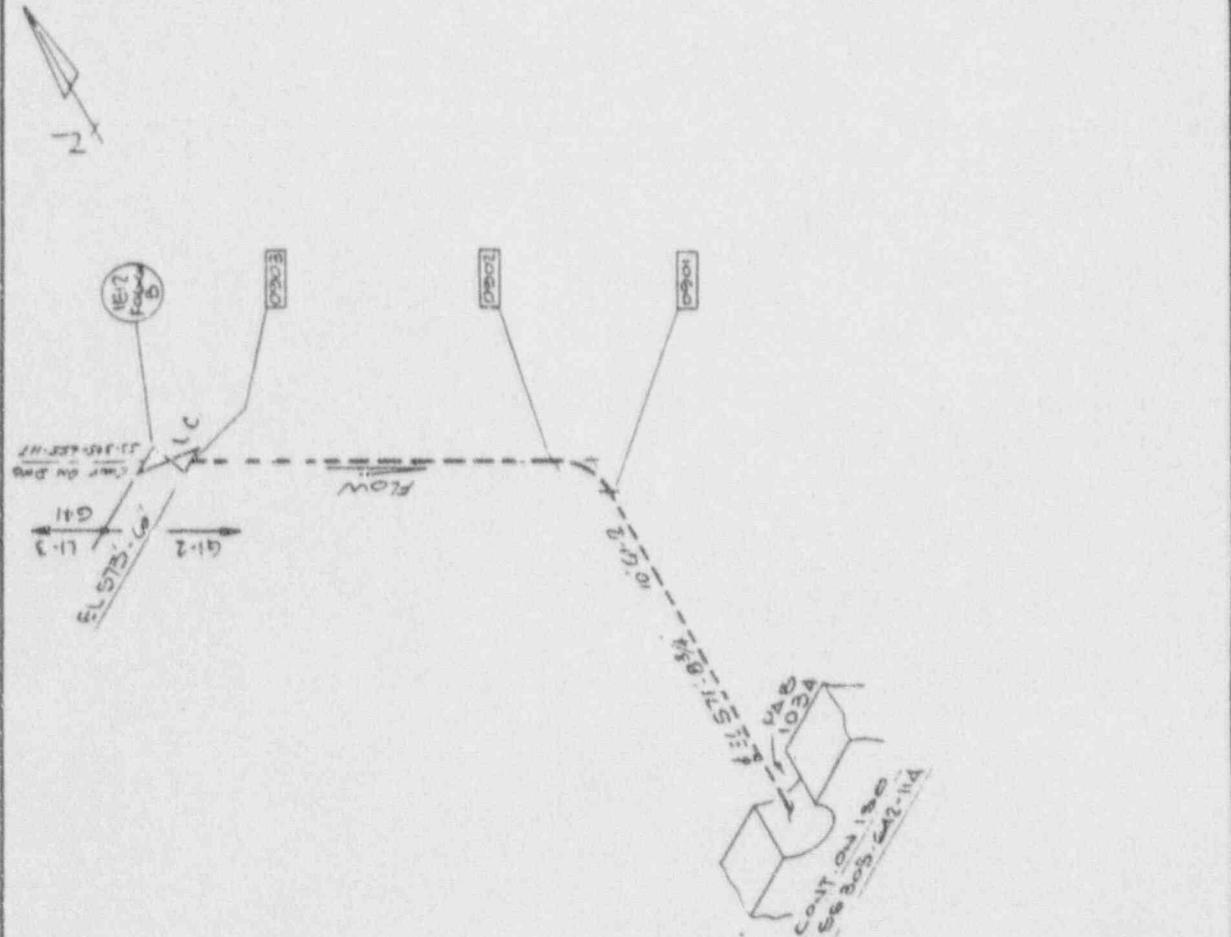
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 101
ISI PIPING 150 SPS E12	
ALTERNATE BLDG. E6 540-10	
DATE: 11/10/11	ISSUED APPROVALS:
BY: J.P. FOX	11/12/11
BY: J.L. WATSON	11/14/11
BY: J.S. MOORE	11/17/11
BY: J.C. MOORE	11/17/11



NO. 011	NO. 012	NO. 013	NO. 014	NO. 015
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

NOTE:  
 1. ALL PIPING ON THIS IS 15 CLASS 2  
 2. PSI 03-00  
 [SI] 512-005  
 3. ALL PIPING ON THIS IS 150 LB LE69 THAN .375" NWT. SUPPORTS AND WELDS ON THIS PIPING DO NOT REQUIRE INSERVICE IN-SECTION. (CODE CASE N-408)



REF DWG  
 D-209-641

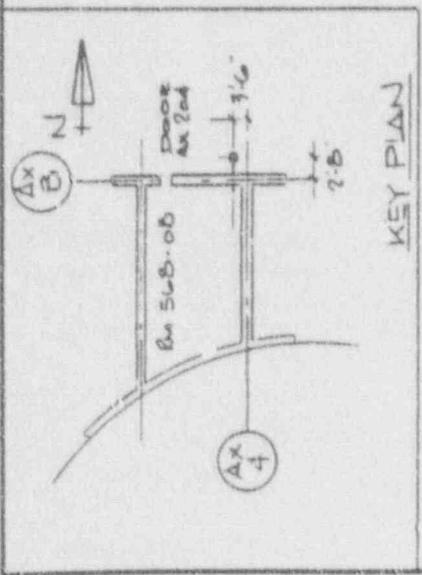
NOTES: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PARTY NUMBER: Project File # 51 Unit 1

ISI PIPING, 150 SY, 152  
 RHR LOOP 'B'  
 AUXILIARY BUS, EL. 568.0

DATE	DESCRIPTION	BY	CHKD
11-10-77	150 SY	11/10/77	11/10/77
11-10-77	150 SY	11/10/77	11/10/77

55305-442-115  
 150 SY



NO.	DATE	BY	CHKD	DESCRIPTION
01	11-10-77	11/10/77	11/10/77	150 SY
02	11-10-77	11/10/77	11/10/77	150 SY

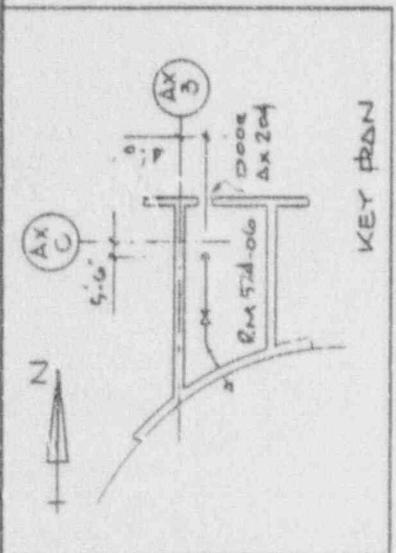
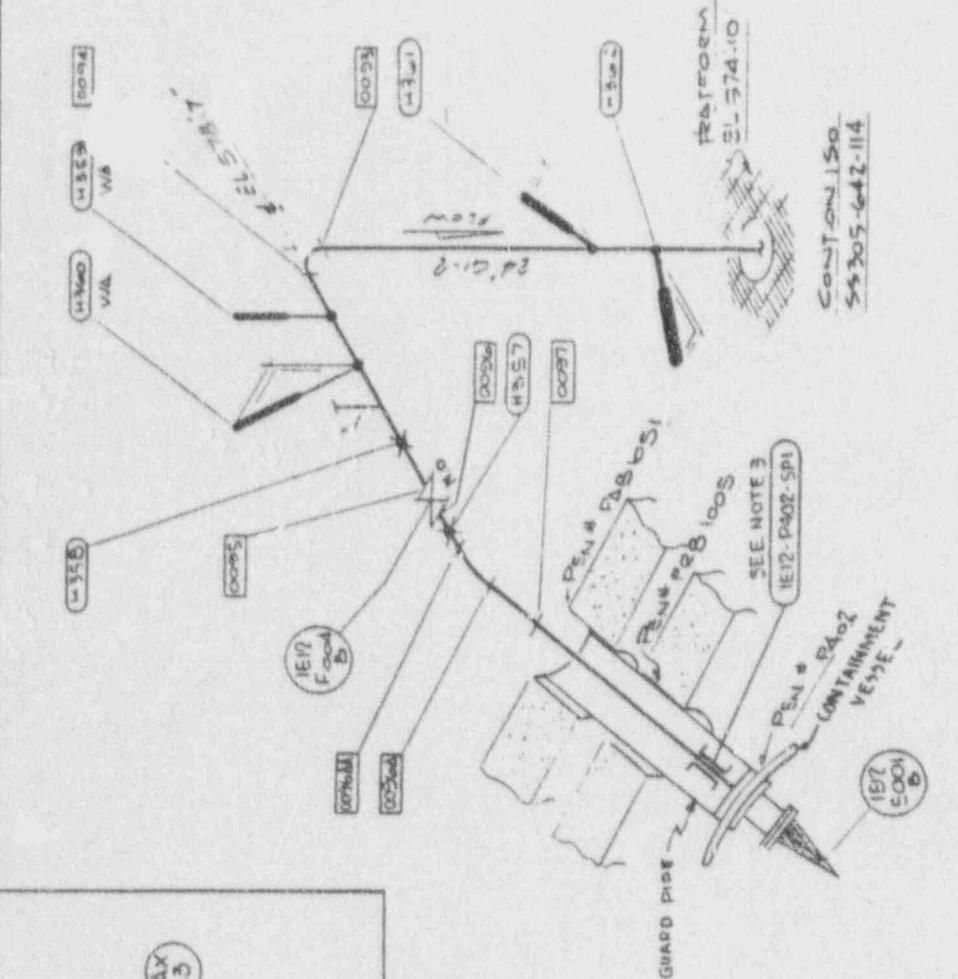
REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

NOTES -  
 1 ALL PIPING, ON THIS 150 IS CLASS 2.  
 2 PSI 03-00  
 151 ER-005  
 3 THIS SUPPORT IS INSIDE THE VEGETATION GUARD PIPE AND IS INACCESSIBLE FOR EXAMINATION.

SEE QVIG  
 D-304-691

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		
PROJECT NAME	Power Plant	Sheet No. 1
PROJECT NO.	151 PIPING 150 SMS E12	DATE
DRAWN BY	RHR LOOP B	SCALE
CHECKED BY	E. S. 574.10	REVISED BY
DATE	11/15/74	REVISION
NO.	1	DESCRIPTION
55305-642-114		SCALE
E12		PROJECT NO.
B		DATE



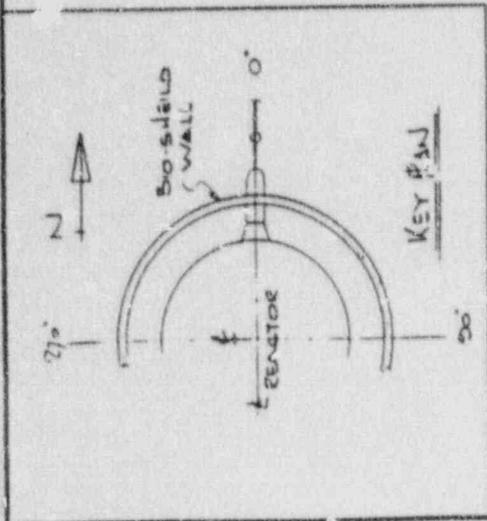
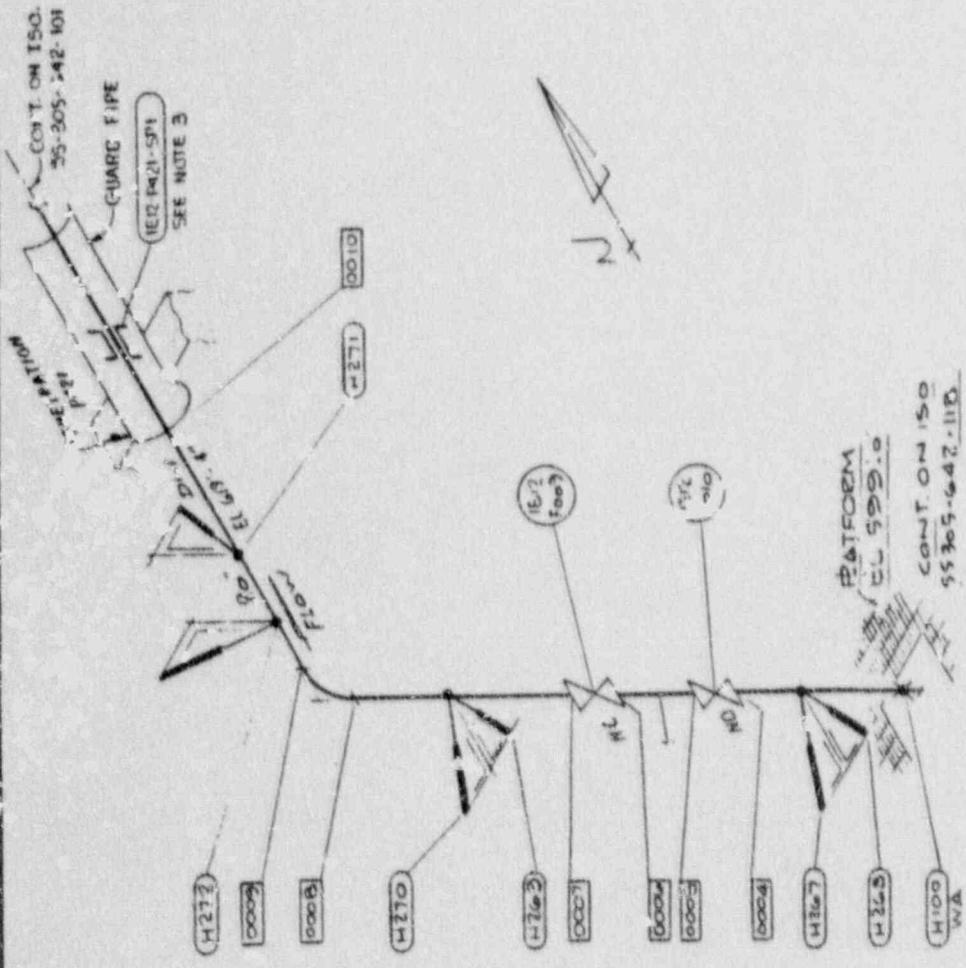
REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

Note .  
 1 ALL PIPING ON THIS  
 ISO IS CLASS 1  
 2 PSI 03-01  
 ISI E12-001  
 3 THIS SUPPORT IS INSIDE  
 PENETRATION GUARD PIPE AND  
 IS INACCESSIBLE FOR  
 EXAMINATION.

REF DWG  
 D-304-646

NOTES: DRAWING IS FOR  
 ISI PROGRAM FOR DRIFT AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY Perry Machine Works Plant 27 2111	
ISI PIPING, ISO SPS E12	
R218 LOOP - COMMON	
REACTOR BLDG. EL. 1000.0	
W.P. (OWNER)	W.P. (ENGINEER)
W.P. (DATE)	W.P. (DATE)
W.P. (NO.)	W.P. (NO.)
W.P. (REV.)	W.P. (REV.)
W.P. (SCALE)	W.P. (SCALE)
W.P. (SHEET)	W.P. (SHEET)
W.P. (PROJECT)	W.P. (PROJECT)



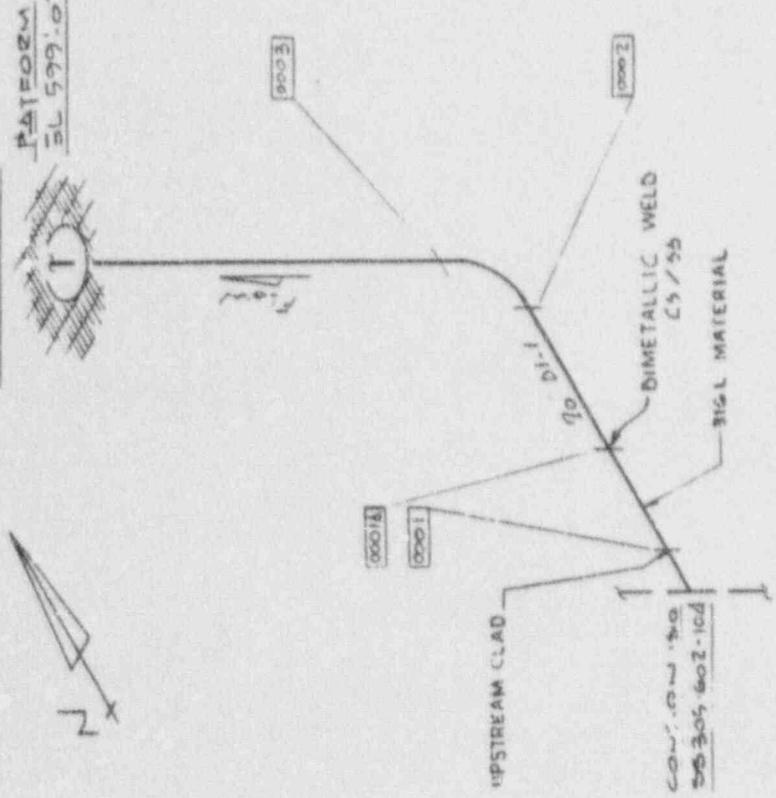
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 5611
DATE: 11/11/11
BY: [Signature]
CHK: [Signature]
APP: [Signature]
SCALE: 1/2" = 1'-0"
SHEET: 2
PROJECT: 44307-42-117
DESCRIPTION: [Blank]

NOTE  
 | ALL PIPING ON THIS  
 | IS CLASS I  
 | 2 PSI 03-01  
 | ISI E12-001

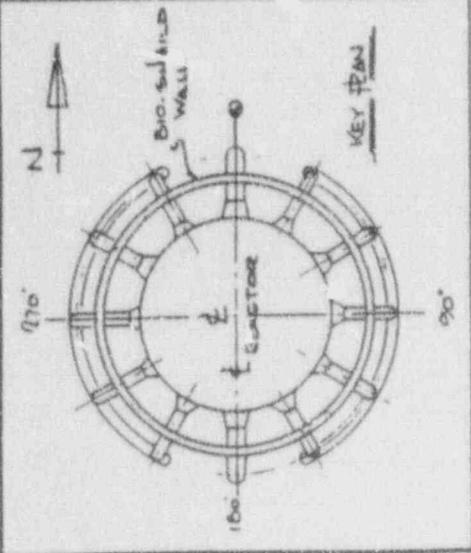
REF DWG  
 D-304-646

NOTES: DRAWING IS FOR  
 1ST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Sheet Number: Sheet 1 of 1			DATE: 11/11/54
TSS PIPING 150 SYSE12			
RHR LOOP DOMINION			
REACTOR BLDG E-374-10			
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
11/11/54	11/11/54	11/11/54	11/11/54
11/11/54	11/11/54	11/11/54	11/11/54
11/11/54	11/11/54	11/11/54	11/11/54
11/11/54	11/11/54	11/11/54	11/11/54
11/11/54	11/11/54	11/11/54	11/11/54



CONT ON 150  
 56305-642-117



NO.	DATE	BY	APPROVED BY	REVISIONS
1	11/11/54	11/11/54	11/11/54	11/11/54
2	11/11/54	11/11/54	11/11/54	11/11/54
3	11/11/54	11/11/54	11/11/54	11/11/54
4	11/11/54	11/11/54	11/11/54	11/11/54
5	11/11/54	11/11/54	11/11/54	11/11/54
6	11/11/54	11/11/54	11/11/54	11/11/54

REVISED TO CURRENT  
 1ST PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

NOTE  
 1 ALL PIPING THIS ISO  
 IS CLASS 2

2 PSI 03-05  
 ISI 612-005

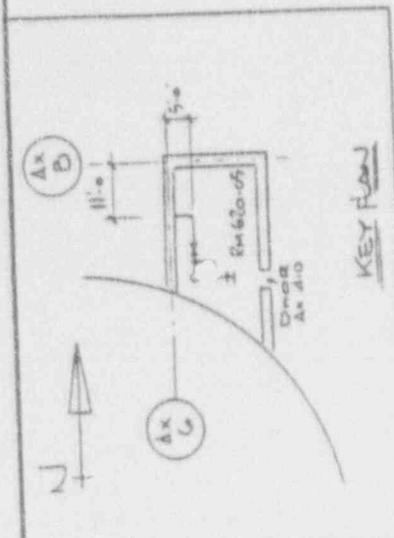
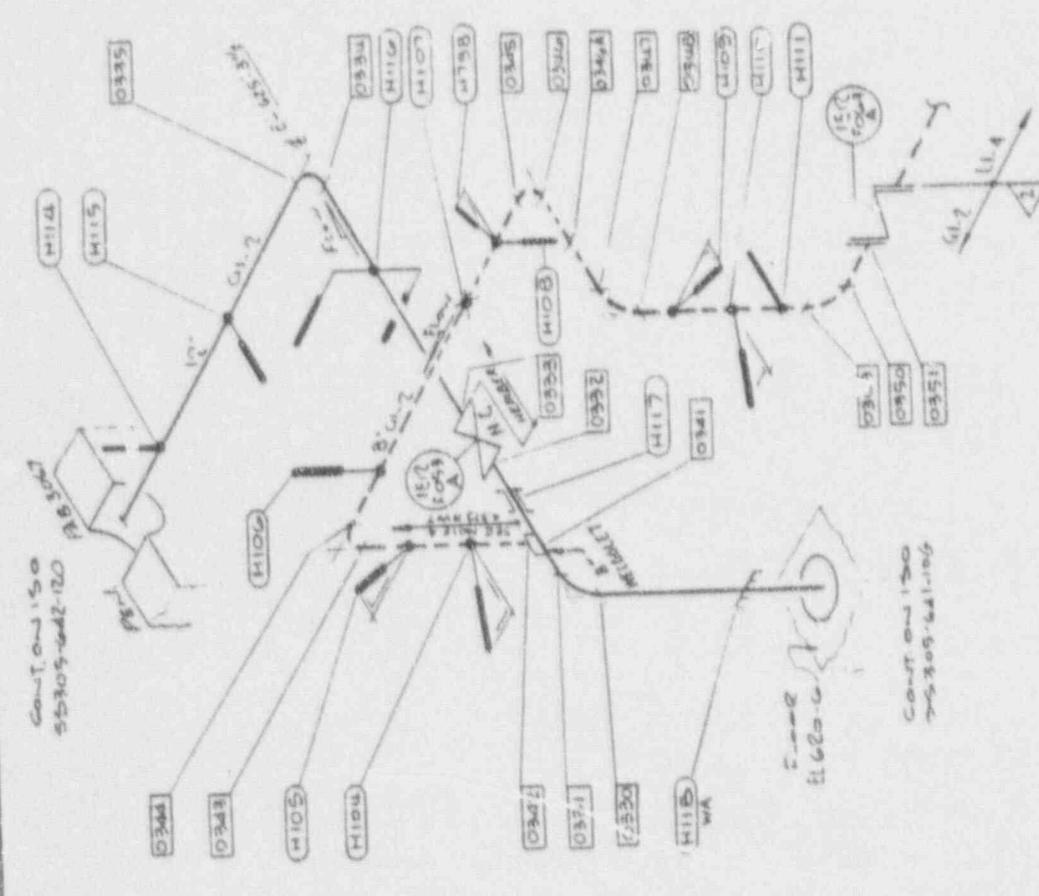
3. REPIPER :  
 FROM IE12-F053A TO  
 PEN PAB-3067

4. SUPPORTS AND WELDS ON  
 PIPING LESS THAN .375" THICK  
 DO NOT REQUIRE INSPECTION  
 INSPECTION (CODE CASE H4008)

REF DWG.  
 7-204-614

INTERPRET DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part Number	Sheet 1
ISI PIPING ISO SYS 612	
RMR LOOP A	
DATE	APPROVAL
1968-11	JR
1969-11	MB
1979	
PROJECT	55-305-642-119
DATE	1979



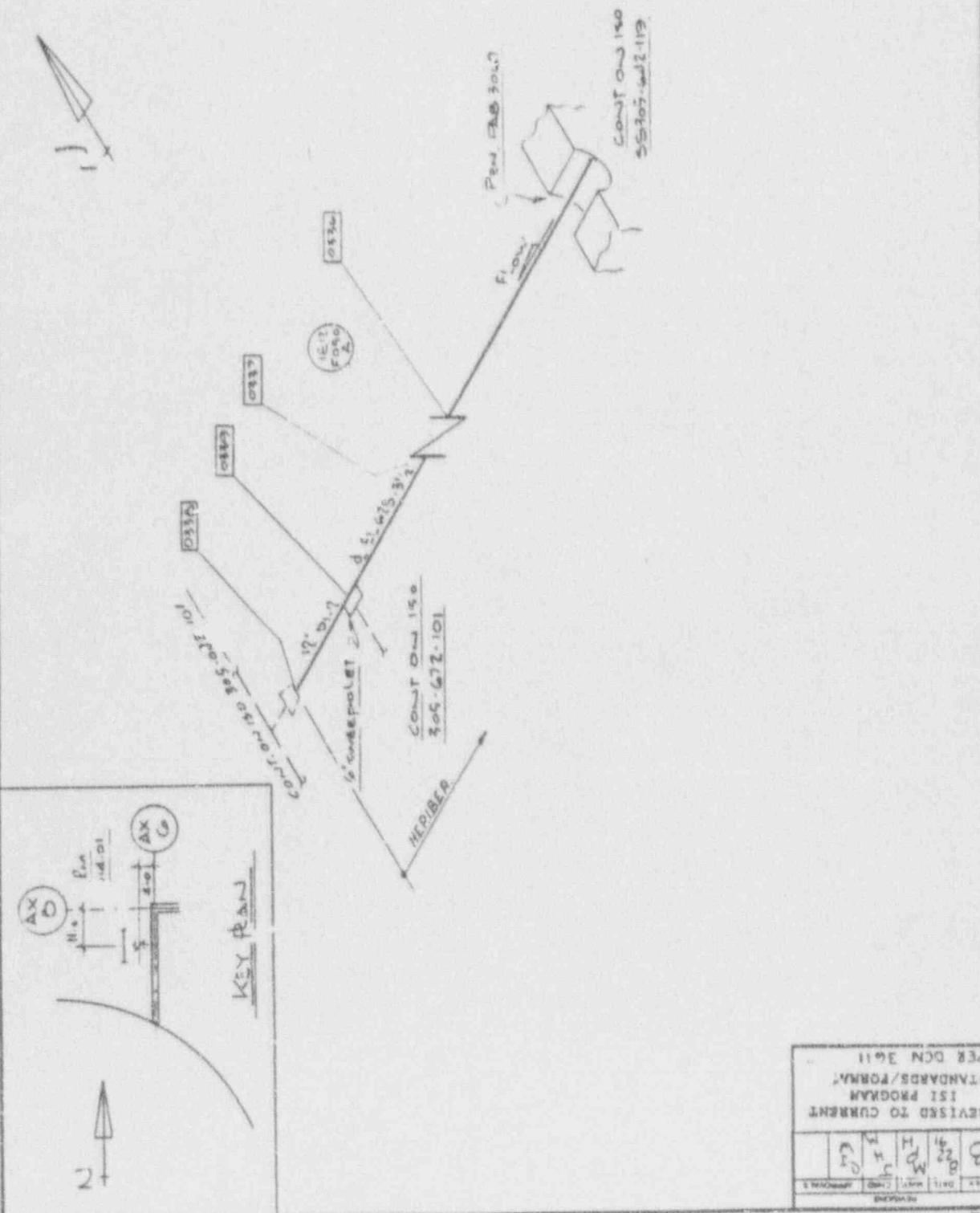
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3542
NO. DATE NAME COMMENTS
D 19 91 M H M 2

NOTE  
 ALL PIPING ON THIS  
 150 LB CLASS 2  
 7 PSI 03-05  
 ISI 612-005

REF DWG  
 D-301-674

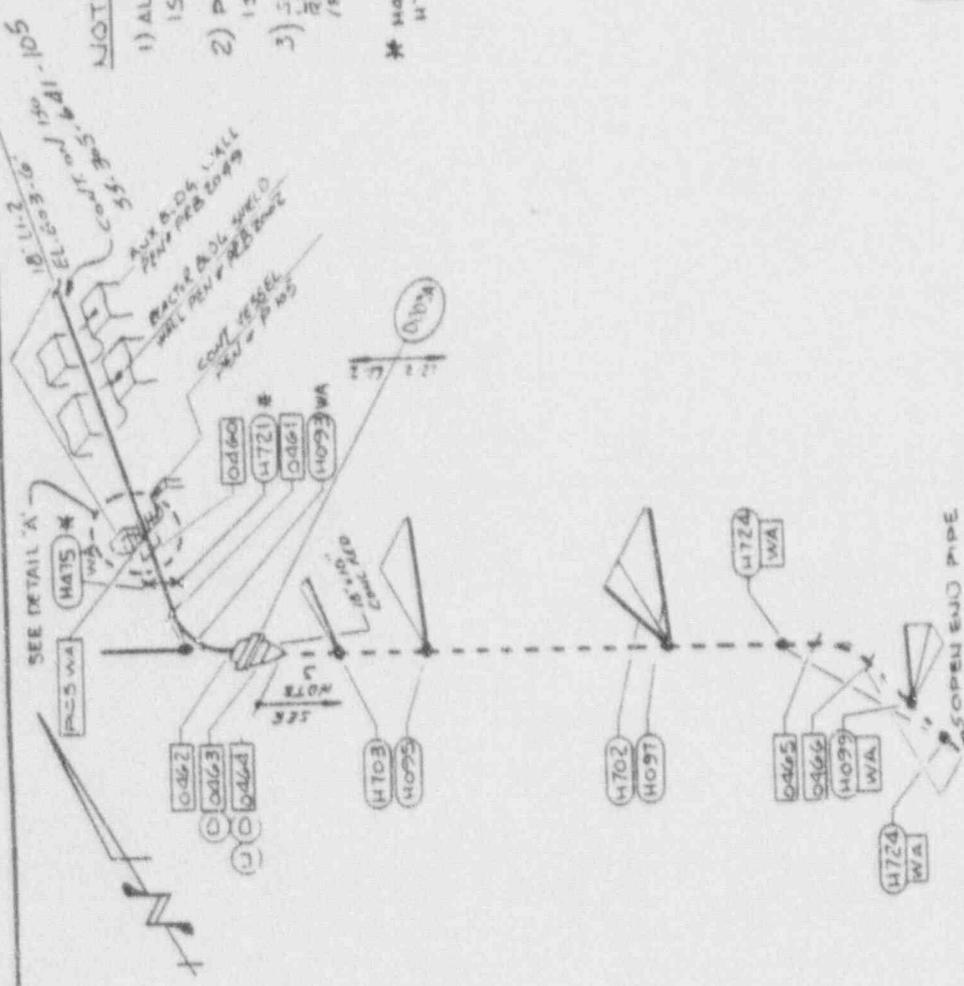
NOTES: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Plant # 51 UNIT 1
DATE	150 5/25 E12
DESCRIPTION	K/R LOOP N.E. SECTION
BY	BAKIL, A. V. BLOC. EL. 520-6
CHECKED	C. J. [Signature]
APPROVED	[Signature]
DATE	5/25/74
SCALE	AS SHOWN
PROJECT NUMBER	51-305-642-120
REV	1



REV	DATE	BY	CHKD	APP'D
1	5/25/74	C. J.	[Signature]	[Signature]

REVISIT TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611



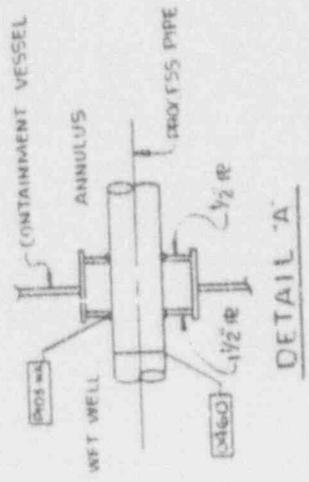
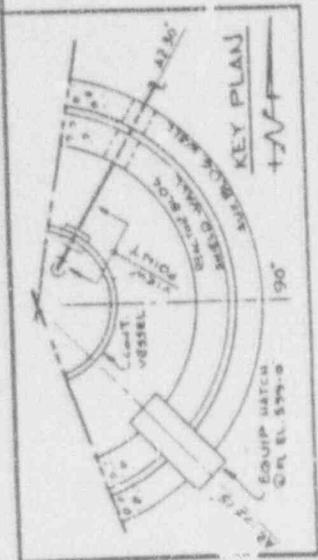
**NOTES:**

- 1) ALL PIPING ON THIS IS 15 CLASS "2"
  - 2) PSI 03-04  
151-E1Z-004
  - 3) SUPPORTS & WELDS ON DRIVING LESS THAN 1/16" THE DRUMIT REQUIRE INSERVICE INSPECTION (REF. CODE CASE 806)
- \* HATS SUPPORT GUIDE TUP  
HT1 SUPPORT GUIDE BTM.

REF. DWG  
3-30A-647

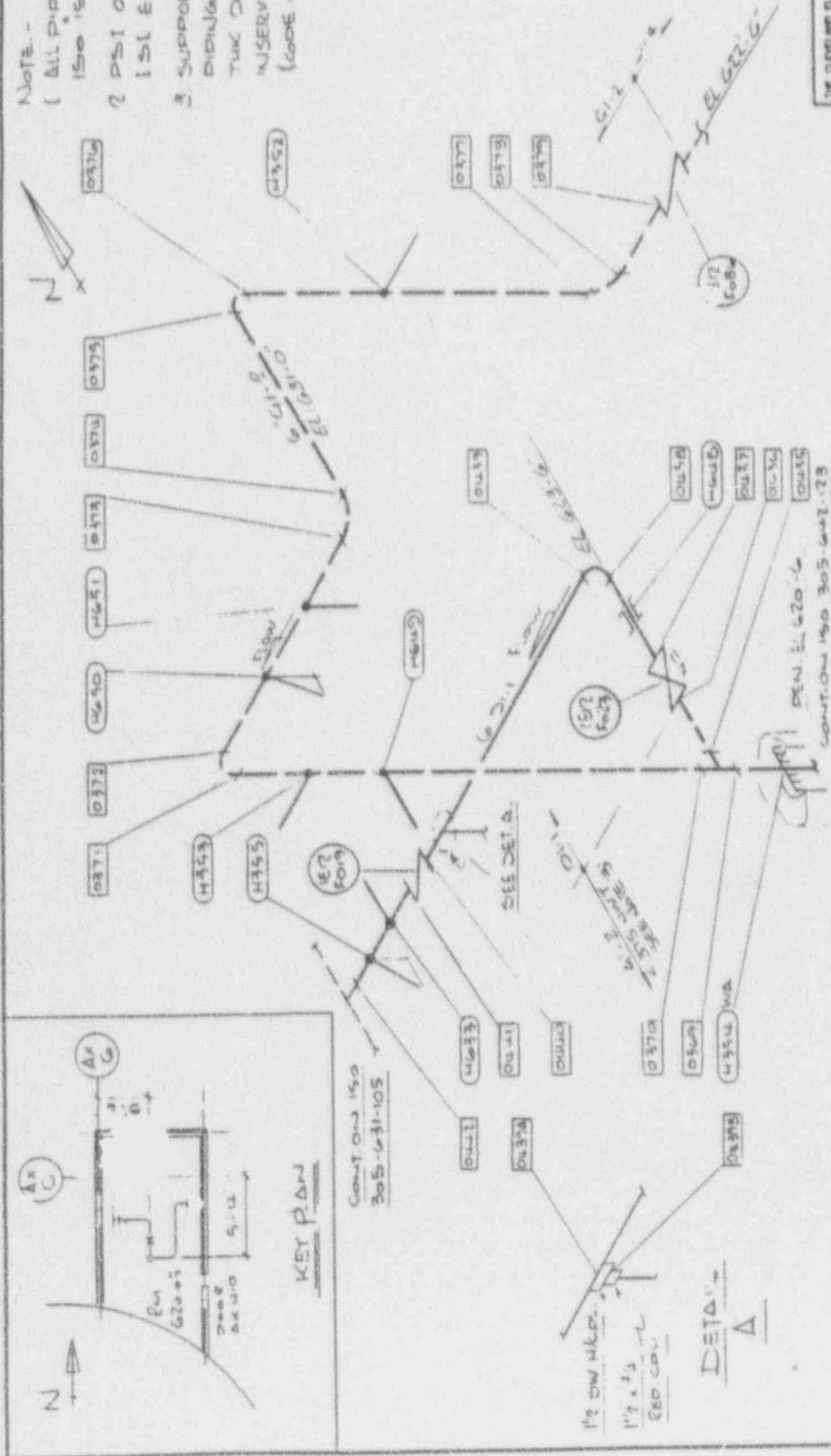
INSTRUMENTS DRAWING IS FOR THE PROGRAM USE (WELT AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	121-200-50E-55
PIPE NO.	575-E1Z
REACTOR BLDG. NO.	EL. 503-0
DATE	1/11/41
BY	W.A.
CHECKED	W.A.
APPROVED	W.A.
SCALE	AS SHOWN
REV.	1
DATE	1/11/41
BY	W.A.
CHECKED	W.A.
APPROVED	W.A.
SCALE	AS SHOWN



REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORMAT	PER DCN 5542
DATE	BY	CHECKED	APPROVED
1/11/41	W.A.	W.A.	W.A.

NOTE -  
 1 ALL PIPING ON THIS  
 150 LB CLASS 1:1  
 2 PSI 03-06  
 151 E12-006  
 3 SUPPORT WELDS ON  
 PIPING LESS THAN 375  
 TUNK DO NOT REQUIRE  
 INSERVICE INSPECTION  
 (CODE CASE N 408).



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PARTY MEMBER Patent Plans

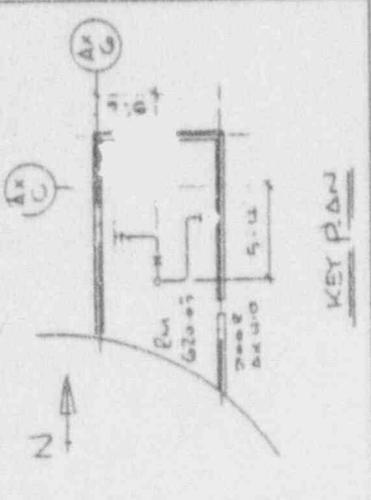
151 PIPING 150 LBS E12  
 RESIDUAL HEAT REMOVAL  
 LOOP - A - Ave. 0.06 E.L. 20-6

DATE	BY	CHK	APP
11/11/69	11/16/69	NIA	NIA
11/17/69	11/17/69	NIA	NIA

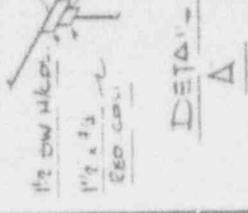
54305-542-122  
 151

REF. DWG.  
 D-304-699

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

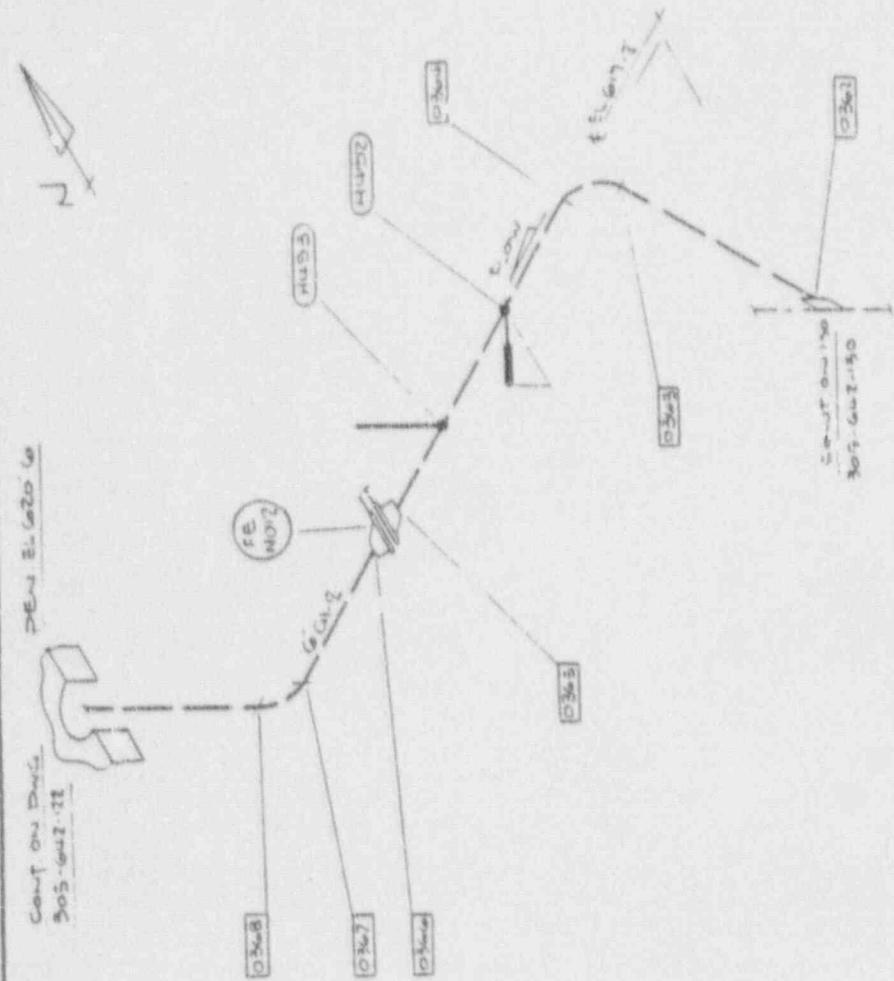
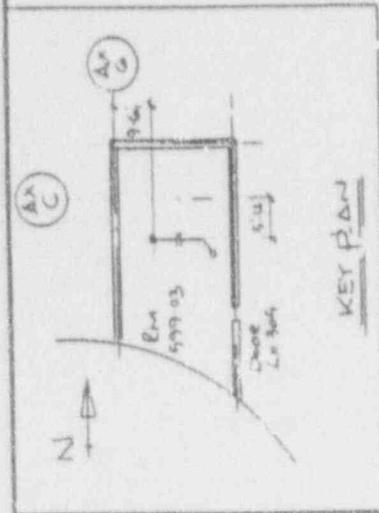


Count on 150  
 305-11-105



REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/TORNAE  
 PER DLN 3542

NO.	DATE	BY	CHK	APP
1	11/11/69	11/16/69	NIA	NIA
2	11/17/69	11/17/69	NIA	NIA



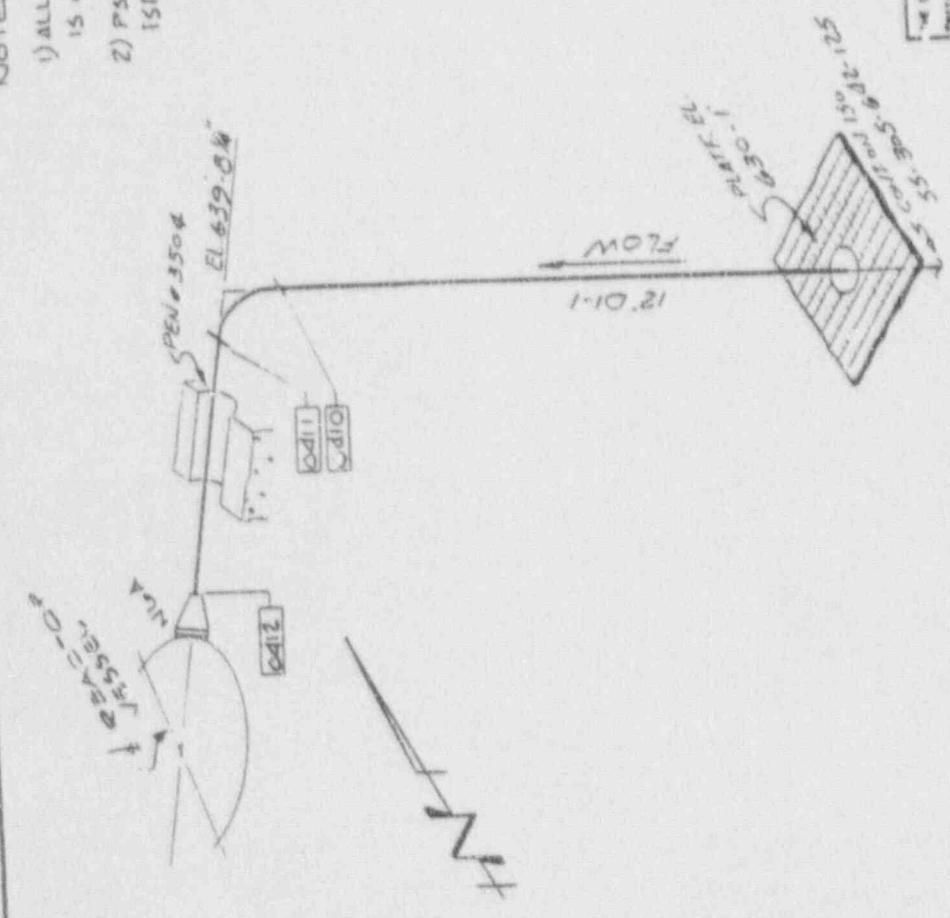
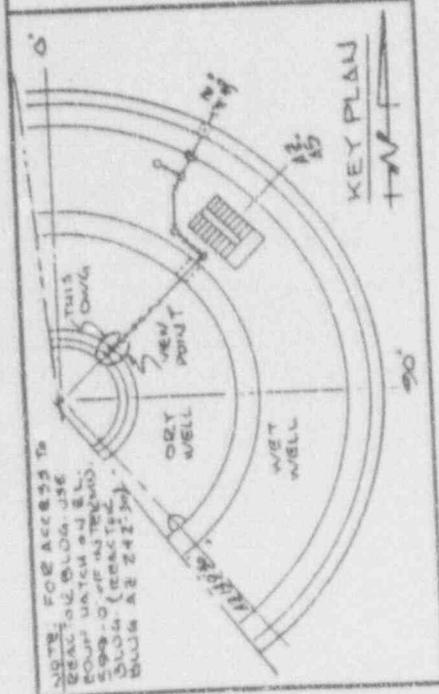
Note -  
 1 All piping on this  
 150 is class 2  
 2 PSI 03-06  
 151 E12-006  
 3 All piping on  
 this 150 is less  
 than .375" wall  
 weight & schedule  
 on this schedule  
 require inspection  
 (collective J403)

THE CLEVELAND ELECTRIC TELEPHONE COMPANY	
PERRY MACHINE POWER PLANT	
151 PIPING 150 575 E12	
RHR LOOP "A"	
AUXILIARY 3150 E1200	
DATE	55 305-542-123
BY	
CHECKED	
APPROVED	
SCALE	
PROJECT	
NO.	

NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISIONS	NO.	DATE	BY	APPROVED
	1	11/1/55	H	
	2	11/1/55	H	
	3	11/1/55	H	
	4	11/1/55	H	
	5	11/1/55	H	
	6	11/1/55	H	
	7	11/1/55	H	
	8	11/1/55	H	
	9	11/1/55	H	
	10	11/1/55	H	
	11	11/1/55	H	
	12	11/1/55	H	
	13	11/1/55	H	
	14	11/1/55	H	
	15	11/1/55	H	
	16	11/1/55	H	
	17	11/1/55	H	
	18	11/1/55	H	
	19	11/1/55	H	
	20	11/1/55	H	

NOTES:  
 1) ALL PIPING ON THIS 150  
 IS CLASS 1  
 2) PSI 03-07  
 151-E12-007



THE LEVELING ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	150
DATE	5/11/81
151 PIPING 150	SYS: E12
BLDG. LOOP A	
REACTOR BLDG. EL. 630-1	
DESIGNED BY	WHR
CHECKED BY	WHR
DATE	11-11-81
SCALE	1/4" = 1'-0"
PROJECT NO.	55-305-642-124
REV.	0

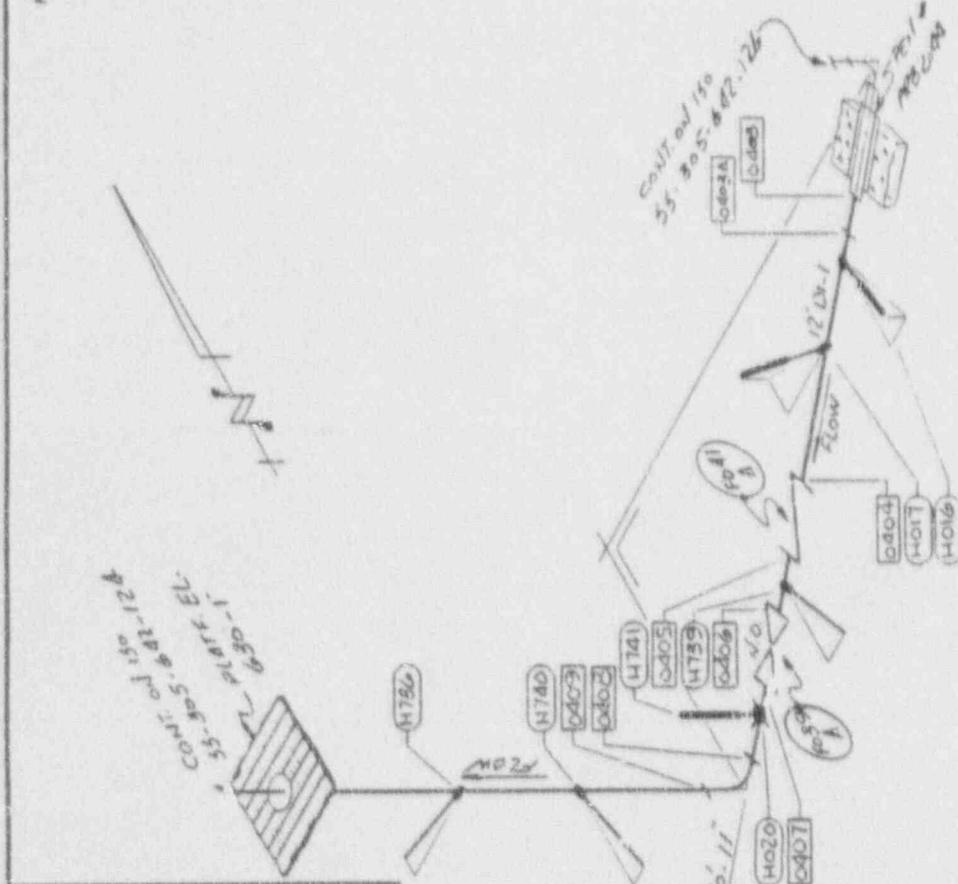
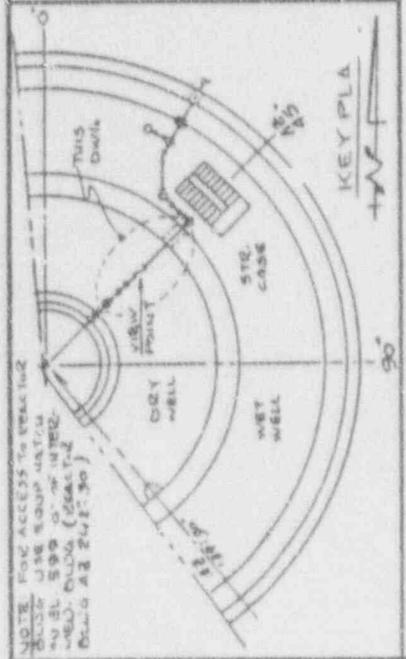
SEE DMB  
 D-704-649

NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REV	DATE	BY	CHKD	APPV
0	8/22/81	WHR	WHR	WHR
1	11/11/81	WHR	WHR	WHR
2	11/11/81	WHR	WHR	WHR
3	11/11/81	WHR	WHR	WHR

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611

NOTE: FOR ACCESS TO REACTOR  
 BUSES USE EQUIP MATHG  
 TO EL. 599.0' AT REAR  
 REAR DOOR (ELEVATION  
 DATA AS SHOWN)



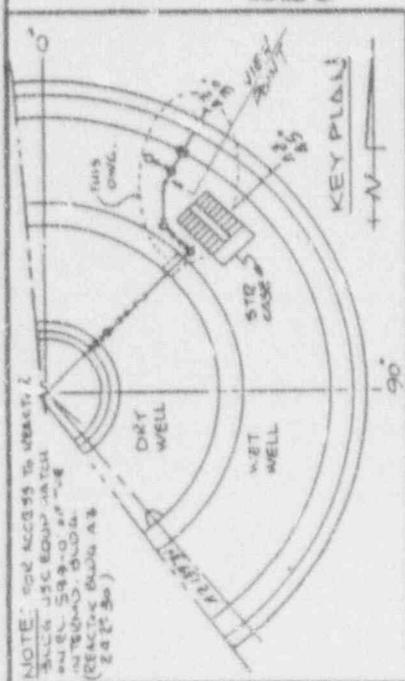
NOTES:  
 1) ALL PIPING ON THIS ISO  
 IS CLASS 1  
 2) PSI 03-07  
 151-E1Z-007

SEE DWG.  
 0-304-649

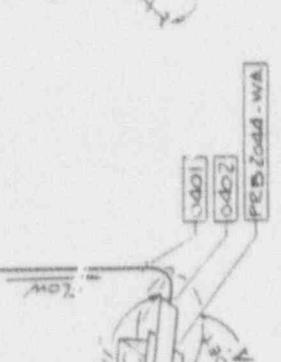
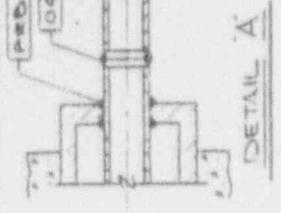
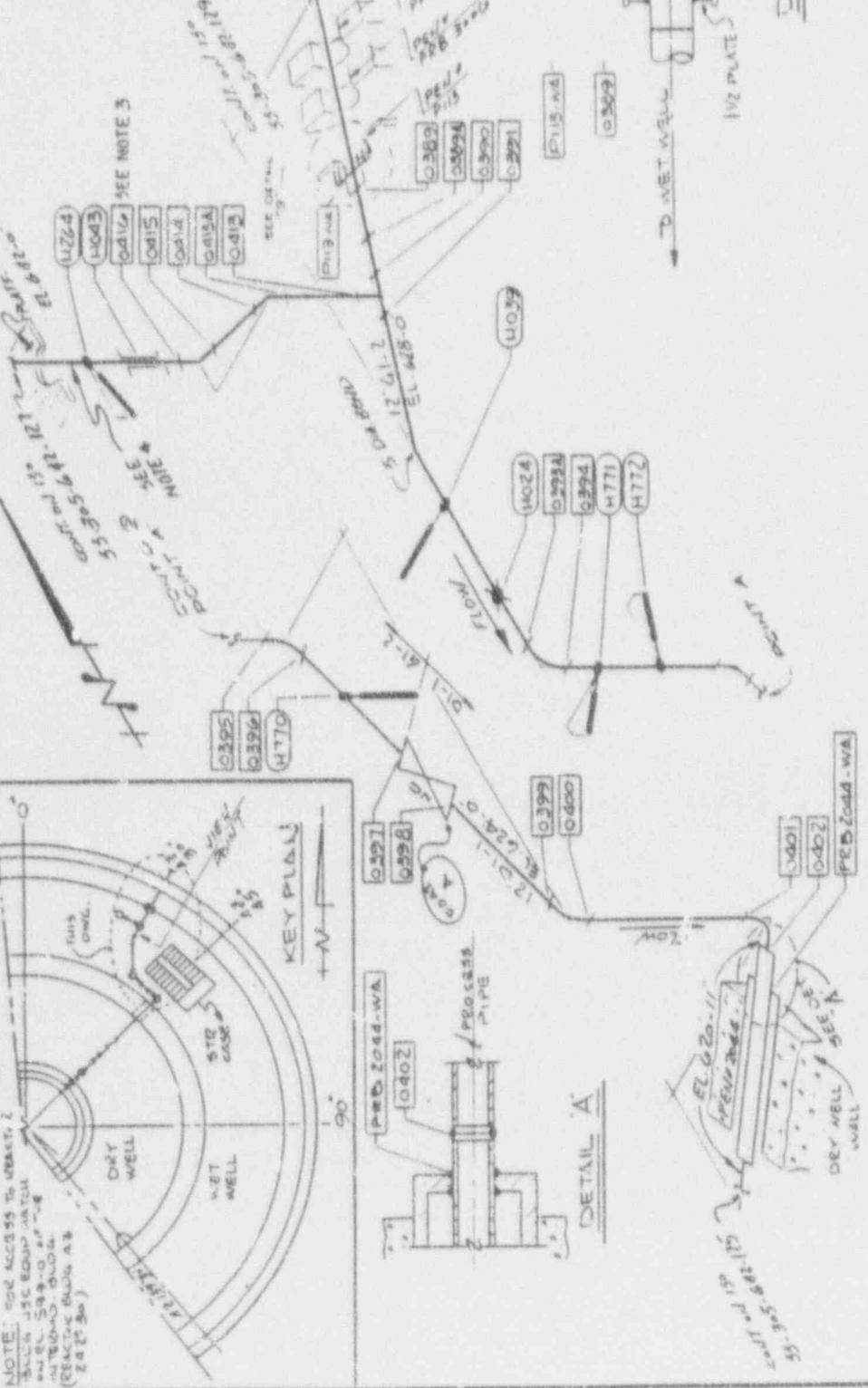
NOTE: THIS DRAWING IS FOR  
 TEST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	151-E1Z-007
DATE	11/18/54
BY	W.A. HARRIS
CHECKED	J. H. HARRIS
APPROVED	W.A. HARRIS
SCALE	AS SHOWN
PROJECT	151-E1Z-007
REVISED TO CURRENT	55-305-642-125
STANDARDS/FORMAT	PER DCM 3411

NOTE: FOR ACCESS TO AREA 2  
SEE I-3C BOND WATER  
PUMP 589-00-17-8  
IN TRENCH BLDG 6  
(REACTIVE BLDG A-3  
2025-30)



- NOTES:**
- 1) ALL PIPING ON THIS ISO IS CLASS 1/2
  - 2) PSI 03-07 [51-E12-007
  - 3) WELD PREP COUNTERBORE TO SUIT 3/8" Ø
  - 4) SPOOL FABRICATED 5/8" Ø DI-1 PER PULLMAN ISO 1E12-28 AND SPOOL SHEET 272 RB NOT 61-2



REV	DATE	BY	CHKD	APPROV
D				
B				
M				
I				
E				

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

REF ID No.  
D-304-649

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Project Number: **PSI 03-07** UNIT 1

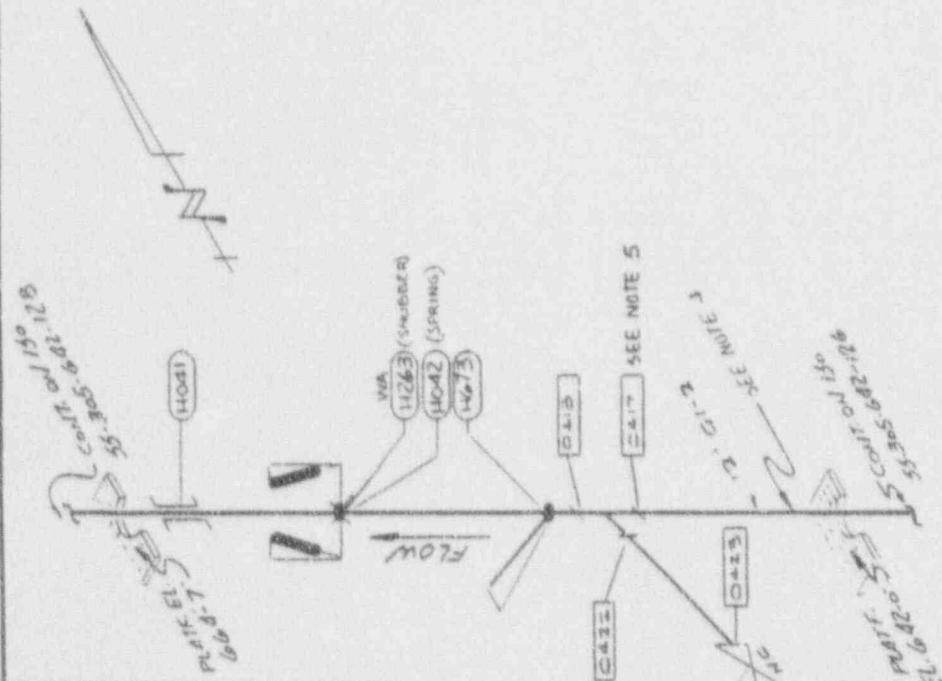
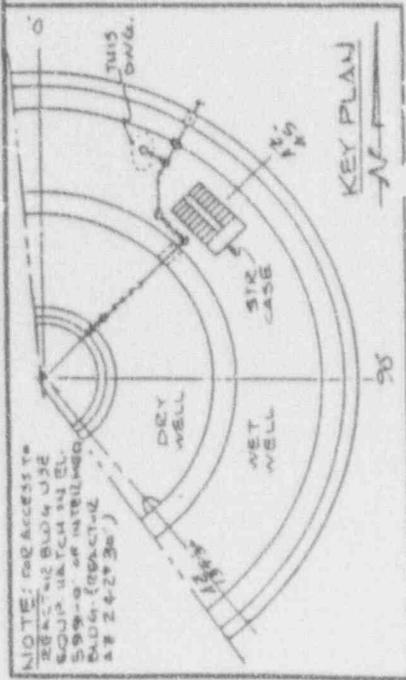
ISO PIPING ISO SYS: E12  
BULK LOOP A  
REACTIVE BLDG. EL. 620-6

DATE	BY	CHKD	APPROV
11/14/00	DL	DL	DL
11/14/00	DL	DL	DL
11/14/00	DL	DL	DL

DATE: 11/14/00  
DRAWN: DL  
CHECKED: DL  
APPROVED: DL

SCALE: AS SHOWN  
SHEET: 55-305-647-126 OF 126

NOTE: FOR ACCESS TO  
 REAR OF BLDG USE  
 EQUIP. MATCH IN EL.  
 599-0' OR INTERLUMEN  
 BLDG. (REACTOR  
 A & Z 2-24 30')



NOTES:

- 1) ALL PIPING ON THIS 160 IS CLASS 2
- 2) PSI 03-07  
151-E12-007
- 3) EXEMPT PER CC-408.
- 4) SPOOL FABRICATED AS 2-100 IN LIEU OF 5CH 40 PEF SPEC 61-2 SEE PULLMAN I-40 E12-28 AND 5P90L DETAIL 272.RS.
- 5) WELD PREP COUNTERBORED TO MATCH 5CH 40 TEE.

REF ENG.  
 D-204-650

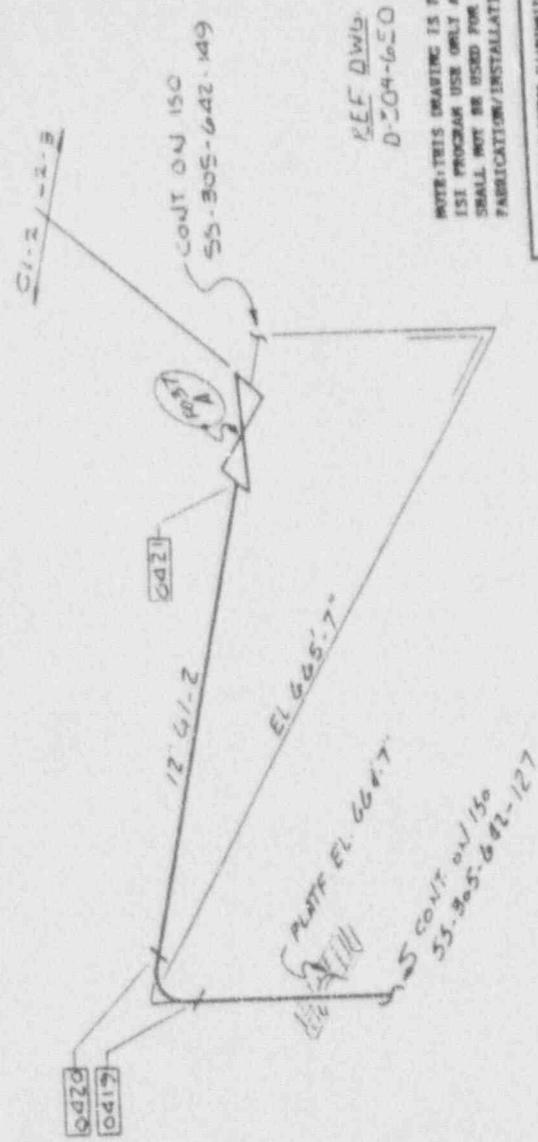
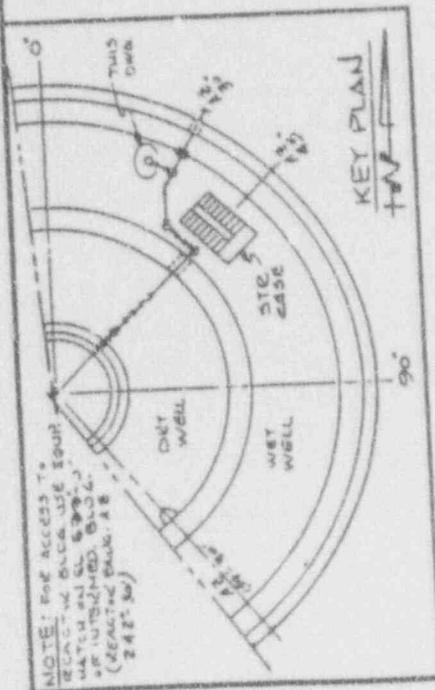
NOTICE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-642-177
DATE	11/11/77
BY	1/K
CHECKED	1/K
APP'D	1/K
REVISIONS	
NO.	DATE
1	11/11/77
2	11/11/77
3	11/11/77
4	11/11/77
5	11/11/77
6	11/11/77
7	11/11/77
8	11/11/77
9	11/11/77
10	11/11/77

REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORMAT	PER DCN 3542
D	B	H	M
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

NOTES:

- 1) ALL PIPING ON THIS ISO IS CLASS "2"
- 2) PSI 03-07 [51-E12-007



REF DWG D-304-650

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	51-11678
Sheet	5
151 PIPING ISO SYS: E12	
RMR LOOP A	
REACTOR BLDG. EL. 664.7	
DATE	1-1-11
BY	WJA
CHECKED	WJA
SCALE	AS SHOWN
ISSUED	55-305-642-126
REV	5
DATE	11/11/11

REV	DATE	BY	CHKD	APP'D
B	11/11/11	WJA	WJA	
2		WJA	WJA	
1		WJA	WJA	

REVISOR

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3611

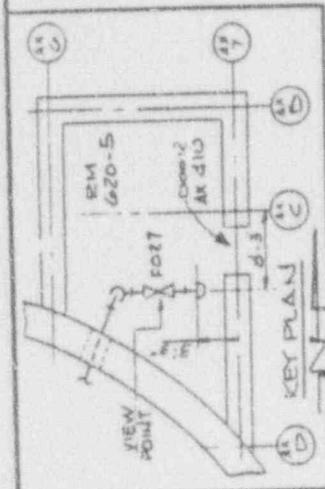
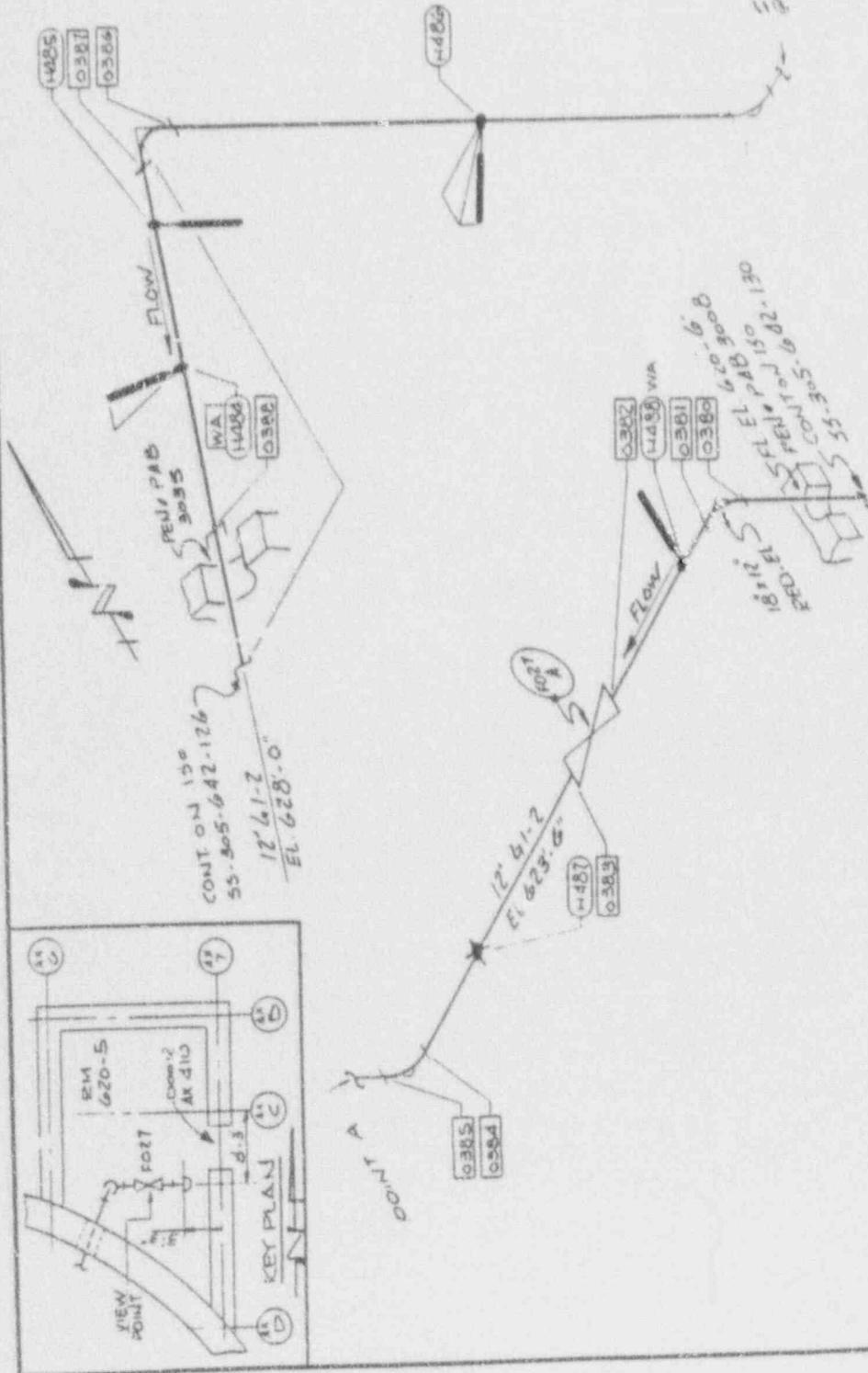
NOTES:

- 1) ALL PIPING ON THIS IS0 IS CLASS '2'
- 2) PSI 03-07 151-EI2-007

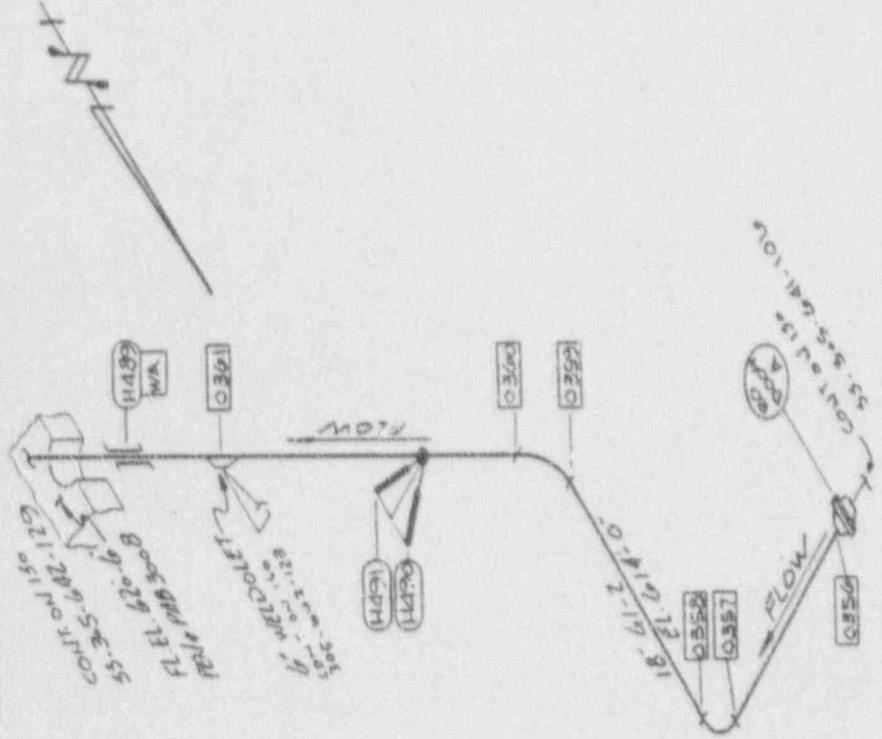
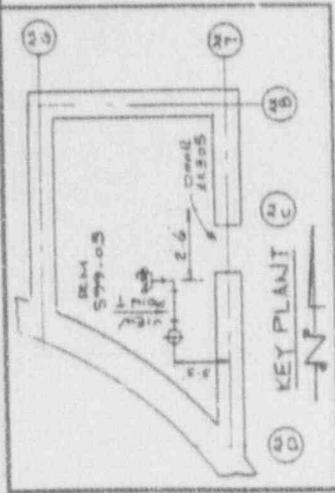
REF QMG  
D-304-699

NOTE: THIS DRAWING IS FOR ISI PROGRAM USER ONLY AND SHALL NOT BE USED FOR FABRICATING/INSTALLATION

THE LEVELING ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Sheet 1
PIPING IS0	SY3: EI2
RAISE	LOOP A
ALL BLDG FLOOR	EL 620-0
DATE	10/11/82
BY	WJA
CHECKED	WJA
SCALE	1/4" = 1'-0"
PROJECT	55-305-642-129
DATE	10/11/82



REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORMAT	PER DCN 3611
DATE	BY	CHKD	APPD
10/11/82	WJA	WJA	



- NOTES:
- 1) ALL PIPING ON THIS IS 15 CLASS 2
  - 2) PSI 03-07  
151-E1Z-00T

SEE DWG.  
D-304-643

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
NORTH NUCLEAR POWER PLANT		SHEET 1	
151 PIPING 150		545: E1Z	
RESIDUAL HEAT REMOVAL LOOP A			
AUX BLDG. F.L.E. 599-0		DRAWING APPROVALS	
DATE	BY	CHKD	APP'D
11/11/85	WJS	WJS	WJS
PROJECT NO. 55-305-642-130		SHEET NO. 1	

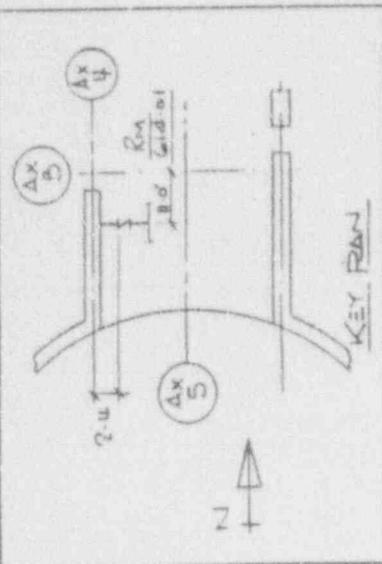
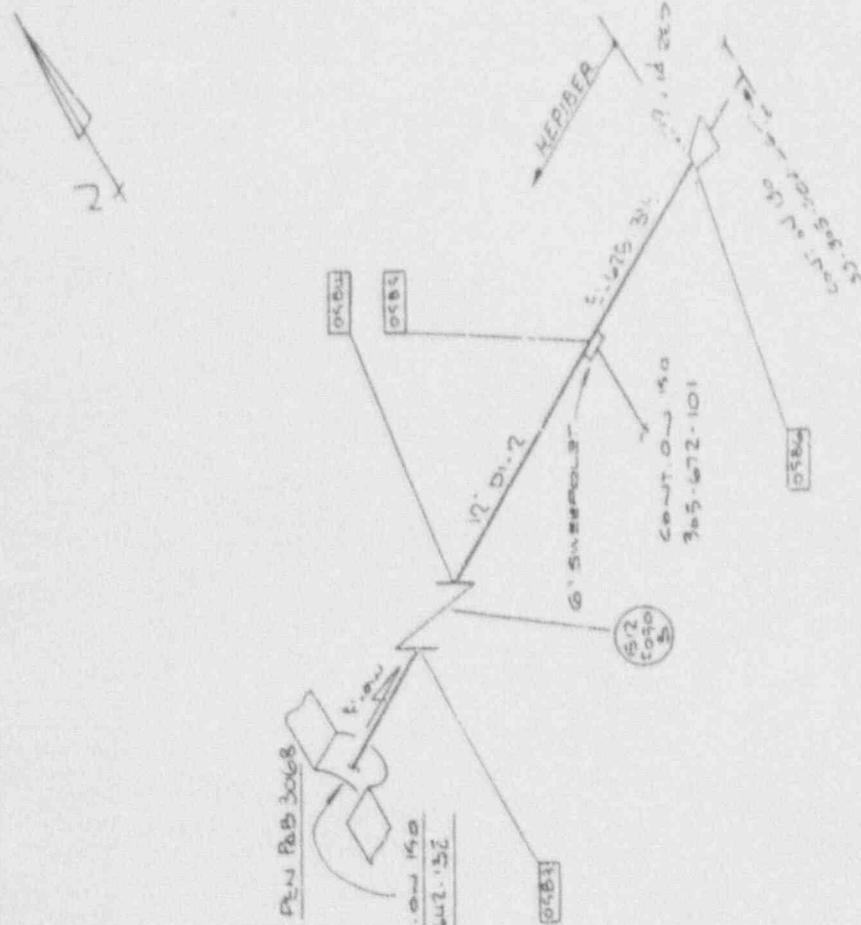
NO. OF SHEETS	DATE	BY	CHKD	APP'D	REVISION
1	11/11/85	WJS	WJS	WJS	REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3611

Note:  
 1 ALL PIPING ON THIS  
 IS 150 LB CLASS ?  
 ? PS-1 03-12  
 151 ERZ-012

SEE DWG.  
 D-204-494

INTERESTING DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATING/INSTALLATION

NO CLEVELAND ELECTRIC TOLERATING COMPANY	
Perry Nuclear Power Plant	
ISI PIPING 150 LBS ERZ	REV 1
2ND LOOP "B" & "COMMON"	
REV 1	REV 1
REV 2	REV 2
REV 3	REV 3
REV 4	REV 4
REV 5	REV 5
REV 6	REV 6
REV 7	REV 7
REV 8	REV 8
REV 9	REV 9
REV 10	REV 10
REV 11	REV 11
REV 12	REV 12
REV 13	REV 13
REV 14	REV 14
REV 15	REV 15
REV 16	REV 16
REV 17	REV 17
REV 18	REV 18
REV 19	REV 19
REV 20	REV 20
REV 21	REV 21
REV 22	REV 22
REV 23	REV 23
REV 24	REV 24
REV 25	REV 25
REV 26	REV 26
REV 27	REV 27
REV 28	REV 28
REV 29	REV 29
REV 30	REV 30
REV 31	REV 31
REV 32	REV 32
REV 33	REV 33
REV 34	REV 34
REV 35	REV 35
REV 36	REV 36
REV 37	REV 37
REV 38	REV 38
REV 39	REV 39
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REV 42	REV 42
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REV 68	REV 68
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REV 70	REV 70
REV 71	REV 71
REV 72	REV 72
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REV 74	REV 74
REV 75	REV 75
REV 76	REV 76
REV 77	REV 77
REV 78	REV 78
REV 79	REV 79
REV 80	REV 80
REV 81	REV 81
REV 82	REV 82
REV 83	REV 83
REV 84	REV 84
REV 85	REV 85
REV 86	REV 86
REV 87	REV 87
REV 88	REV 88
REV 89	REV 89
REV 90	REV 90
REV 91	REV 91
REV 92	REV 92
REV 93	REV 93
REV 94	REV 94
REV 95	REV 95
REV 96	REV 96
REV 97	REV 97
REV 98	REV 98
REV 99	REV 99
REV 100	REV 100



REV	DATE	BY	CHKD	DESCRIPTION
1	11/11/87	W	H	REVISED TO CURRENT STANDARDS/FORMAT
2				PER DCN 3611

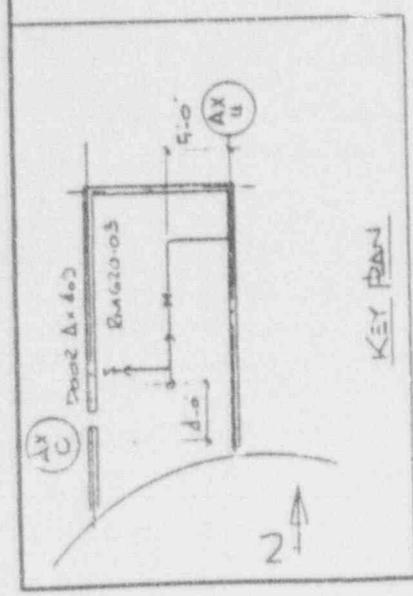
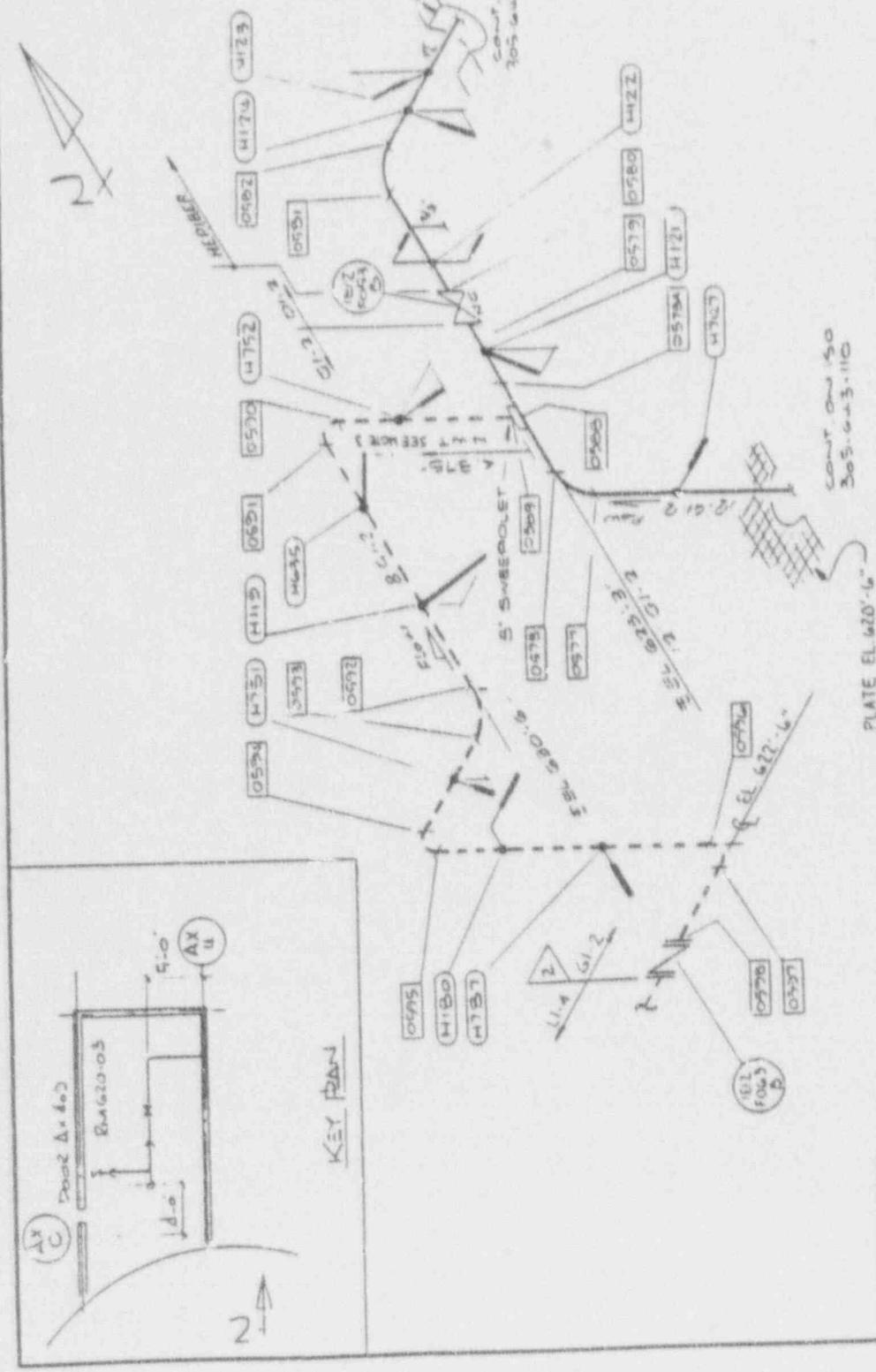
NOTE -  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2  
 2 P.S.I. 03-12  
 15.1 212-012

3 SUPPORTS AND WELDS ON  
 PIPING LESS THAN .375" THICK  
 DO NOT REQUIRE INSERVICE  
 INSPECTION  
 (CODE CASE MA08)

IF DNG.  
 D-309-699

NOTES: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
10001	10001
150 PIPING 150 IS CLASS 2	RESIDUAL HEAT REMOVAL
LOOP - 5" DIA. 8.10' EL. 620'-6"	
DATE	BY
12/11/77	J.H.



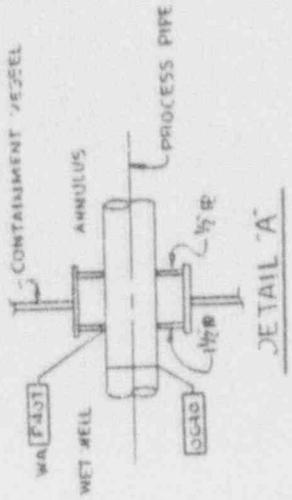
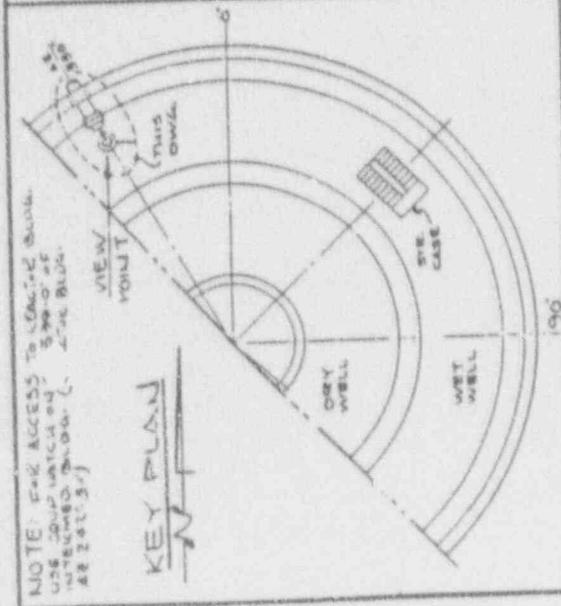
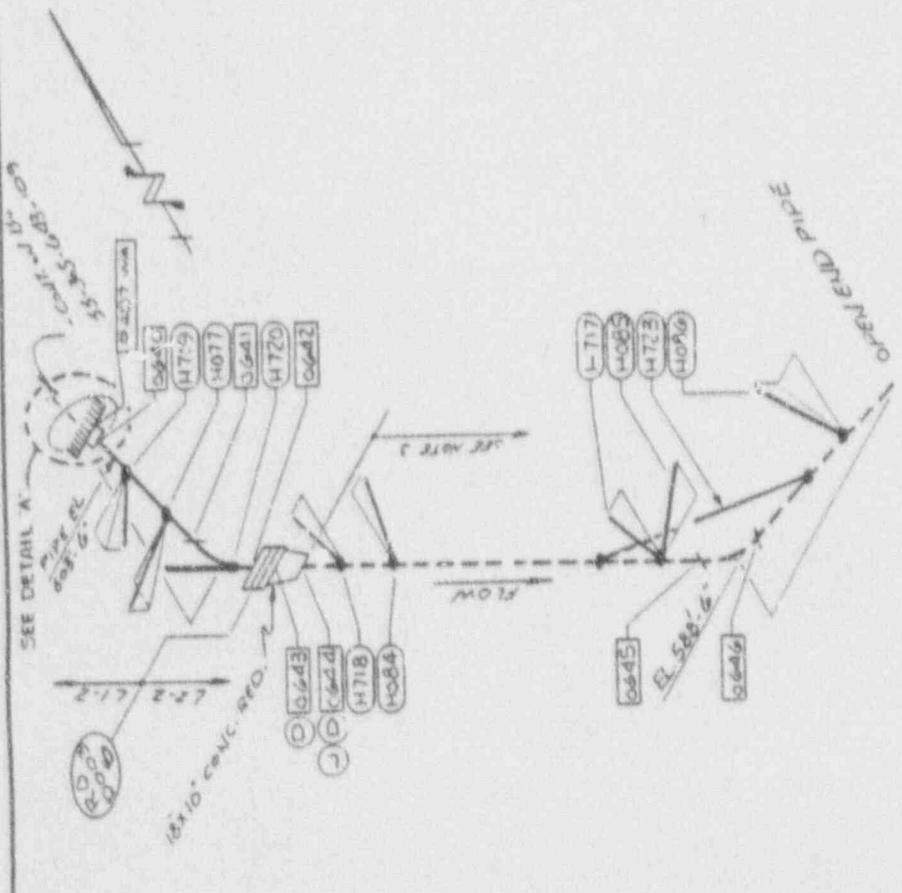
REVISION	BY	DATE	DESCRIPTION
1	W.C.	12/11/77	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542

Note -  
 1 ALL PIPING N TALLS  
 ISO CLASS 2  
 ? PSI 03-11  
 151 ER-011  
 3 SUP WELDS & WELDS ON  
 PIPING LESS THAN 375' TALL  
 DO NOT REQUIRE INSURANCE  
 INSPECTION (SEE CODE CASE  
 N-406)

REV DWG  
 D-304-646

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

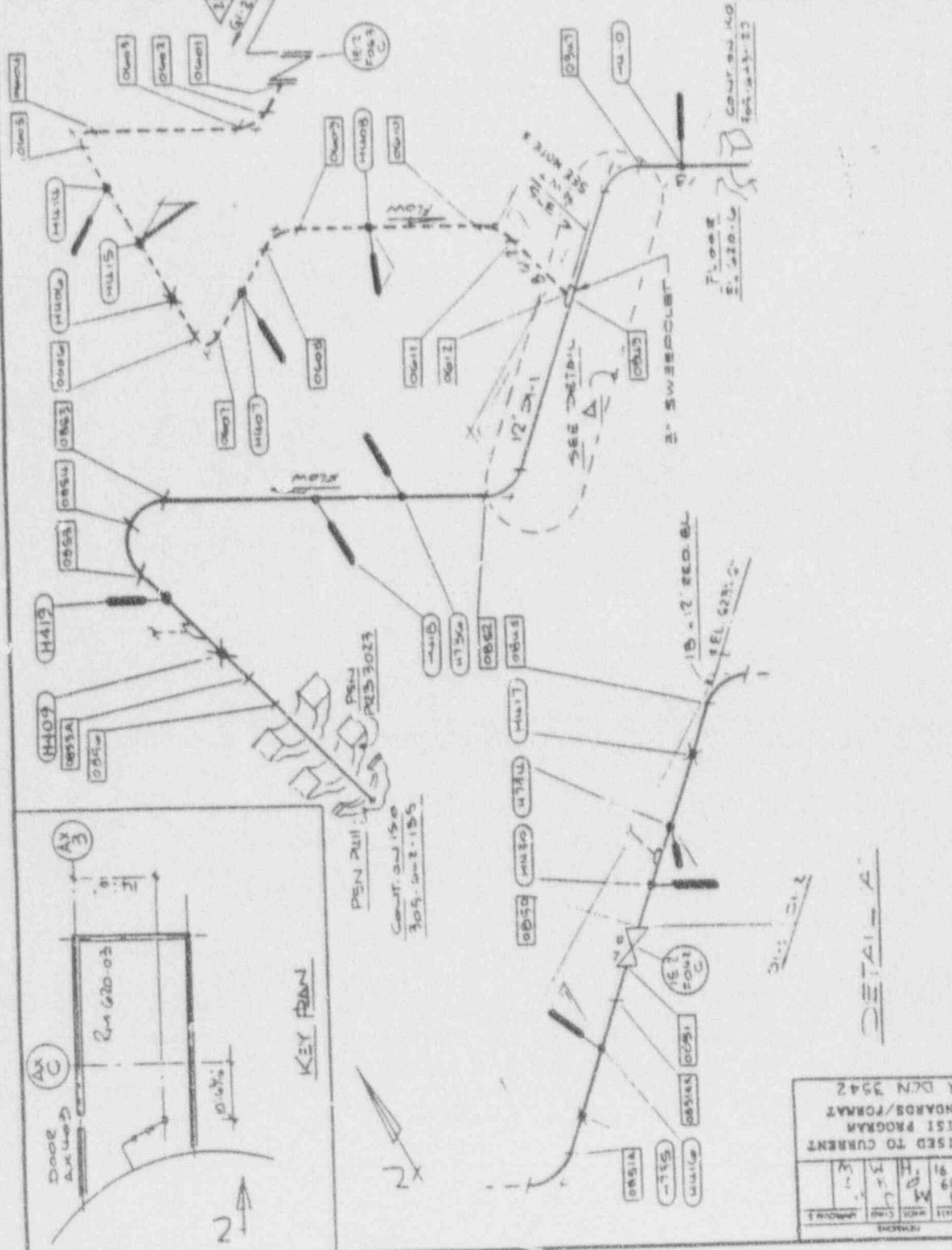
THE CLEVELAND ELECTRIC WELDING COMPANY	ISSUE NUMBER	1
PERY NUCLEAR POWER SYSTEMS, INC.	DATE	10/1/67
ISI PROGRAM	PROJECT	WINDY HILL
RHR LJOHNS	DESIGNER	WINDY HILL
REACTOR Bldg. Elev.	SCALE	N/A
NO. 100	NO. 100	N/A
NO. 100	NO. 100	N/A
NO. 100	NO. 100	N/A
NO. 100	NO. 100	N/A



NO. 100	NO. 100	NO. 100	NO. 100	NO. 100
DATE	NOV 21 1967	NO. 100	NO. 100	NO. 100
NO. 100	NO. 100	NO. 100	NO. 100	NO. 100
NO. 100	NO. 100	NO. 100	NO. 100	NO. 100
NO. 100	NO. 100	NO. 100	NO. 100	NO. 100

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 1342

NOTE -  
 1 ALL PIPING ON THIS 150 IS CLASS 1 & 2  
 2 PSI 03-17  
 151 ER-017  
 3. SUPPORTS AND WELDS ON PIPING LESS THAN .375" THICK DO NOT REQUIRE INSERVICE INSPECTION. (CODE CASE NRC)



SEE DNG  
 3-304-614  
 NOTES: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING IS THE BILL OF MATERIALS FOR THIS PROJECT

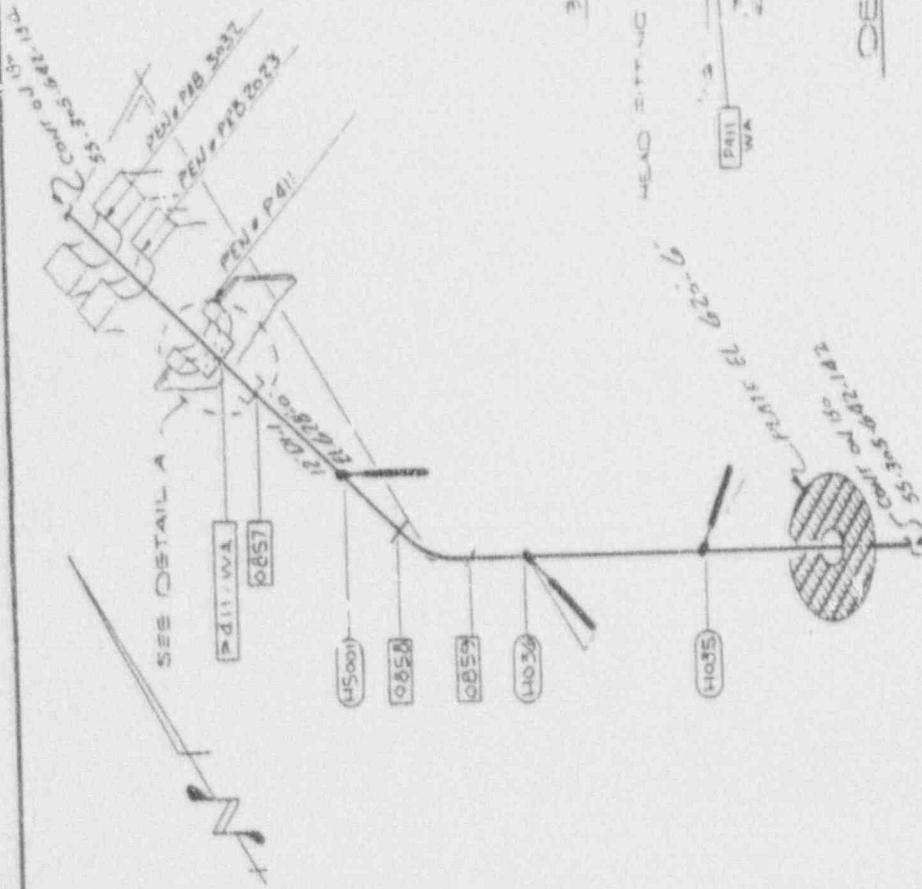
ITEM NO.	DESCRIPTION	QTY	UNIT
1	PIPE		
2	FLANGE		
3	WELDING		
4	VALVE		
5	TEE		
6	ELBOW		
7	END FLANGE		
8	SHORT SECTION		
9	WELDED END		
10	FLANGE		
11	WELDING		
12	VALVE		
13	TEE		
14	ELBOW		
15	END FLANGE		
16	SHORT SECTION		
17	WELDED END		
18	FLANGE		
19	WELDING		
20	VALVE		
21	TEE		
22	ELBOW		
23	END FLANGE		
24	SHORT SECTION		
25	WELDED END		
26	FLANGE		
27	WELDING		
28	VALVE		
29	TEE		
30	ELBOW		
31	END FLANGE		
32	SHORT SECTION		
33	WELDED END		
34	FLANGE		
35	WELDING		
36	VALVE		
37	TEE		
38	ELBOW		
39	END FLANGE		
40	SHORT SECTION		
41	WELDED END		
42	FLANGE		
43	WELDING		
44	VALVE		
45	TEE		
46	ELBOW		
47	END FLANGE		
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51	WELDING		
52	VALVE		
53	TEE		
54	ELBOW		
55	END FLANGE		
56	SHORT SECTION		
57	WELDED END		
58	FLANGE		
59	WELDING		
60	VALVE		
61	TEE		
62	ELBOW		
63	END FLANGE		
64	SHORT SECTION		
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68	VALVE		
69	TEE		
70	ELBOW		
71	END FLANGE		
72	SHORT SECTION		
73	WELDED END		
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77	TEE		
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83	WELDING		
84	VALVE		
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100	VALVE		
101	TEE		
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104	SHORT SECTION		
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112	SHORT SECTION		
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116	VALVE		
117	TEE		
118	ELBOW		
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123	WELDING		
124	VALVE		
125	TEE		
126	ELBOW		
127	END FLANGE		
128	SHORT SECTION		
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152	SHORT SECTION		
153	WELDED END		
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155	WELDING		
156	VALVE		
157	TEE		
158	ELBOW		
159	END FLANGE		
160	SHORT SECTION		
161	WELDED END		
162	FLANGE		
163	WELDING		
164	VALVE		
165	TEE		
166	ELBOW		
167	END FLANGE		
168	SHORT SECTION		
169	WELDED END		
170	FLANGE		
171	WELDING		
172	VALVE		
173	TEE		
174	ELBOW		
175	END FLANGE		
176	SHORT SECTION		
177	WELDED END		
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185	WELDED END		
186	FLANGE		
187	WELDING		
188	VALVE		
189	TEE		
190	ELBOW		
191	END FLANGE		
192	SHORT SECTION		
193	WELDED END		
194	FLANGE		
195	WELDING		
196	VALVE		
197	TEE		
198	ELBOW		
199	END FLANGE		
200	SHORT SECTION		

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/19/91	H. M.	REVISED TO CURRENT STANDARDS/FORMAT
2	01/11/92	H. M.	PER DCN 3542

DETAIL A

- NOTES:
- 1) ALL PIPING ON THIS IS 150 LB CLASS I
  - 2) PSI 03-17  
151-E12-017

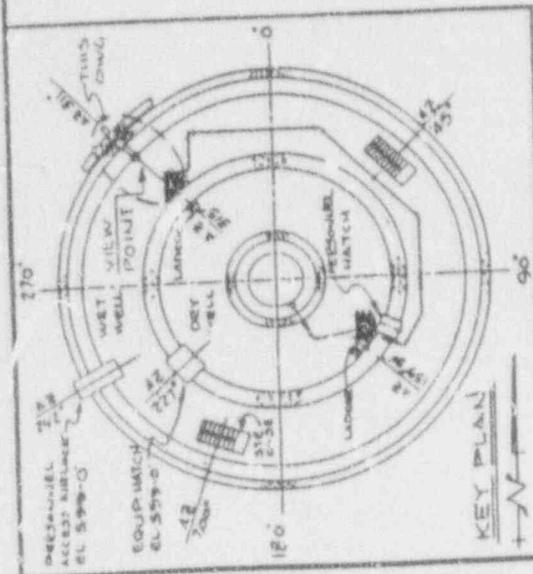


DETAIL A

THE CLEVELAND ELECTRIC ENGINEERING COMPANY	PROJECT NUMBER	PROJECT NAME	SHEET NO.	TOTAL SHEETS
	151-P-17	REACTOR BALON	2	2

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REF: DWG  
D-304 643



REV.	DATE	BY	CHKD.
1	11/14/73	DW	DM
2	12/22/73	DM	DM
3	1/18/74	DM	DM
4	6/6/74	DM	DM
5	11/14/74	DM	DM
6	5/5/75	DM	DM

REVISIO TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 2611

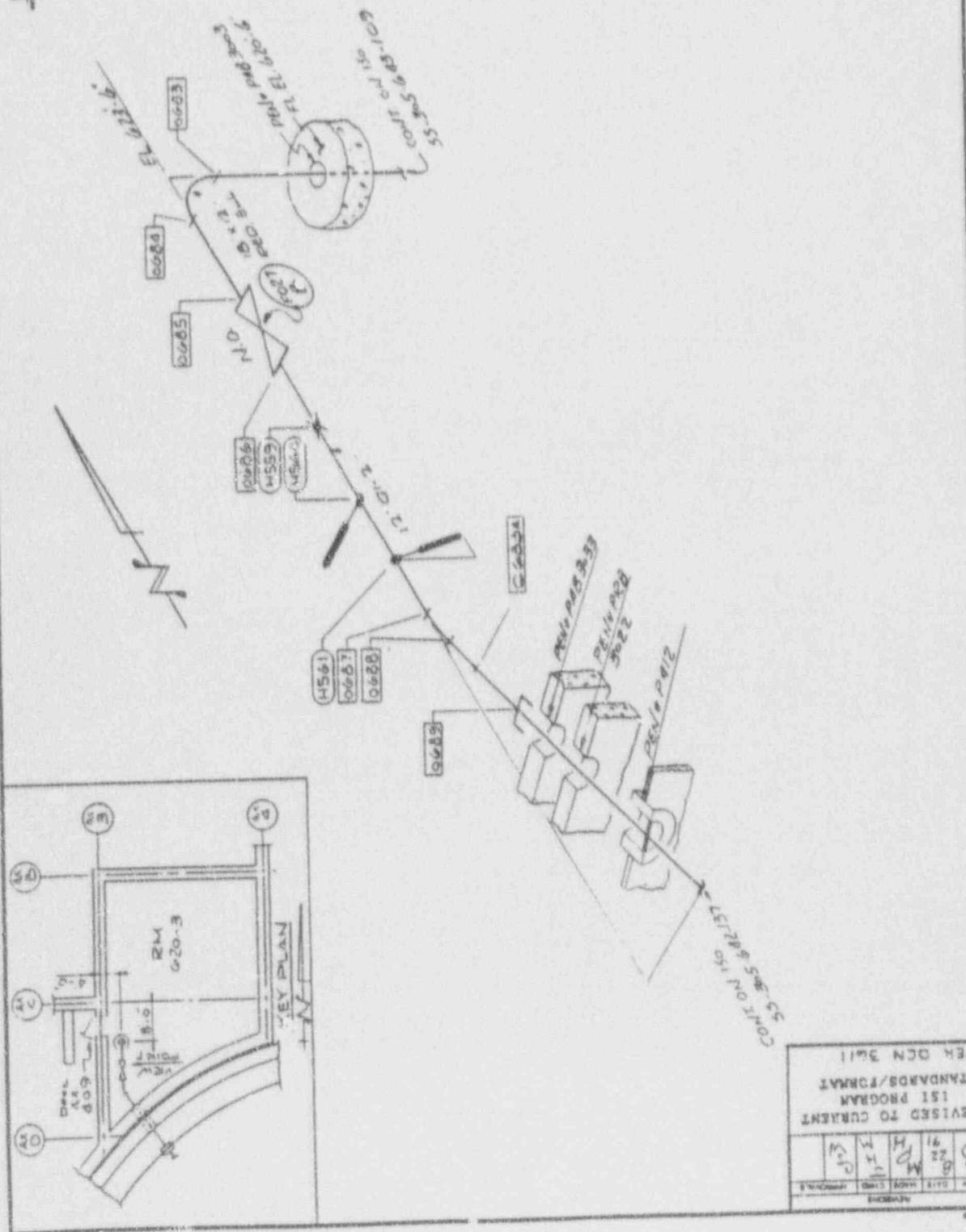
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS '2'
- 2) PSI 03-13 151-E12-013

REF DWG  
D-304-644

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
PARTICIPATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	5105 E12
Sheet	1
151 PIPING 150 5105 E12	
RMR LOOP B	
ALUX BLDG FLEL 620-G	
DATE	11/11/65
BY	WJA
CHECKED	WJA
SCALE	AS SHOWN
PROJECT	53-305-641-136



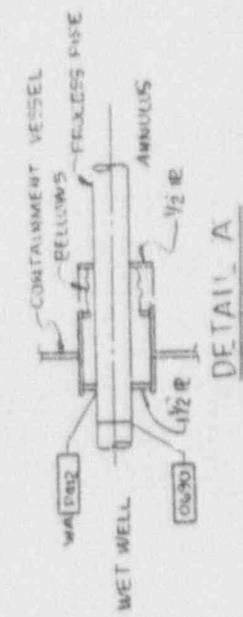
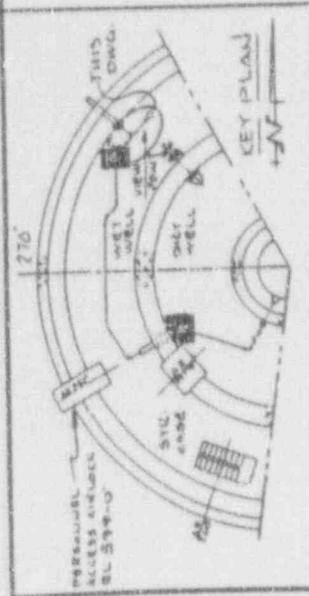
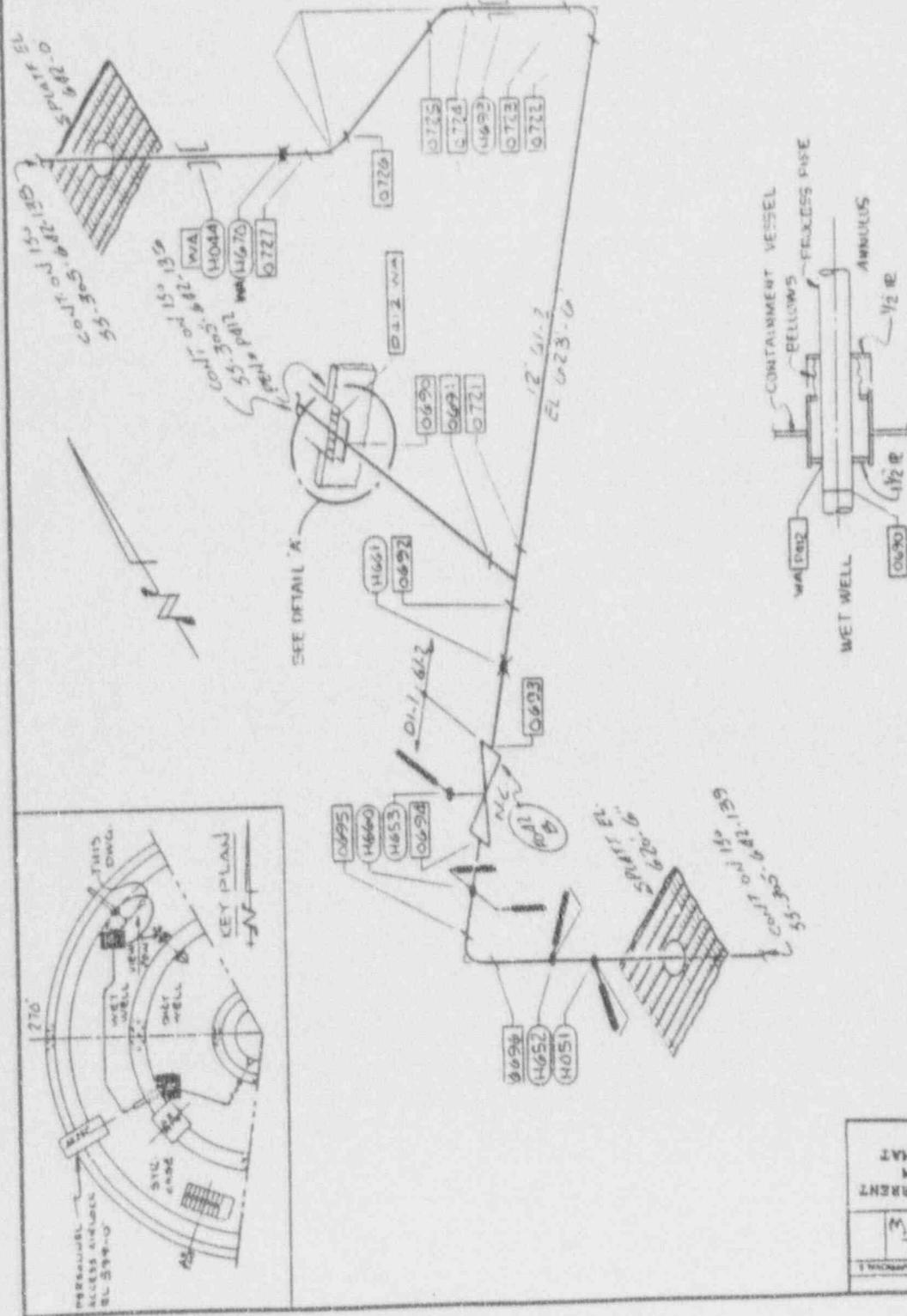
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS 1/2
- 2) PSI 03-15 151-E12-013

REF. DWG. D-304-643

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: 150 IS1	Sheet: 1
151 PIPING 150 SYS. E12	
RUE LOOP 'D'	
DRAWING NO. EL-625-6	
DATE: 11-1-64	BY: [Signature]
SCALE: AS SHOWN	APPROVED: [Signature]
REV. 1	DATE: 11-1-64
REV. 2	DATE: 11-1-64
REV. 3	DATE: 11-1-64
REV. 4	DATE: 11-1-64
REV. 5	DATE: 11-1-64
REV. 6	DATE: 11-1-64
REV. 7	DATE: 11-1-64
REV. 8	DATE: 11-1-64
REV. 9	DATE: 11-1-64
REV. 10	DATE: 11-1-64
REV. 11	DATE: 11-1-64
REV. 12	DATE: 11-1-64
REV. 13	DATE: 11-1-64
REV. 14	DATE: 11-1-64
REV. 15	DATE: 11-1-64
REV. 16	DATE: 11-1-64
REV. 17	DATE: 11-1-64
REV. 18	DATE: 11-1-64
REV. 19	DATE: 11-1-64
REV. 20	DATE: 11-1-64



REVISED TO CURRENT STANDARDS/FORMAT PER DCM 3411
151 PROGRAM
REVISIONS
NO. DATE
1 11-1-64
2 11-1-64
3 11-1-64
4 11-1-64
5 11-1-64
6 11-1-64
7 11-1-64
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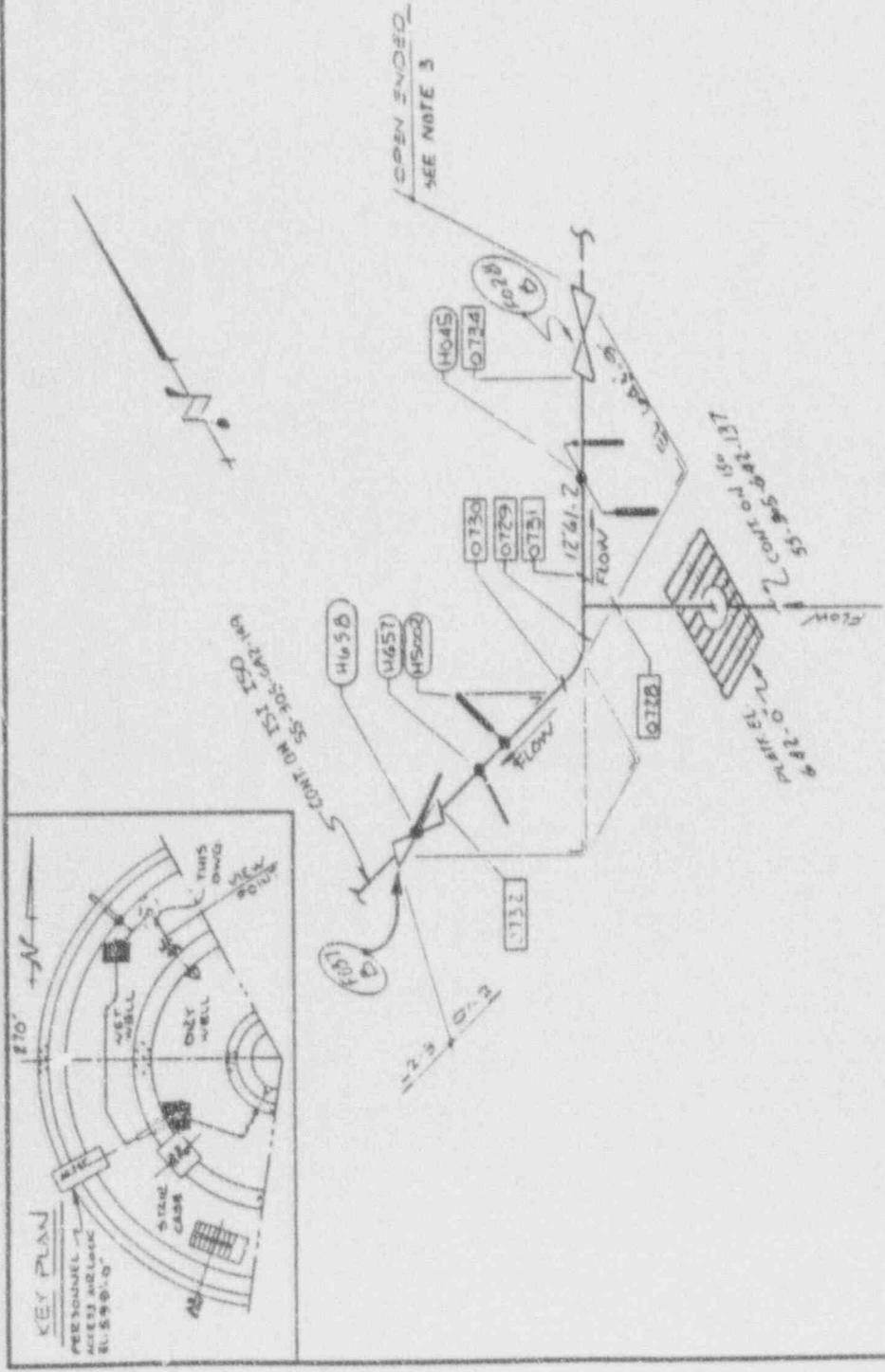
**NOTES:**

- 1) ALL PIPING ON THIS IS 15 CLASS 2
- 2) PSI C3-13  
151-E12-013
- 3) EXEMPT PER CC-408.

REF. DWG  
D-304-1050

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
RUC LOOP 'B'	
IS1 PIPING 150 SYS: E12	
GRATE BLDG. BL. 642-5	
DATE: 11/17/11	BY: JLR
REV: 1	DATE: 11/17/11
REV: 2	DATE: 11/17/11
REV: 3	DATE: 11/17/11
REV: 4	DATE: 11/17/11
REV: 5	DATE: 11/17/11
REV: 6	DATE: 11/17/11
REV: 7	DATE: 11/17/11
REV: 8	DATE: 11/17/11
REV: 9	DATE: 11/17/11
REV: 10	DATE: 11/17/11
REV: 11	DATE: 11/17/11
REV: 12	DATE: 11/17/11
REV: 13	DATE: 11/17/11
REV: 14	DATE: 11/17/11
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REV: 25	DATE: 11/17/11
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REV: 27	DATE: 11/17/11
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REV: 29	DATE: 11/17/11
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REV: 33	DATE: 11/17/11
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REV: 39	DATE: 11/17/11
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REV: 45	DATE: 11/17/11
REV: 46	DATE: 11/17/11
REV: 47	DATE: 11/17/11
REV: 48	DATE: 11/17/11
REV: 49	DATE: 11/17/11
REV: 50	DATE: 11/17/11



REV	DATE	BY	DESCRIPTION
B	11/17/11	JLR	REVISIT TO CURRENT
1/2	11/17/11	JLR	ISI PROGRAM
M	11/17/11	JLR	STANDARDS/FORMAT
H	11/17/11	JLR	PER DCN 3542
1	11/17/11	JLR	AND DCN 3650

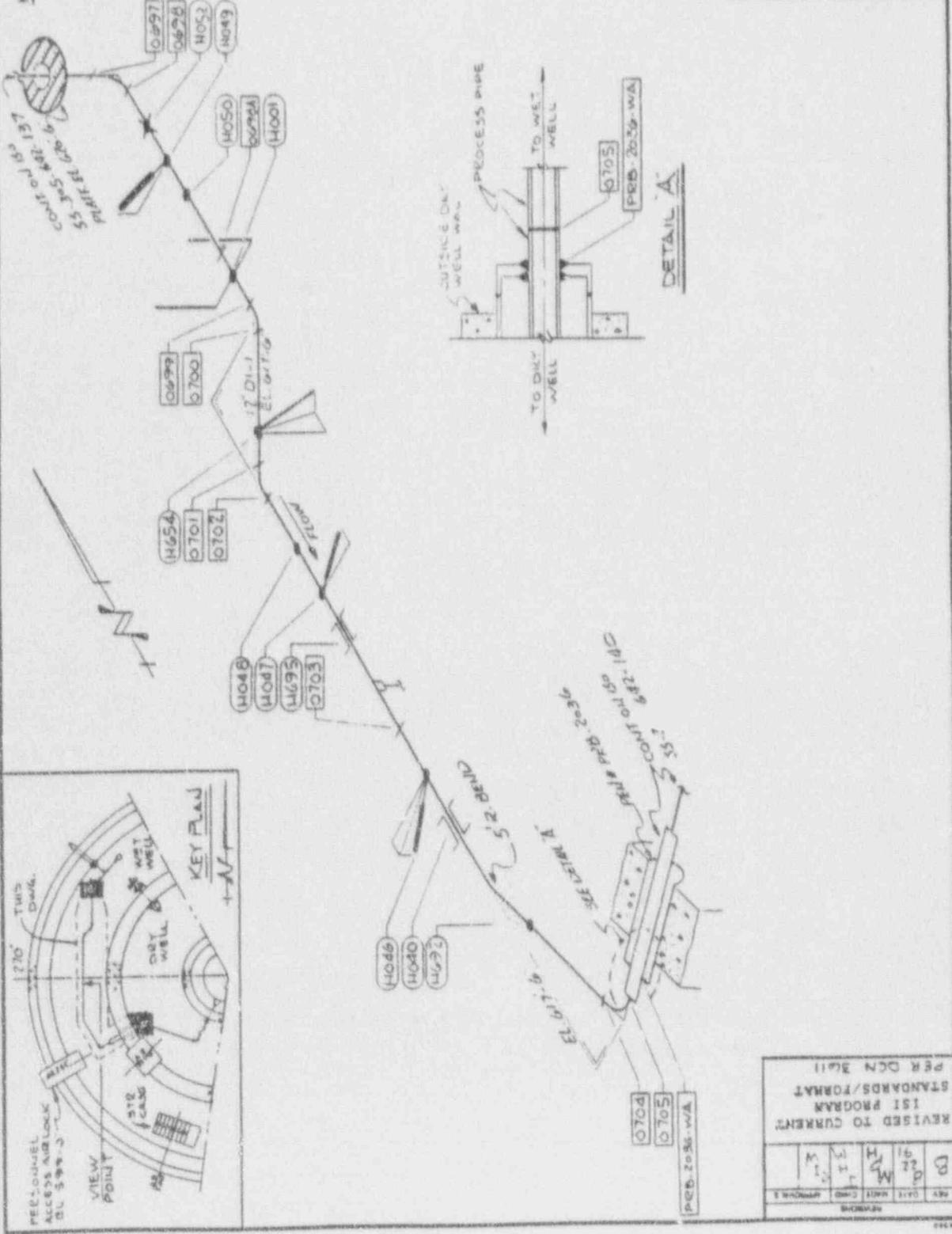
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 03-3  
151-E1Z-013

SEE DWG  
A 309-693

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet 1
151 PIPING 150 SYS: E1Z	
RHP LOOP 'B'	
CREATOR BLDG EL 599-0	
DATE: 12/14/89	BY: JLD



REV	DATE	BY	DESCRIPTION
01	12/14/89	JLD	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3011
02			
03			

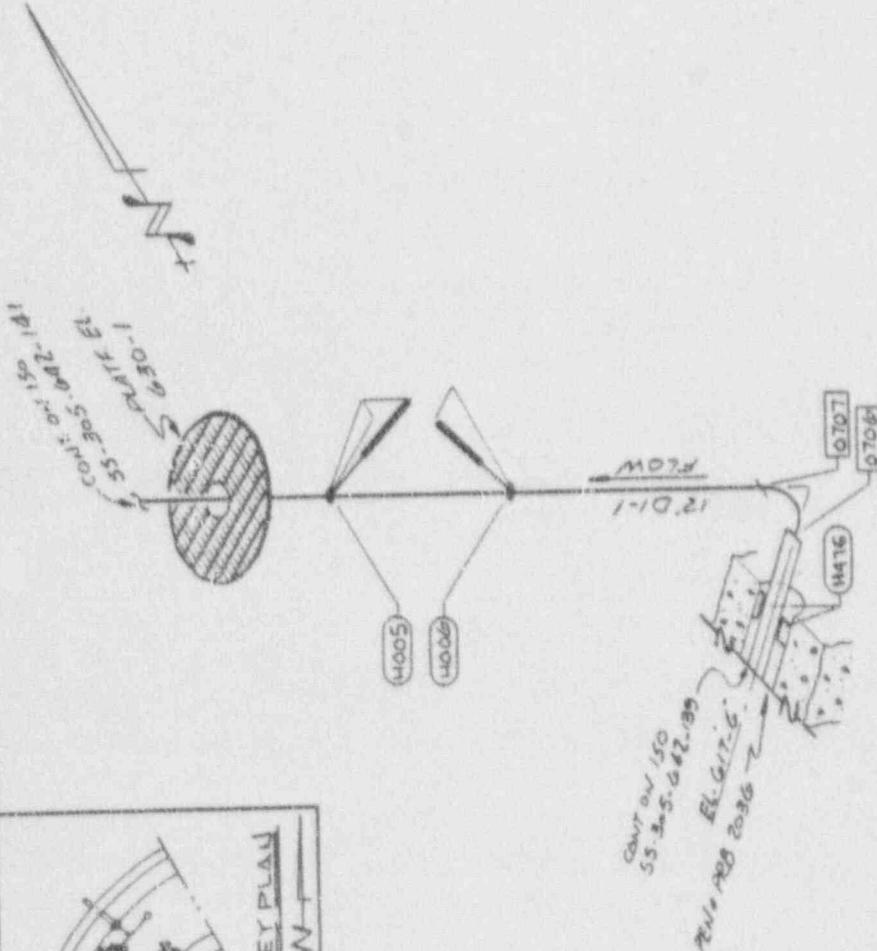
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 03-13 151-E12-013

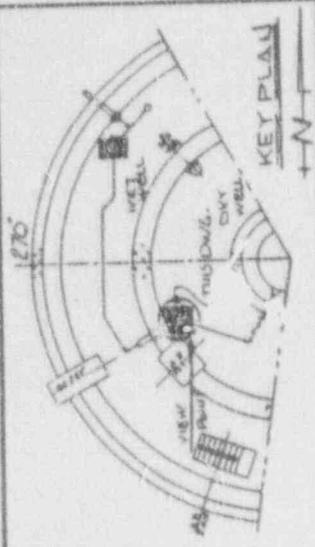
REF DWG  
D. 209-293

NOTE: THIS DRAWING IS FOR  
EST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name/Plant:	EST 1
151 PIPING 150	SYS: E12
RVR LOOP	D
CREATING BLDG	EL: 577-0
DATE	11/17/89
BY	W/A
CHECKED	N/A
DATE	1/7/90
SCALE	AS SHOWN
REV	55-305-642-100
DATE	E12



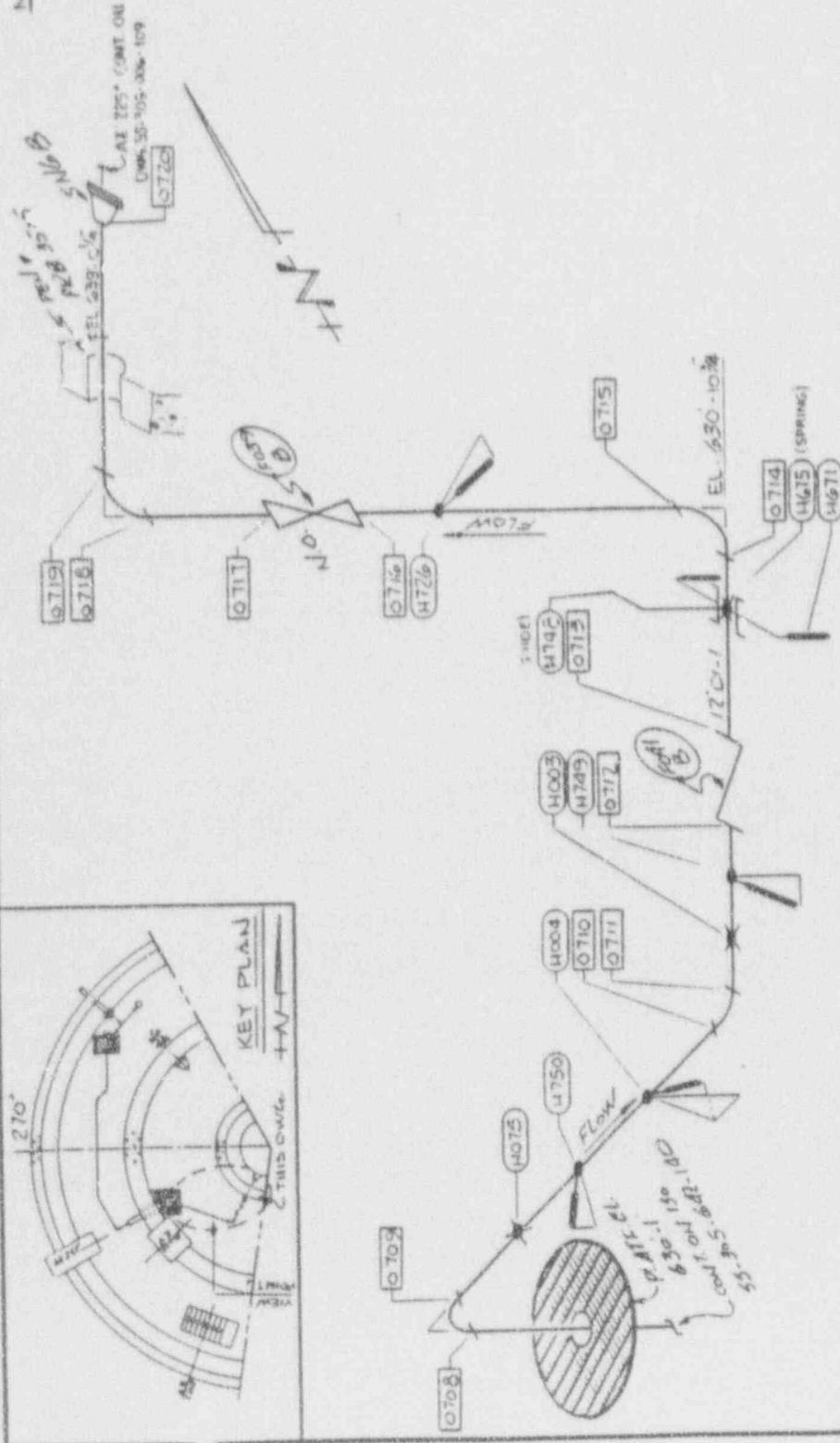
CONC. DUCT 150  
55-305-642-100  
EL. 617.6  
REV: 108 2036



REV	BY	DATE	DESCRIPTION
D	M	16	REVISED TO CURRENT
P	H	22	EST PROGRAM
M	W	19	STANDARDS/FORMAT
J	M	16	PER DCM 3011

**NOTES:**

- 1) ALL PIPING IS ISO 15 CLASS
- 2) PSI 03-13  
151-E12-013



SEE DWS  
D-204-693

NOTE: WEL DRABING IS FOR  
ISO 15 OCEAN USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE DEPT. OF ELECTRIC ILLUMINATING DIVISION	
Project Name: Power Plant	Sheet: 1
151 PIPING ISO 15 PSI 03-13	
RHE LOOP B	
CREATOR BLDG EL. 630-1	
NO. OF SHEETS	TOTAL SHEETS
1	1
DATE: 1/1/79	BY: N/A
DATE: 1/1/79	BY: N/A
DATE: 55-305-642-141	BY: B
DATE: 57	BY: B

NO. OF SHEETS	TOTAL SHEETS
1	1
DATE: 1/1/79	BY: N/A
DATE: 1/1/79	BY: N/A
DATE: 55-305-642-141	BY: B
DATE: 57	BY: B

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCI 3611

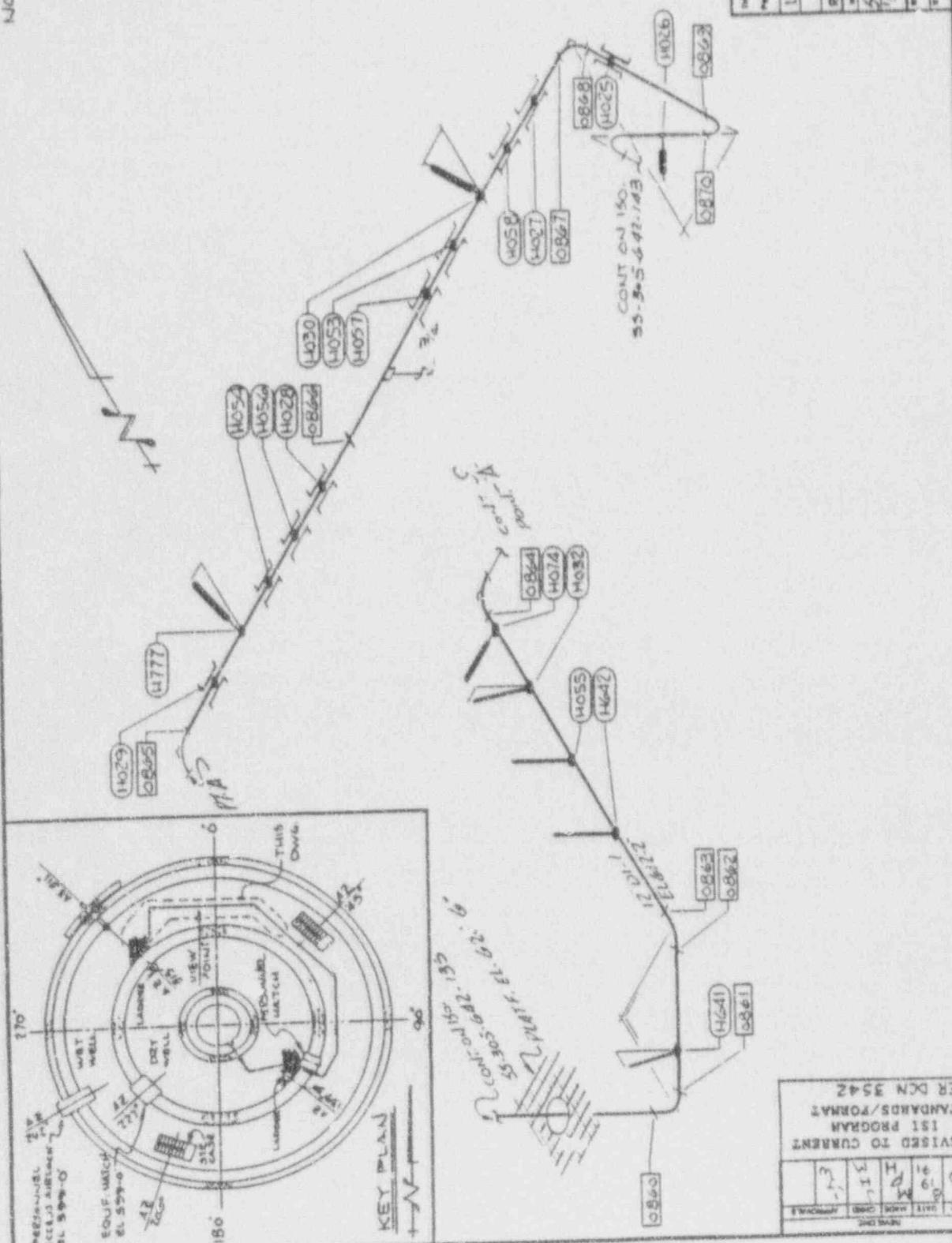
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS I
- 2) PSI 03-17/18  
151-E12-011/018

SEE DWG  
D-204-16-95  
D-304-1-49

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

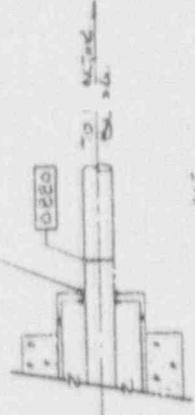
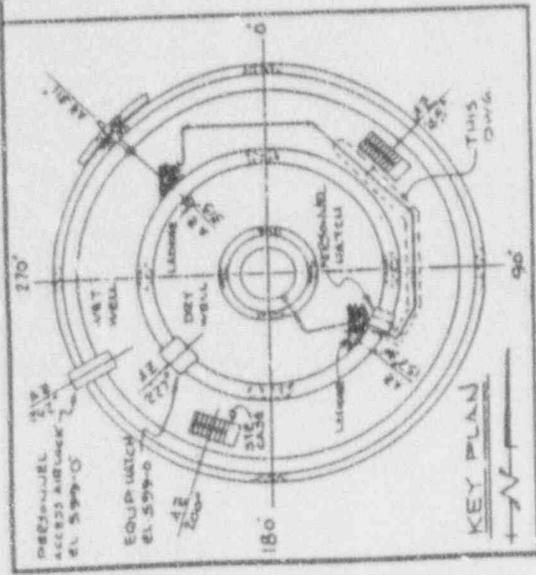
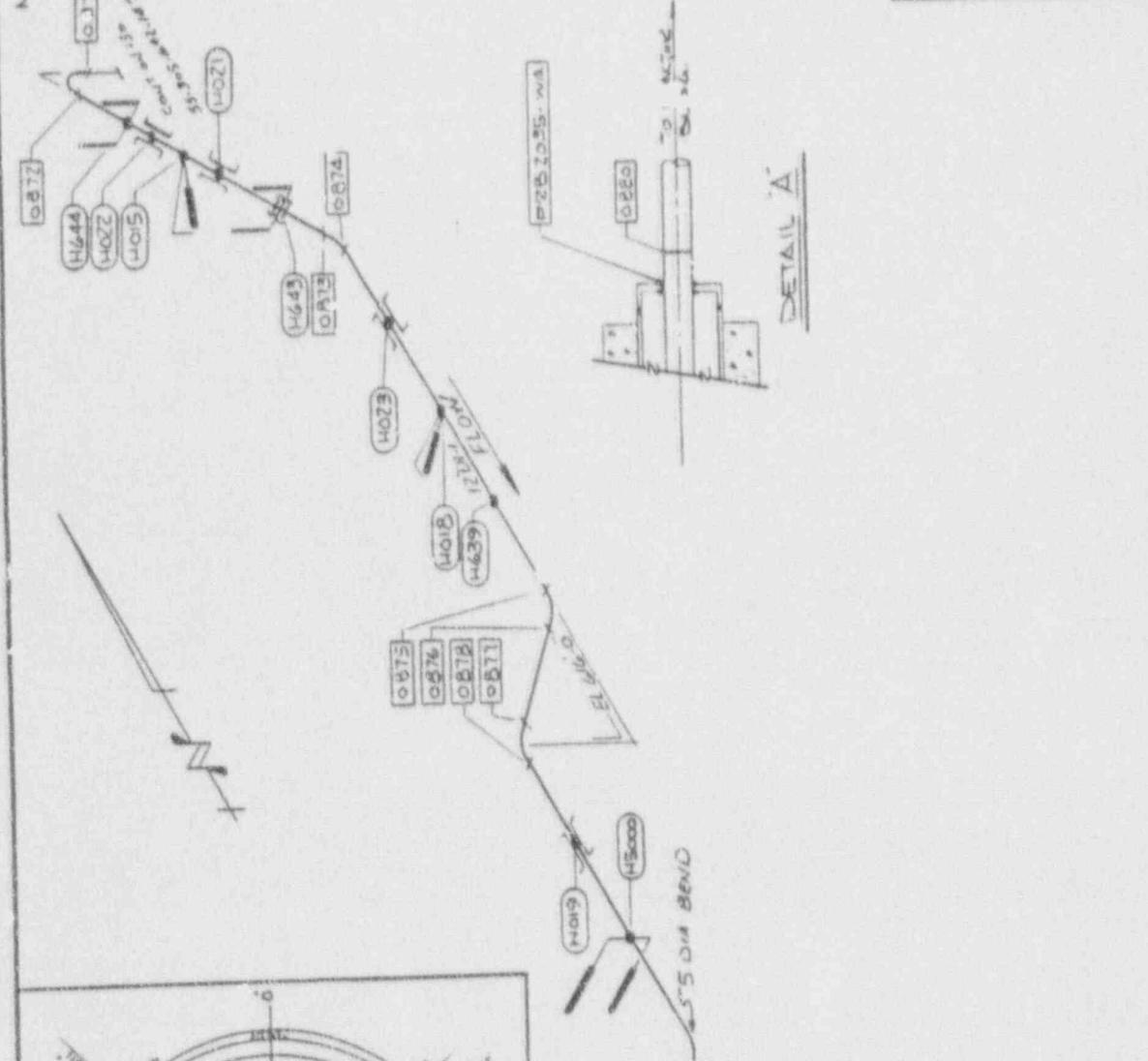
THE DEPENDABLE ELECTRIC ILLUMINATING COMPANY	
PERIT NATION POWER PLANT	SHEET 1
151 PIPING 150 SYS: E12	
RHR LOOP C	
REACTOR BLDG EL. 599'-0"	
DATE: 03/17/88	BY: JTB



DATE	BY	REVISION
03/17/88	JTB	1
03/17/88	JTB	2
03/17/88	JTB	3
03/17/88	JTB	4
03/17/88	JTB	5
03/17/88	JTB	6
03/17/88	JTB	7
03/17/88	JTB	8
03/17/88	JTB	9
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03/17/88	JTB	43
03/17/88	JTB	44
03/17/88	JTB	45
03/17/88	JTB	46
03/17/88	JTB	47
03/17/88	JTB	48
03/17/88	JTB	49
03/17/88	JTB	50

NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS I
- 7) PSI 03-18 151-E12-018



DETAIL 'A'

SEE DWG  
D-304-69B

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM '08 DWG AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

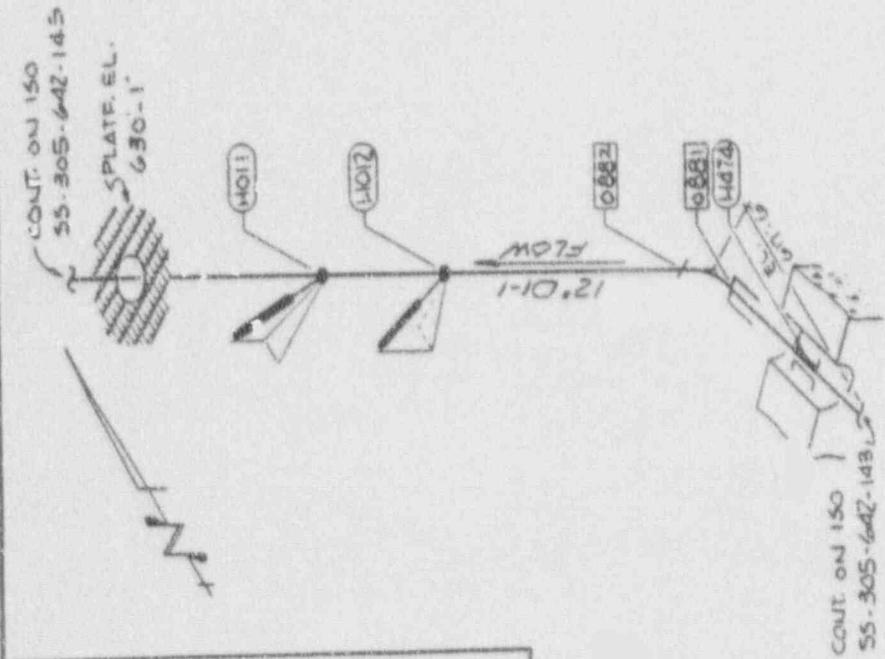
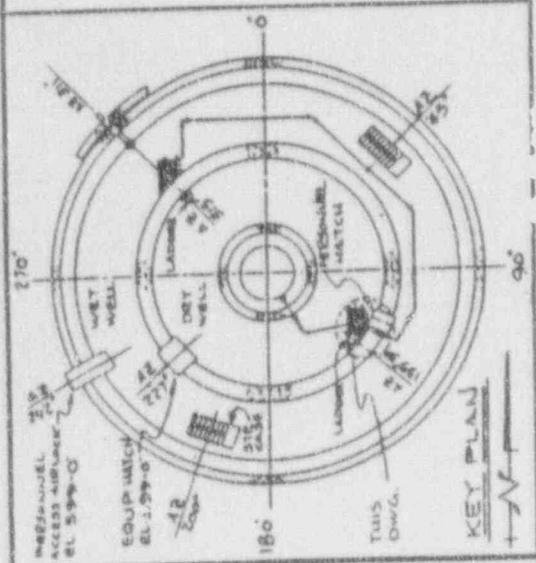
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Process Electric Plant Unit 6

151 PIPING 150 SYS - 12  
RHE LOOP C  
REACTOR BUILDING

REV	DATE	BY	CHKD	APPR	DESCRIPTION
1	11/14/85	PK			11/18/86
2	11/14/85	PK			11/18/86
3	11/14/85	PK			11/18/86
4	11/14/85	PK			11/18/86
5	11/14/85	PK			11/18/86
6	11/14/85	PK			11/18/86
7	11/14/85	PK			11/18/86
8	11/14/85	PK			11/18/86
9	11/14/85	PK			11/18/86
10	11/14/85	PK			11/18/86

DATE: 11/14/85  
DWG NO: 55-905-642-143  
REV: 8

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 8411	D
	P
	H
	M
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	W
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	10
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	60
	70
	80
	90
	100



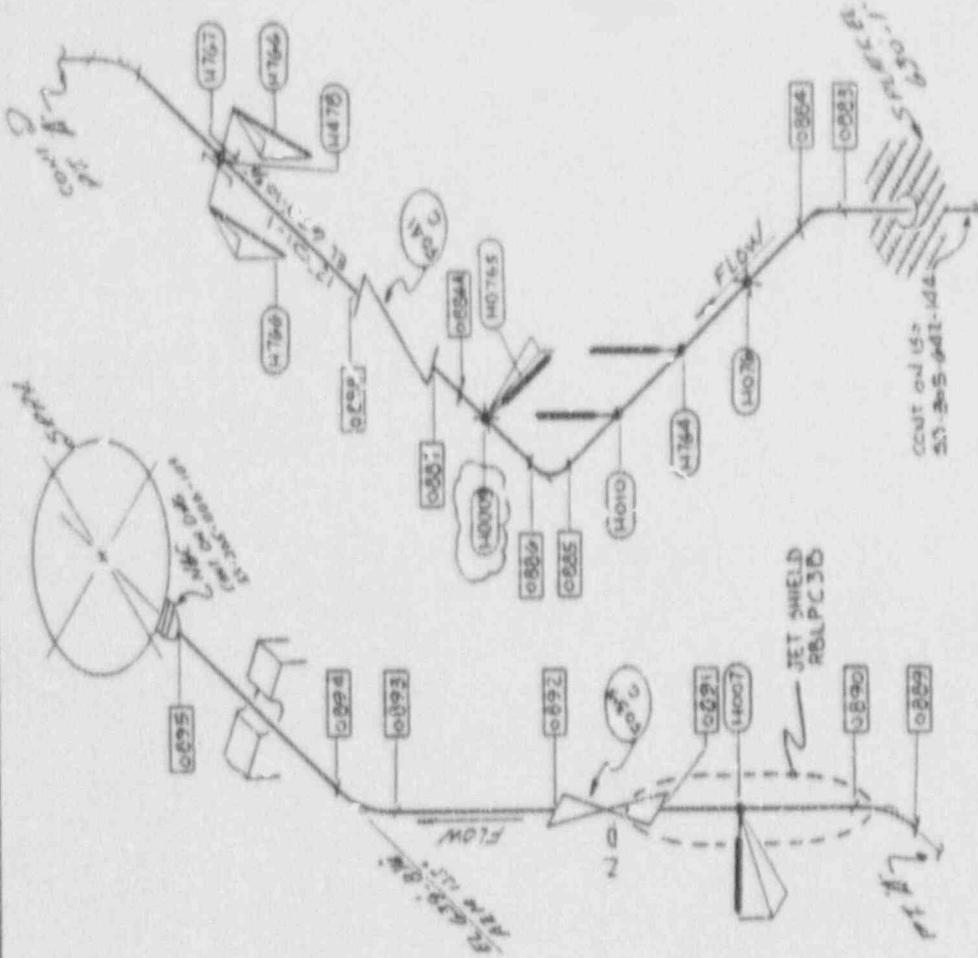
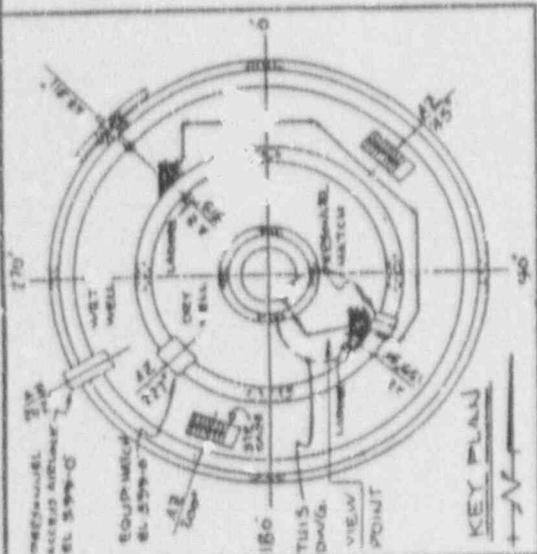
- NOTES:
- 1) ALL PIPING ON THIS 150 IS CLASS 1
  - 2) PSI 03-18 151-E12-018

REF. DWG.  
D-204-L19

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE SLEWING ELECTRIC ILLUMINATING COMPANY	
Project Name: 151 Program	Sheet: 1
151 PIPING 150 STS: E12	
RHR LOOP C	
REACTOR BLDG EL. 59'-0"	
DATE: 11/11/69	BY: N/A
DATE: 11/11/69	BY: N/A
DATE: 55-305-642-141 B	BY: N/A

REV	DATE	BY	APP'D	REVISIONS
1	11/22/69	M	H	REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3011



NOTES:  
 1) ALL PIPING IS THIS 150 LB CLASS  
 2) PSI 03-18  
 151-E12-018

SELF QME  
 A-224-643

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

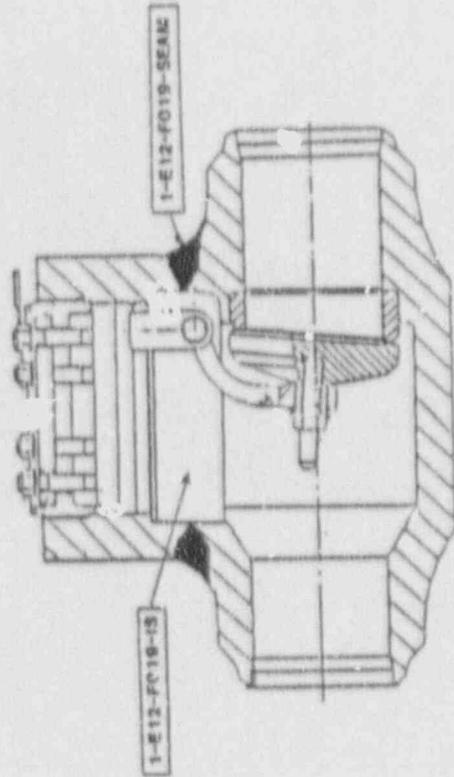
REV	DATE	BY	CHKD	APP'D
1	11/10/83	EL	EL	EL
2	11/10/83	EL	EL	EL
3	11/10/83	EL	EL	EL
4	11/10/83	EL	EL	EL
5	11/10/83	EL	EL	EL

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3411

PROJECT	151 PIPING 150 SYS E12
DESCRIPTION	RHR LOOP C
DATE	11/10/83
BY	EL
CHKD	EL
APP'D	EL
REVISIONS	55-905-642-143
SCALE	E12

Note -  
 1 ALL PIPING ON THIS  
 DWG IS CLASS 2  
 9 PSI 03-24  
 ISI E12-02B

REF. DWGS.  
 BORG WARNER DWG. NO. B1490  
 GAI DWG. NO. 4549-40-331-0-3



REF DWG  
 D 201-6 44

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUMINATING COMPANY  
 Part Number Sheet Part 1011

ISI PIPING DWG 515 E12  
 2" X 6" CHECK VALVE BEGON  
 LOOP IN WELD ARRANGEMENT

REV	DATE	BY	CHKD	APP'D
1	1/11	174	181N	11/10
2	1/11	174	181N	11/10
3	1/11	174	181N	11/10
4	1/11	174	181N	11/10
5	1/11	174	181N	11/10
6	1/11	174	181N	11/10
7	1/11	174	181N	11/10
8	1/11	174	181N	11/10
9	1/11	174	181N	11/10
10	1/11	174	181N	11/10
11	1/11	174	181N	11/10
12	1/11	174	181N	11/10
13	1/11	174	181N	11/10
14	1/11	174	181N	11/10
15	1/11	174	181N	11/10
16	1/11	174	181N	11/10
17	1/11	174	181N	11/10
18	1/11	174	181N	11/10
19	1/11	174	181N	11/10
20	1/11	174	181N	11/10
21	1/11	174	181N	11/10
22	1/11	174	181N	11/10
23	1/11	174	181N	11/10
24	1/11	174	181N	11/10
25	1/11	174	181N	11/10
26	1/11	174	181N	11/10
27	1/11	174	181N	11/10
28	1/11	174	181N	11/10
29	1/11	174	181N	11/10
30	1/11	174	181N	11/10
31	1/11	174	181N	11/10
32	1/11	174	181N	11/10
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36	1/11	174	181N	11/10
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97	1/11	174	181N	11/10
98	1/11	174	181N	11/10
99	1/11	174	181N	11/10
100	1/11	174	181N	11/10

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 1011

REV	DATE	BY	CHKD	APP'D
B	11/10	174	181N	11/10
A	11/10	174	181N	11/10
M	11/10	174	181N	11/10
J	11/10	174	181N	11/10
H	11/10	174	181N	11/10
G	11/10	174	181N	11/10
F	11/10	174	181N	11/10
E	11/10	174	181N	11/10
D	11/10	174	181N	11/10
C	11/10	174	181N	11/10
B	11/10	174	181N	11/10
A	11/10	174	181N	11/10

NOTE:-

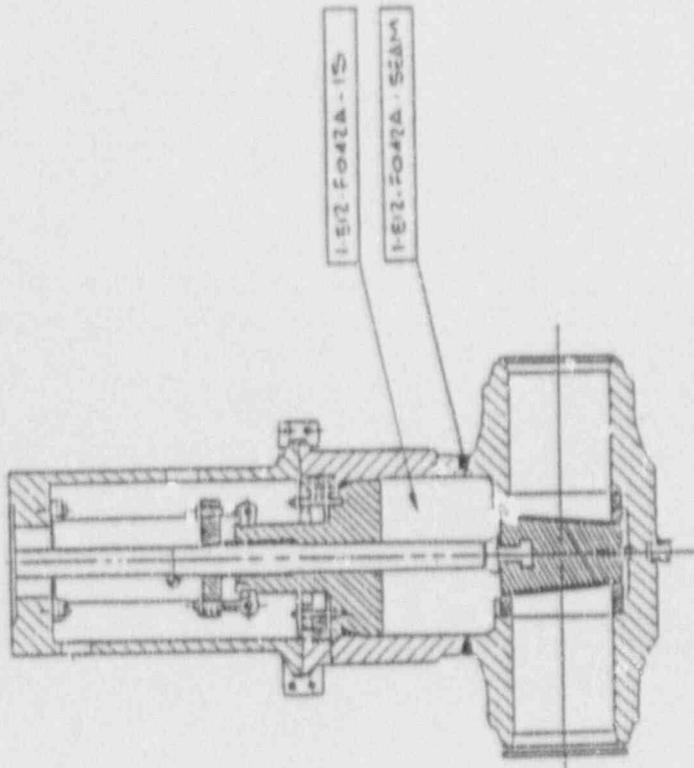
1 ALL PIPING ON T-1'S  
IS IN O.D.S. Q

2 PSI 03-25  
ISI ER-02D

3 WELD IDENTIFICATION  
NUMBERS FOR IDENTICAL  
VALVES FO42A & FO42C  
ARE 1-12-FO42B - SEAM  
1-12-FO42C - SEAM

SEE DATA  
0-204-492

INSTALLER MUST BE  
ISI PROGRAM FOR WELD AND  
SHALL NOT BE USED FOR  
PARTS/INSTALLATION



REF. DWG'S:

- 506G W/SHWR DWG NO B1720-2
- CAI DWG NO 4549-40-75D-1-2
- CAI DWG NO 4549-40-75B-1-2

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
DATE: 1955 DEC 5	
DRAWN BY: J. W. B. / 11/14/55	
CHECKED BY: J. W. B. / 11/14/55	
APPROVED BY: J. W. B. / 11/14/55	
Scale: 1/2" = 1'-0"	Notes: SEE DATA
Material: 5530A - 642 - 187	Quantity: 1

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER OLM 3611	DATE: 11/14/55	BY: J. W. B.
DATE: 11/14/55	BY: J. W. B.	APP: J. W. B.
DATE: 11/14/55	BY: J. W. B.	APP: J. W. B.
DATE: 11/14/55	BY: J. W. B.	APP: J. W. B.

Notes:-

1 ALL PIPING ON THIS IS IN CASE 2

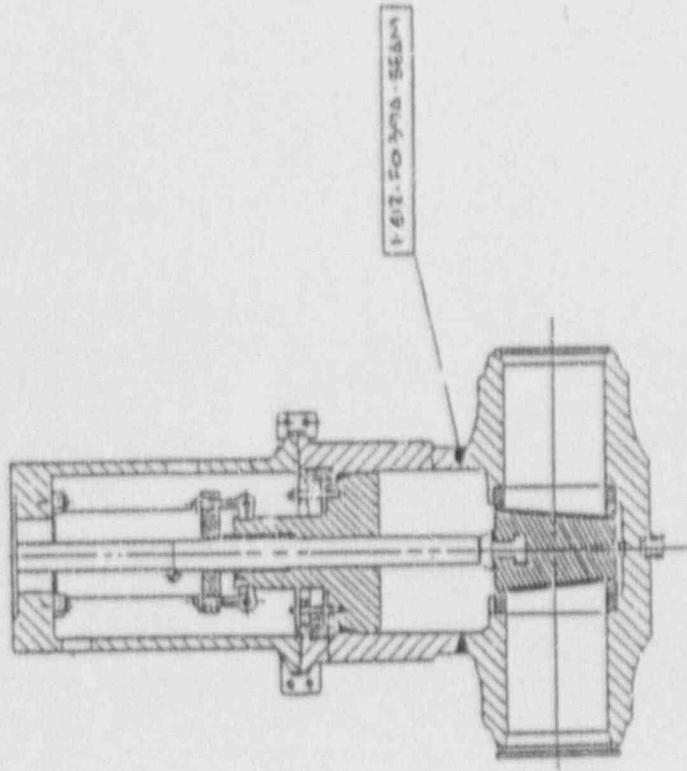
2 PSI 03-26  
151 E2-030

3. WELD IDENTIFICATION NUMBERS FOR IDENTICAL VALVES FOR 303 & 304 ARE 1-E2-FO-303-SEAM 1-E2-FO-304-SEAM

REF DWG 0-204-691

NOTE: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

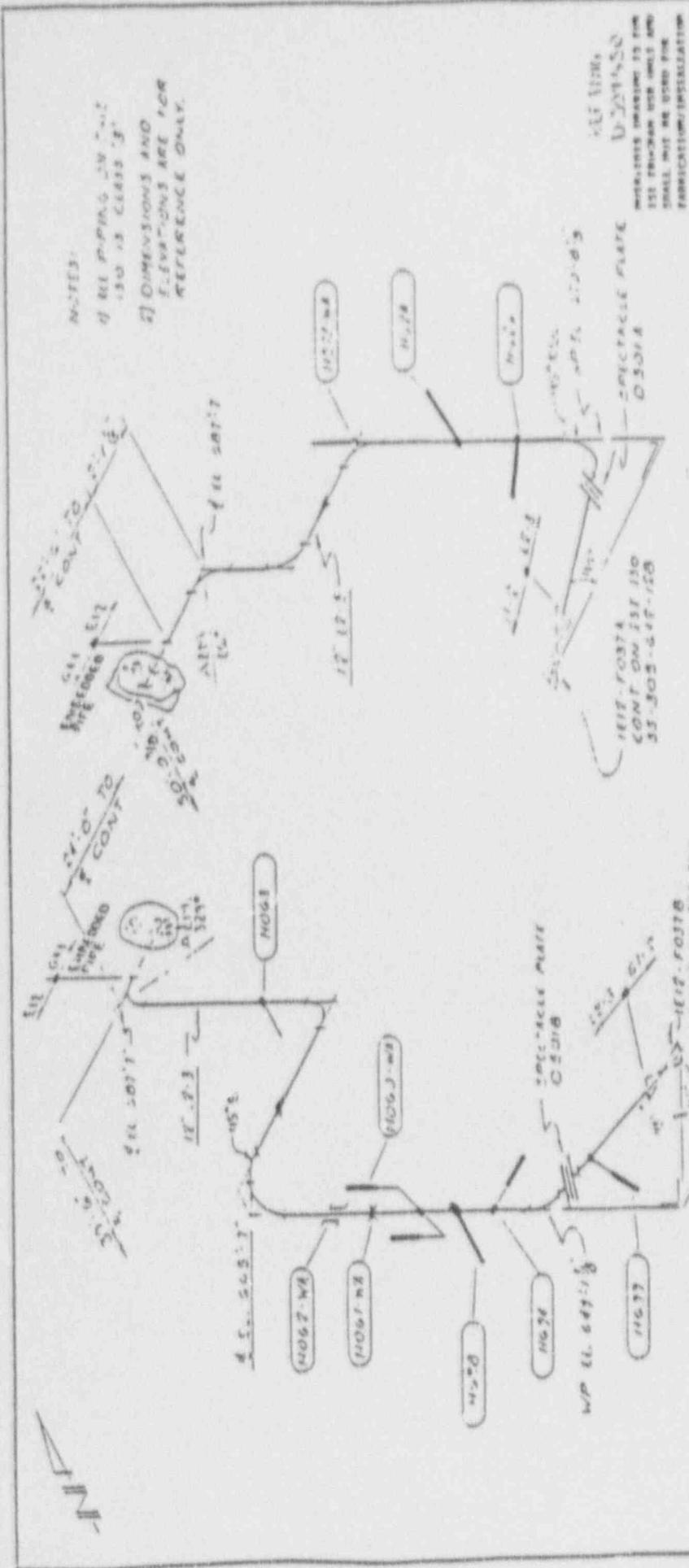
THE STANDARD ELECTRIC ILLUMINATING COMPANY			
Project Number	Sheet	1	
THE DRAWING NO.	SY'S E2		
THE PROJECT NAME	FO 303 & 304		
LOOP/A	WELLS ASSEMBLIES		
DATE	BY	CHECKED	APPROVED
50304-602-145			



DR DWG 0-204-691  
BORG WERNER DWG NO B1030  
CAI DWG NO 4549-40-47B-1-6  
CAI DWG NO 4549-40-732-1-2

REV	DATE	BY	CHKD	APPD
0	11/22/91	M	H	
1	11/22/91	H	M	
2	11/22/91	J	H	

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3611



NOTES:  
 1) ALL PIPING IS IN CLASS 150 LB CLASS 'B'  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

ALL DIMS. TO CENTER LINE UNLESS SPECIFIED OTHERWISE  
 DIMENSIONS IN BRACKETS ARE FOR THE INSTRUMENT CONNECTIONS  
 SMALL DIA. OR USED FOR FABRICATION/INSTALLATION

PROJECT NAME		PROJECT NO.	DATE
PROJECT LOCATION		PROJECT DESCRIPTION	PROJECT STATUS
DESIGNER	CHECKED	APPROVED	DATE
DATE	SCALE	SHEET NO. / TOTAL SHEETS	

REVISOR TO CURRENT 1ST PROGRAM STANDARDS/TQMAT  
 PER DCN 3542 AND BEN 3610

NOTE:

1 ALL PIPING ON T-150 IS CLASS 1

2 P&ID: 03-110

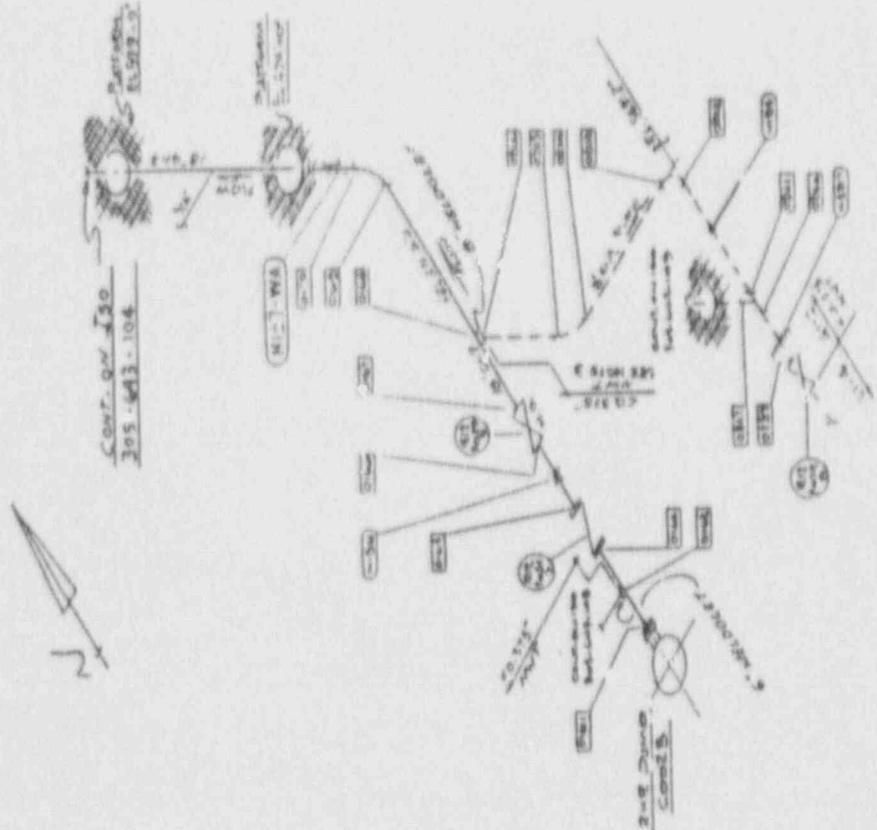
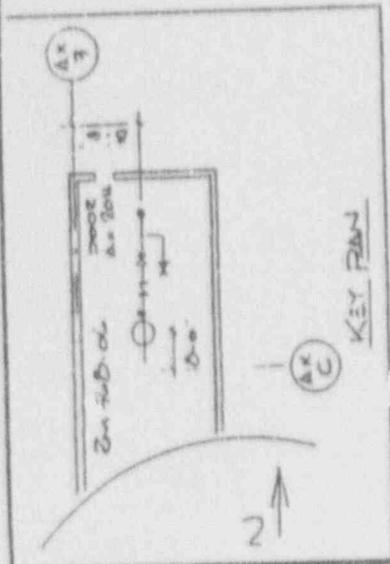
151 EIT-010

3 SUPPORTS AND WELDS ON PIPING LESS THAN .315" THICK TO NOT REQUIRE INSERVICE INSPECTION. (CODE DUE NUB)

REF DWG. D-304-61

NOTES: THIS DRAWING IS FOR THE PROCESSOR USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Pump Plant	Sheet: 1
EIT-010 PIPING 150 YDS EIT	
RHR LOOP "B"	
SUNSHINE Bldg. EIT-010	
DATE: 11/15/84	BY: J.A.



REVISED TO CURRENT	DATE	BY
151 PROGRAM	11/11/84	M.P.
STANDARDS/FORMAT	11/11/84	M.P.
PER DCM 3542	11/11/84	M.P.

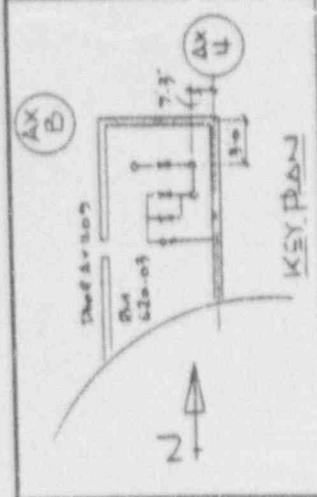
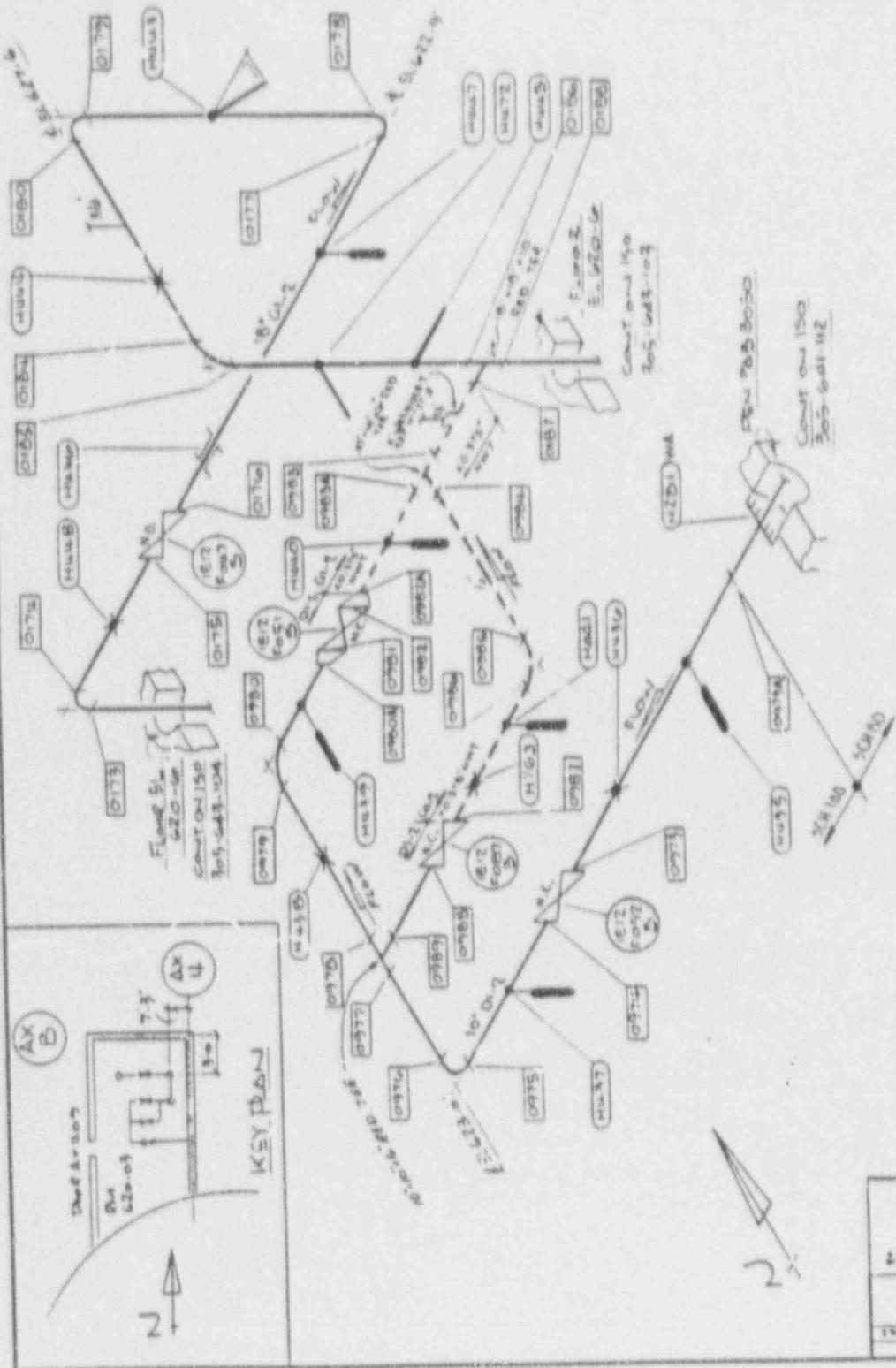
**Note**

- 1 ALL PIPING ON THIS 150 IS CLASS 2
- 2 PSI 03-10 151 E12-010
- 3 THIS PIPING IS EXEMPT FROM CODE CASE R-408, AEE-75 AND SUBJECTS ON THIS DRAWING DO NOT REQUIRE INSPECTOR SIGNATURE.

REF. DWG  
D-3049-99

INTERIORS DRAWING IS FOR 151 PROGRAM FOR ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING ELECTRICAL ILLUSTRATING COMPANY:	
PROJECT NO.	151-03-10
DATE	08/07/02
151 PROGRAM 150 SPS E-12	
RMR JOOP B.I. COMMON	
MULTI-USE BLDG 5L 420-6	
NO.	1
DATE	08/07/02
BY	JH/A
CHECKED	JH/A
DATE	08/07/02
SCALE	AS SHOWN
PROJECT NO.	151-03-10
SHEET NO.	01



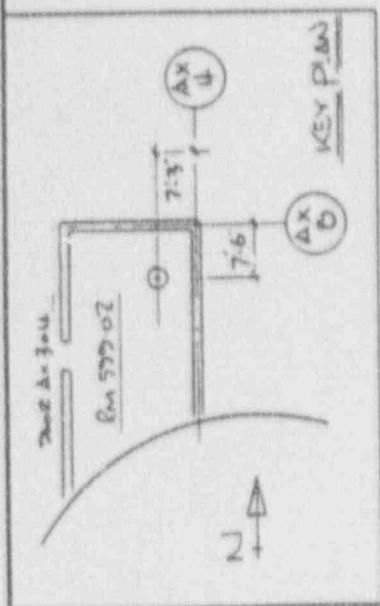
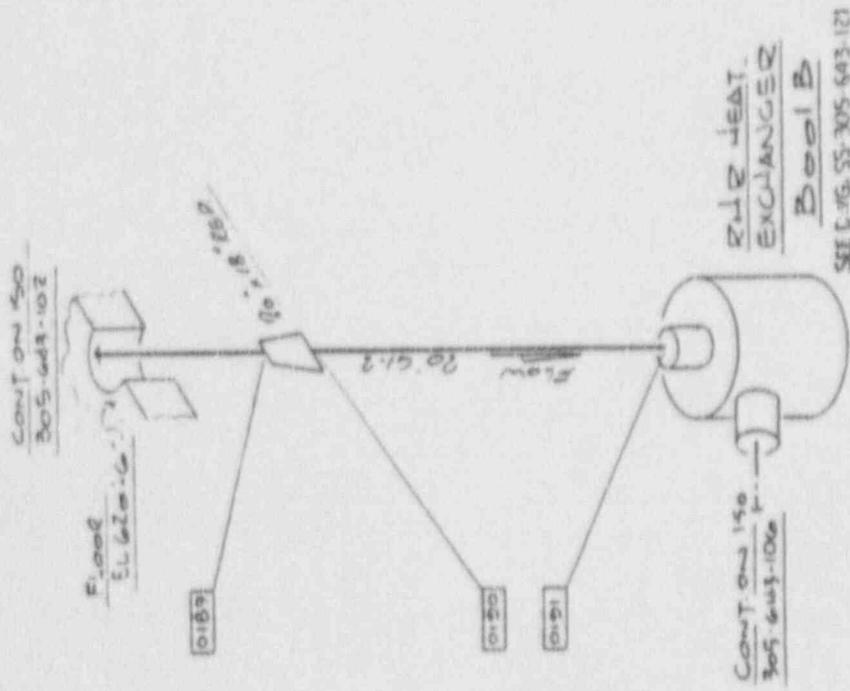
REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

NOTE -  
 1 ALL PIPING ON THIS  
 150 PSI CLASS ?  
 ? PSI 03-10  
 151 512-010

REF. DWG.  
 0-304-643

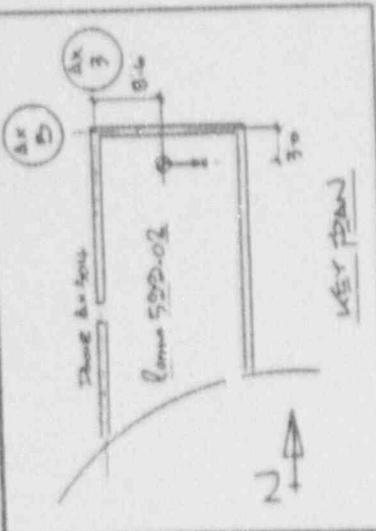
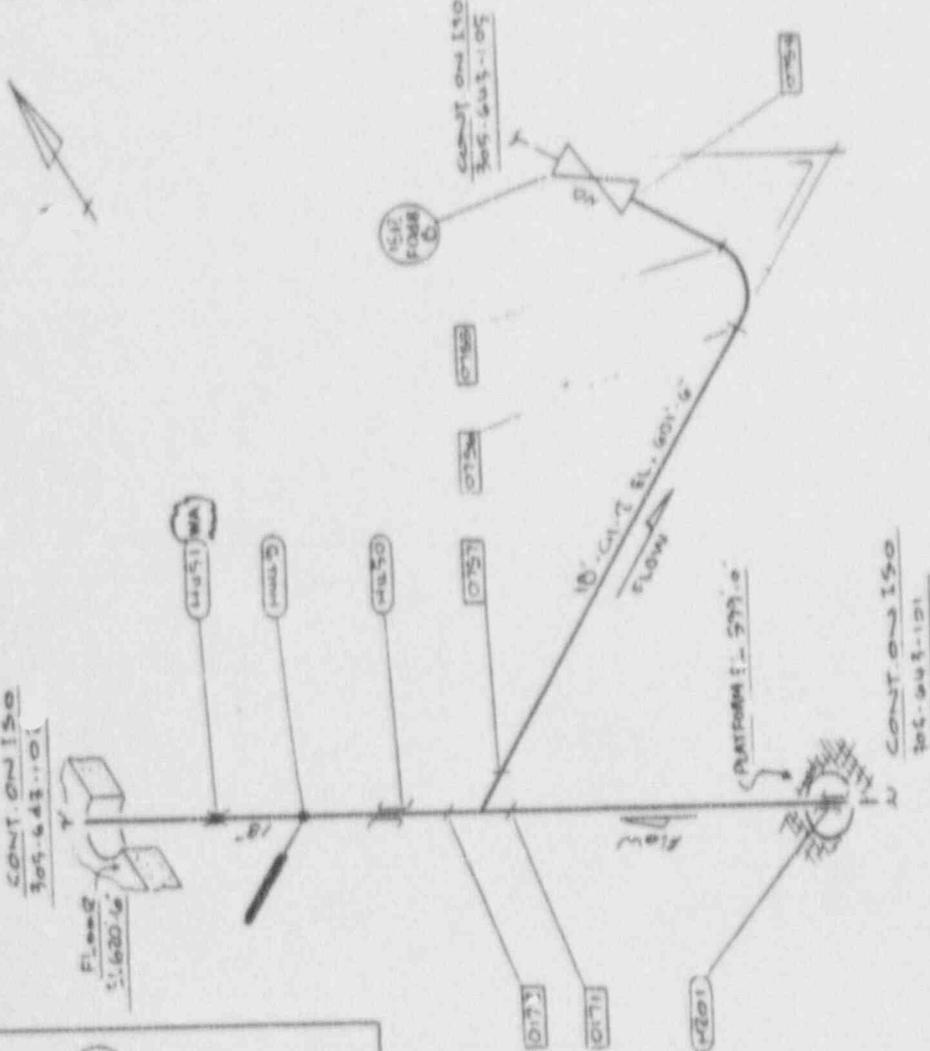
NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ALPHABETIC COMPANY	
WIRE NUMBER	WIRE SIZE
151 PIPING 150 SPS 512	1/2"
FHR LOOP 'B'	
AUXILIARY BLOCK EL 300-0	
WIRE NUMBER	WIRE SIZE
151 PIPING 150 SPS 512	1/2"
FHR LOOP 'B'	
AUXILIARY BLOCK EL 300-0	
WIRE NUMBER	WIRE SIZE
151 PIPING 150 SPS 512	1/2"
FHR LOOP 'B'	
AUXILIARY BLOCK EL 300-0	
WIRE NUMBER	WIRE SIZE
151 PIPING 150 SPS 512	1/2"
FHR LOOP 'B'	
AUXILIARY BLOCK EL 300-0	



REVISED TO CURRENT	DATE	BY	CHK	APP	DATE
STANDARDS FORMAT					
PER DCN 3611					

Note -  
 1 All piping and mbrs  
 150 lb class 2  
 ? PSI 05-10  
 151 612-010



REF. DWG.  
 D-204-643  
 MATERIALS DRAWING IS FOR  
 THE PROPOSAL FOR OIL AND  
 GAS USE OF THE PIPE  
 SHALL NOT BE USED FOR  
 FABRICATING/INSTALLATION

REVISIONS	
NO.	DESCRIPTION
1	REVISED TO CURRENT 151 PROGRAM
2	REVISED TO CURRENT 151 PROGRAM PER DGN 3542

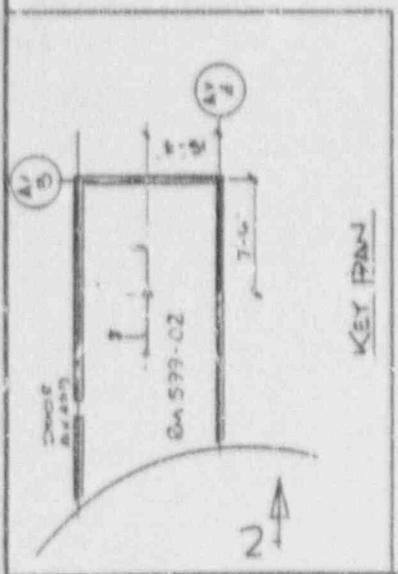
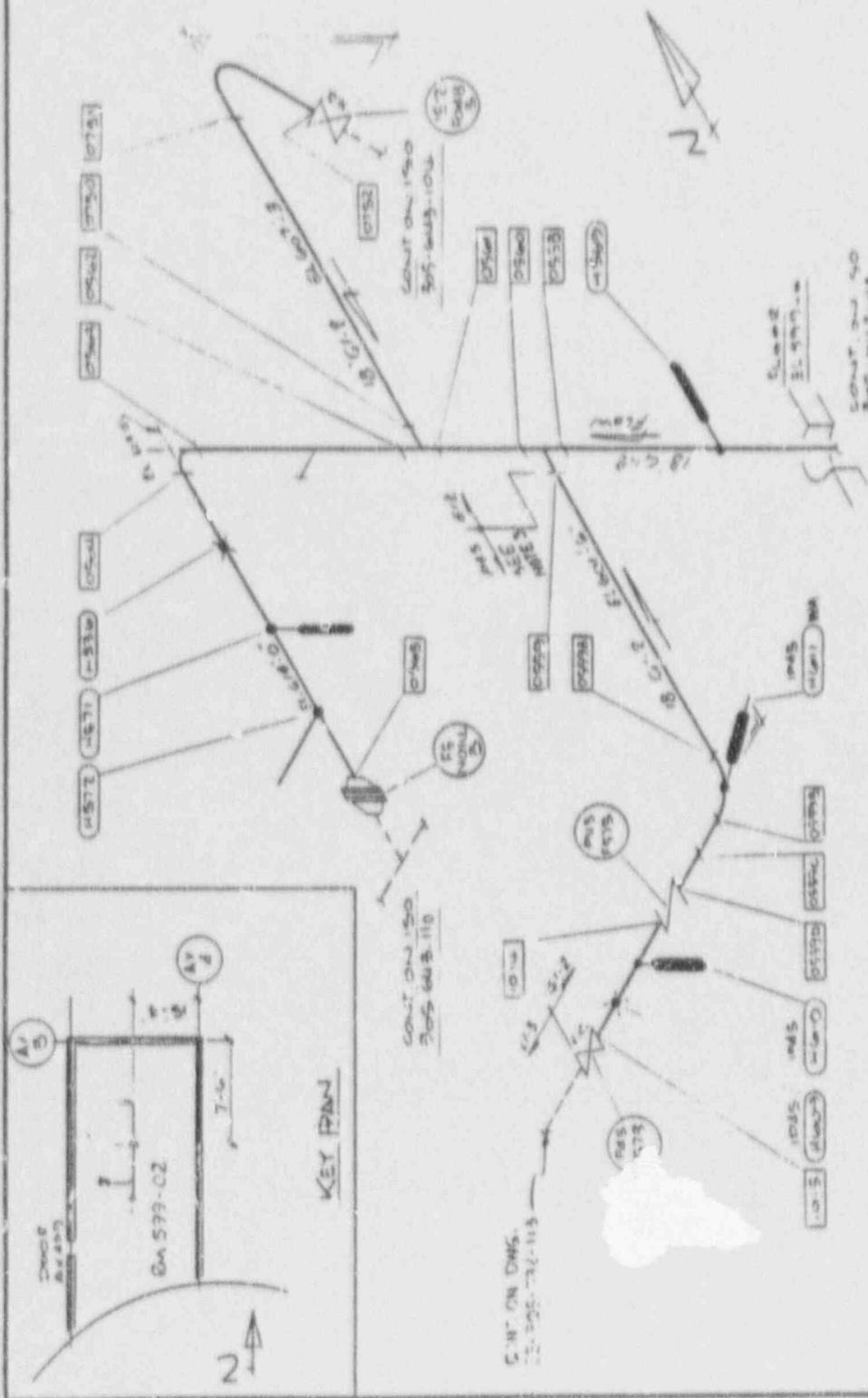
NO. OF SHEETS	1
TOTAL SHEETS	1
DATE	12/1/79
DRAWN BY	151151 MA
CHECKED BY	151151 MA
APPROVED BY	151151 MA
SCALE	AS SHOWN

REVISED TO CURRENT  
 151 PROGRAM  
 STANDAARD FORMAT  
 PER DGN 3542

NOTE -  
 1. ALL WORK ON THIS  
 150 IS CLASS 2  
 2. PBI 03-14  
 15.1 EIT-014  
 3. DESPITE SYSTEM BREAK  
 SHOWING ALL WELDS ON  
 THIS ISD ARE PREFILED  
 BY FEI2

REF DWG.  
 D-304-640  
 D-304-716  
 WELDED BRACING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE FOLLOWING ELECTRICAL ILLUSTRATION COMPRISES	
Part No.	Sheet No.
ISI PROGRAM	150 IS CLASS 2
REVISION	REMOVAL
Loop No.	5
Sheet No.	1
Rev.	1
Date	11/13/88
By	JL
Check	W/A
Appr.	W/A
Scale	AS SHOWN
Proj. No.	45-304-103-105
Proj. Name	150 IS CLASS 2



REV	DATE	BY	CHKD	APPV'D
1	11/13/88	JL	W/A	
2	11/13/88	JL	W/A	
3	11/13/88	JL	W/A	
4	11/13/88	JL	W/A	
5	11/13/88	JL	W/A	
6	11/13/88	JL	W/A	
7	11/13/88	JL	W/A	
8	11/13/88	JL	W/A	
9	11/13/88	JL	W/A	
10	11/13/88	JL	W/A	

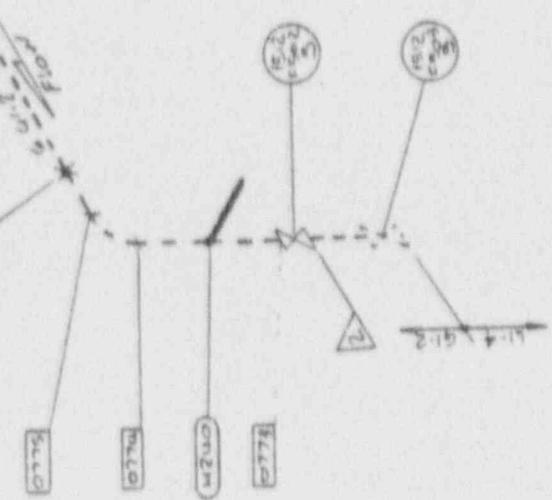
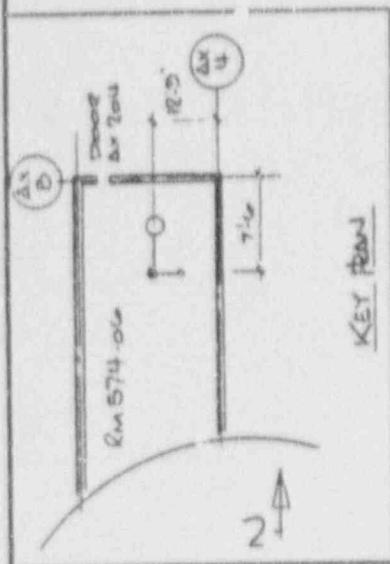
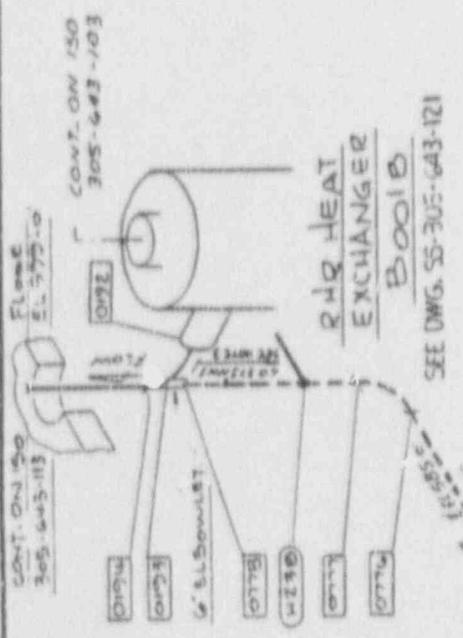
REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

Note -  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2  
 2 PIPING 1.5-1.75 CLASS 3  
 1.5-1 ER-1014  
 3 WELDS AND SUPPORTS ON  
 PIPING LESS THAN .75" THICK  
 DO NOT REQUIRE INSERVICE  
 INSPECTION  
 (CODE CASE NA408)

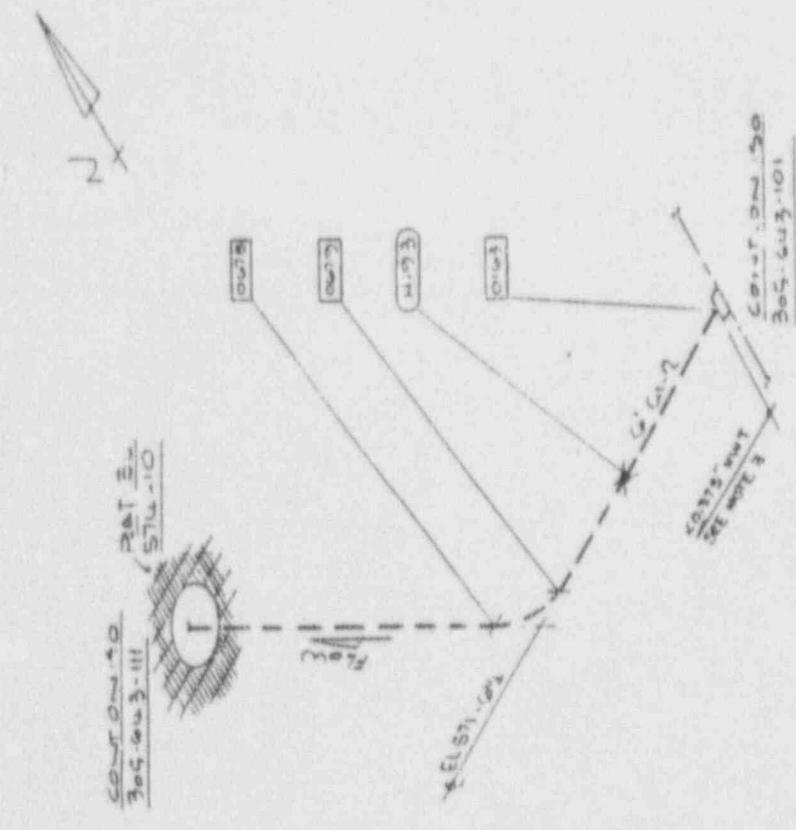
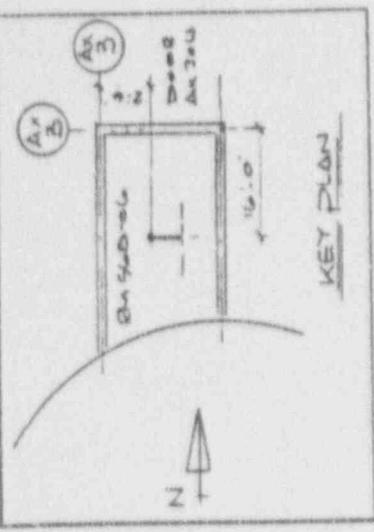
REV. 01/26  
 D. 304641

INTERFERING DEBRIS IS FOR  
 IFSI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Sheet 001
CLASSIFICATION: 150 WMS ER	
RESIDUAL HEAT REMOVAL	
UNIT	EL 574-10
DATE	AUG. 1964
BY	M/A
CHK	M/A
APP	M/A
REV	95 304641-106
DATE	01/26
BY	
CHK	
APP	



REV	DATE	BY	APP	CHK	DESCRIPTION
1	01/26	D	M	M	REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3542



Notes -  
 1. ALL PIPING ON THIS ISOLATION CABINETS  
 2. 251-03-11  
 151 E/2-O11  
 3. SUPPORTS AND WELDS ON PIPING LESS THAN .375" THICK DO NOT REQUIRE WELD SERVICE INSPECTION. (CORE CASE #008)

REF. QMG  
 D-209-6A1

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part No.	Power Plant
RESIDUAL HEAT REMOVAL	
URP'D. AUX. BLDG. S.L. 303-11	
DATE	REV.
10/2/50	1
11/1/50	2
12/1/50	3
1/1/51	4
2/1/51	5
3/1/51	6
4/1/51	7
5/1/51	8
6/1/51	9
7/1/51	10
8/1/51	11
9/1/51	12
10/1/51	13
11/1/51	14
12/1/51	15
1/1/52	16
2/1/52	17
3/1/52	18
4/1/52	19
5/1/52	20
6/1/52	21
7/1/52	22
8/1/52	23
9/1/52	24
10/1/52	25
11/1/52	26
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1/1/53	28
2/1/53	29
3/1/53	30
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12/1/54	51
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11/1/57	86
12/1/57	87
1/1/58	88
2/1/58	89
3/1/58	90
4/1/58	91
5/1/58	92
6/1/58	93
7/1/58	94
8/1/58	95
9/1/58	96
10/1/58	97
11/1/58	98
12/1/58	99
1/1/59	100

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 5411

NOTE:

1. ALL PIPING ON THIS  
150 IS CLASS 2

2. P.S.I. 03-10

151 E12-010

3. ALL PIPING ON THIS

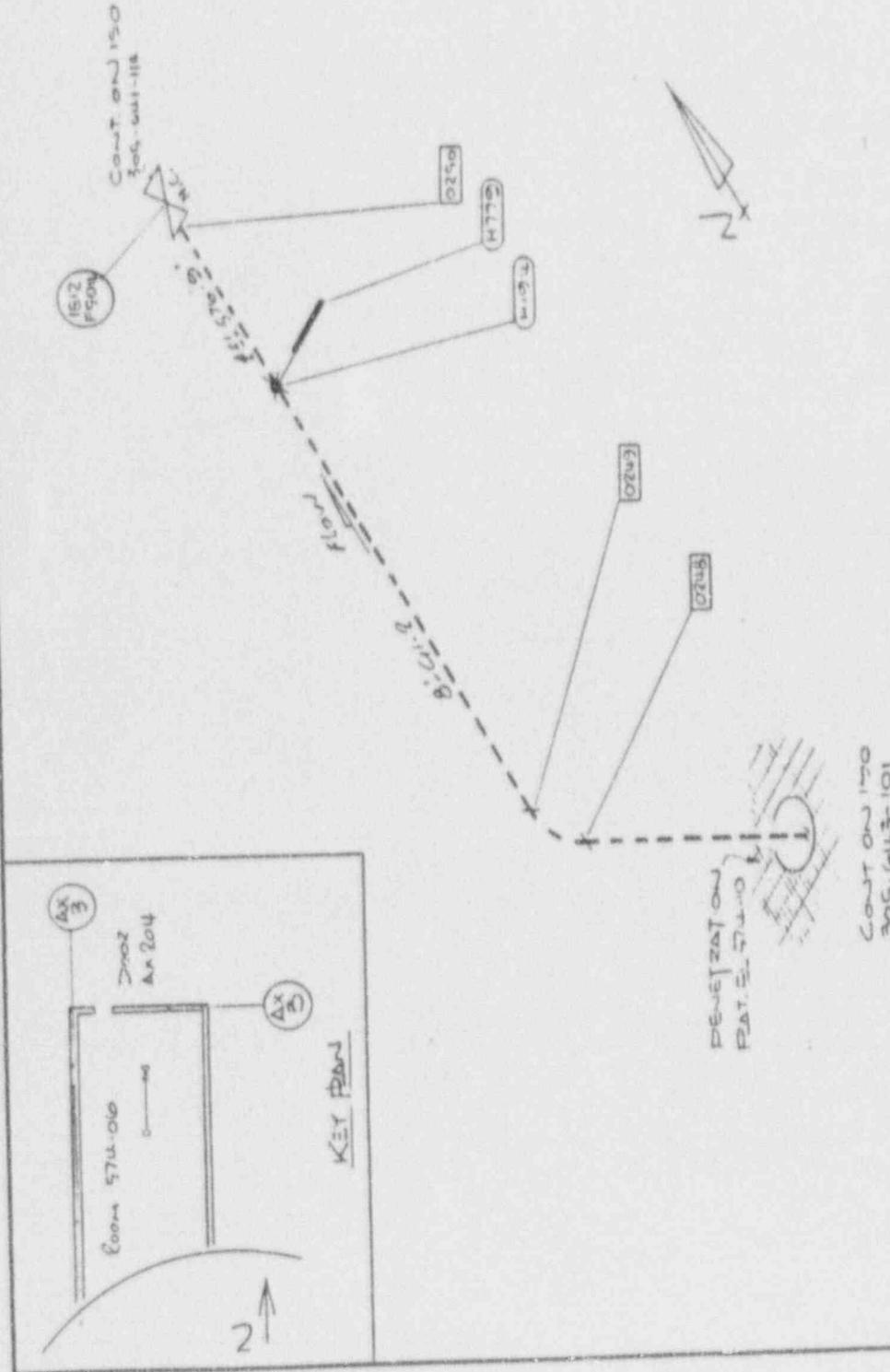
150 IS LESS THAN

0.375" NWT WELDS  
AND SUPPORTS TO MEET  
PROVIDE W/SERVICE  
INSPECTION. (SEE CASE HISTORY)

REF DWG  
D-204-101

INTEREST DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	305-643-101
DATE	1/16/10
BY	J. J. [Signature]
CHECKED	[Signature]
APPROVED	[Signature]
SCALE	AS SHOWN
PROJECT	305-643-101
REV	2



REV	2	DATE	1/16/10	BY	J. J. [Signature]
REV	1	DATE	1/16/10	BY	[Signature]

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCN 3011

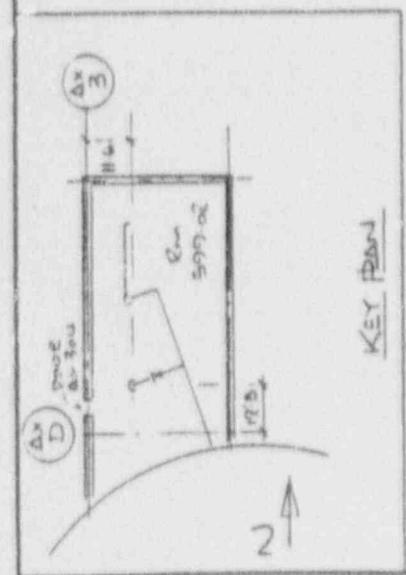
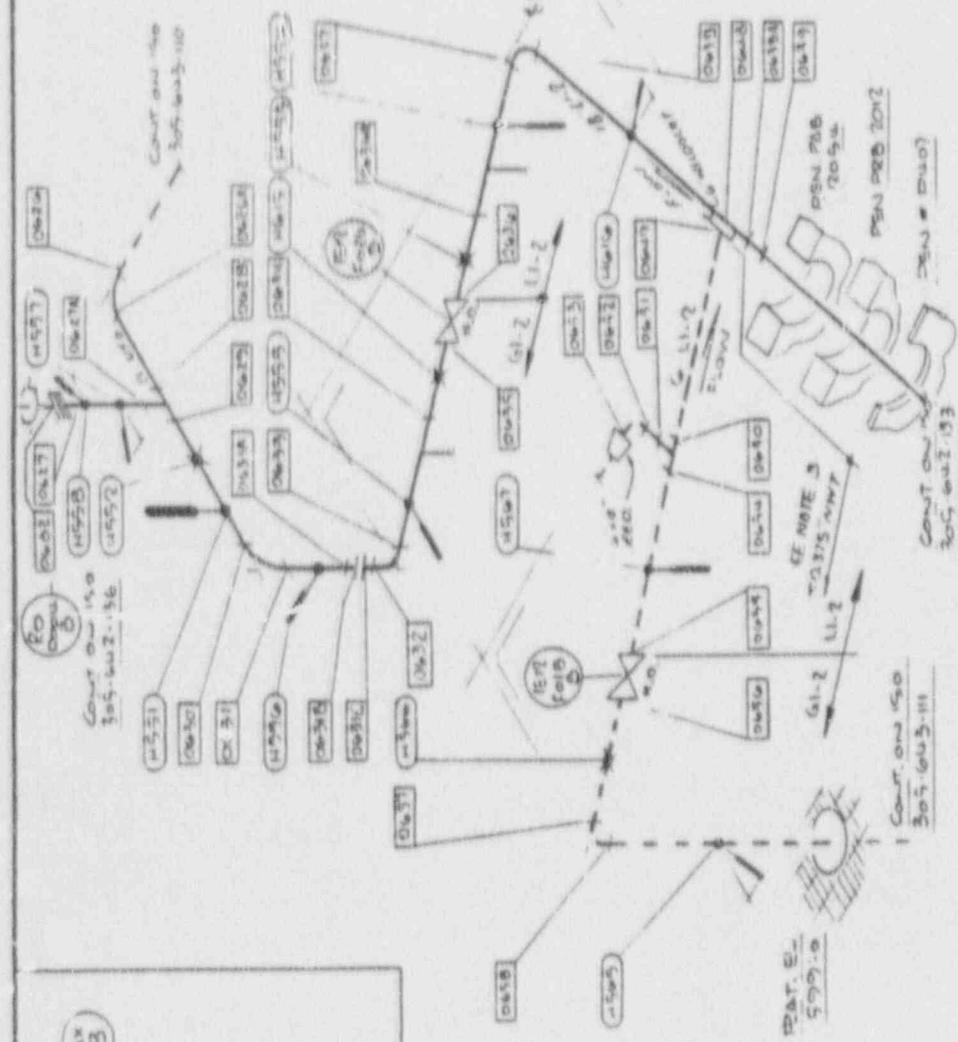
NOTE:  
 1 ALL PIPING ON THIS IS 150 LB CLASS 2  
 2 PSL 03-11115  
 3 WELDS AND SUPPORTS ON PIPING LESS THAN 175' THICK TO NOT REQUIRE INSERVICE INSPECTION (SEE CASE NOTES)

REV DWS  
 12-20-81

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUMINATION COMPANIES HAVE BEEN USED:

TYPE	QUANTITY	REMARKS
150 LB CLASS 2	1	ISI PIPING ISO TERS EIT
RESIDUAL HEAT REMOVAL		
LOOP - 6" DIA. DIA. 1.599'-0"		
DATE	BY	CHKD
12/20/81	DWS	M/A
NO.	1	M/A
DATE	12/20/81	12/20/81
SCALE	AS SHOWN	
PROJECT	45705-1-17-109	
REV		



REVISED, CURRENT STANDARDS/FORMAT PER DCN 3542

NO.	DATE	BY	CHKD
1	12/20/81	DWS	M/A
2	12/20/81	DWS	M/A
3	12/20/81	DWS	M/A
4	12/20/81	DWS	M/A
5	12/20/81	DWS	M/A
6	12/20/81	DWS	M/A
7	12/20/81	DWS	M/A
8	12/20/81	DWS	M/A
9	12/20/81	DWS	M/A
10	12/20/81	DWS	M/A
11	12/20/81	DWS	M/A
12	12/20/81	DWS	M/A
13	12/20/81	DWS	M/A
14	12/20/81	DWS	M/A
15	12/20/81	DWS	M/A
16	12/20/81	DWS	M/A
17	12/20/81	DWS	M/A
18	12/20/81	DWS	M/A
19	12/20/81	DWS	M/A
20	12/20/81	DWS	M/A

NOTE:  
 1 ALL PIPING ON THIS  
 150 IS CLASS 2

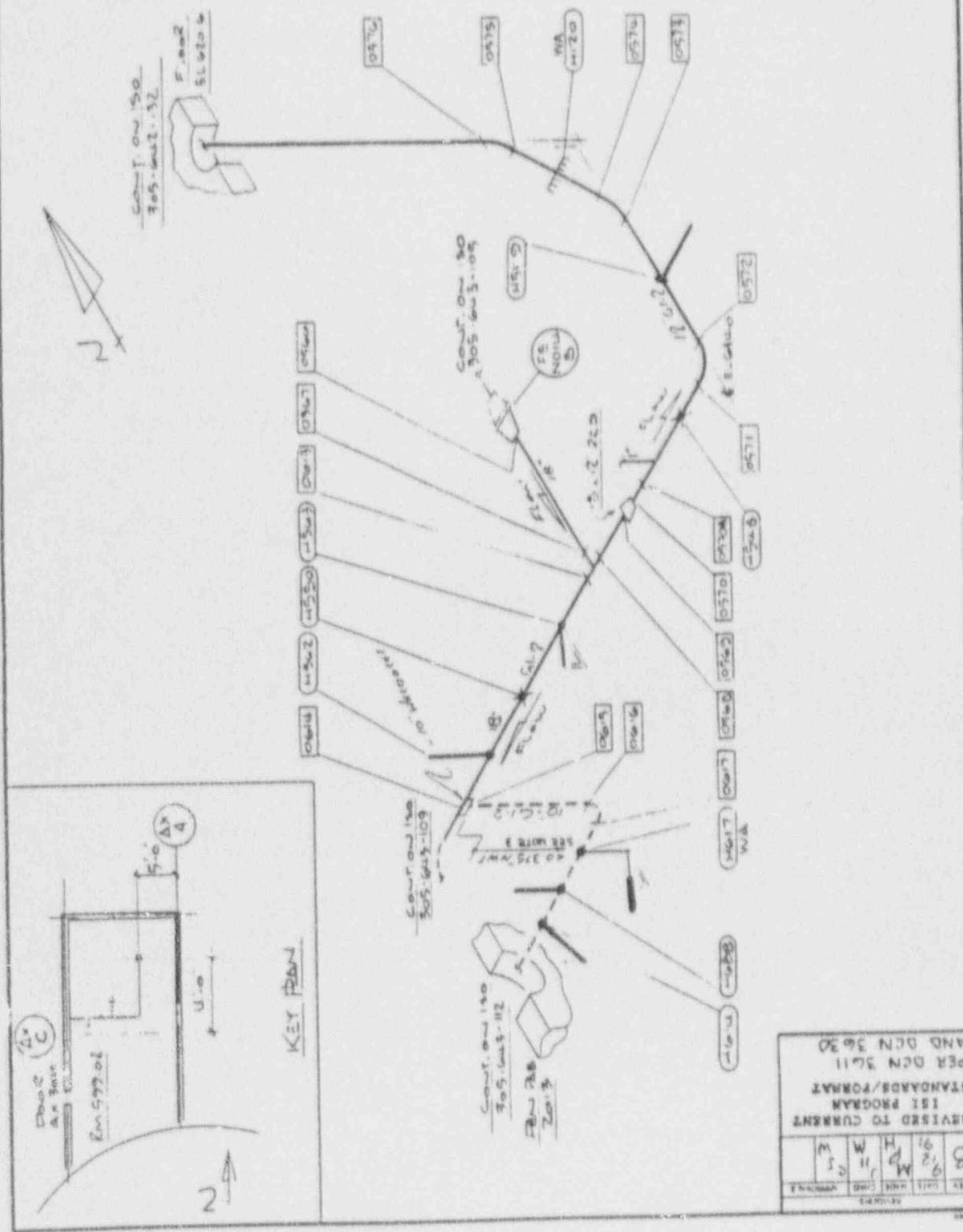
2 PS-1 03-12  
 15-1 012-012

3 WELDS AND SUPPORTS ON PIPING  
 LESS THAN 3/16" THICK DO NOT  
 REQUIRE INSERVICE  
 INSPECTION (CODE CASE 11408)

REF. DMG-  
 O-304-693

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

FOR DEVELOPER ELECTRIC SUPPLYING COMPANY	
Page No.	Sheet 1
CLASSIFICATION	
1	CLASSIFICATION
2	CLASSIFICATION
3	CLASSIFICATION
4	CLASSIFICATION
5	CLASSIFICATION
6	CLASSIFICATION
7	CLASSIFICATION
8	CLASSIFICATION
9	CLASSIFICATION
10	CLASSIFICATION
11	CLASSIFICATION
12	CLASSIFICATION

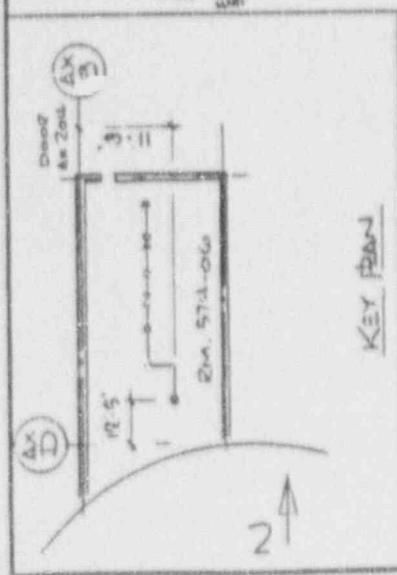
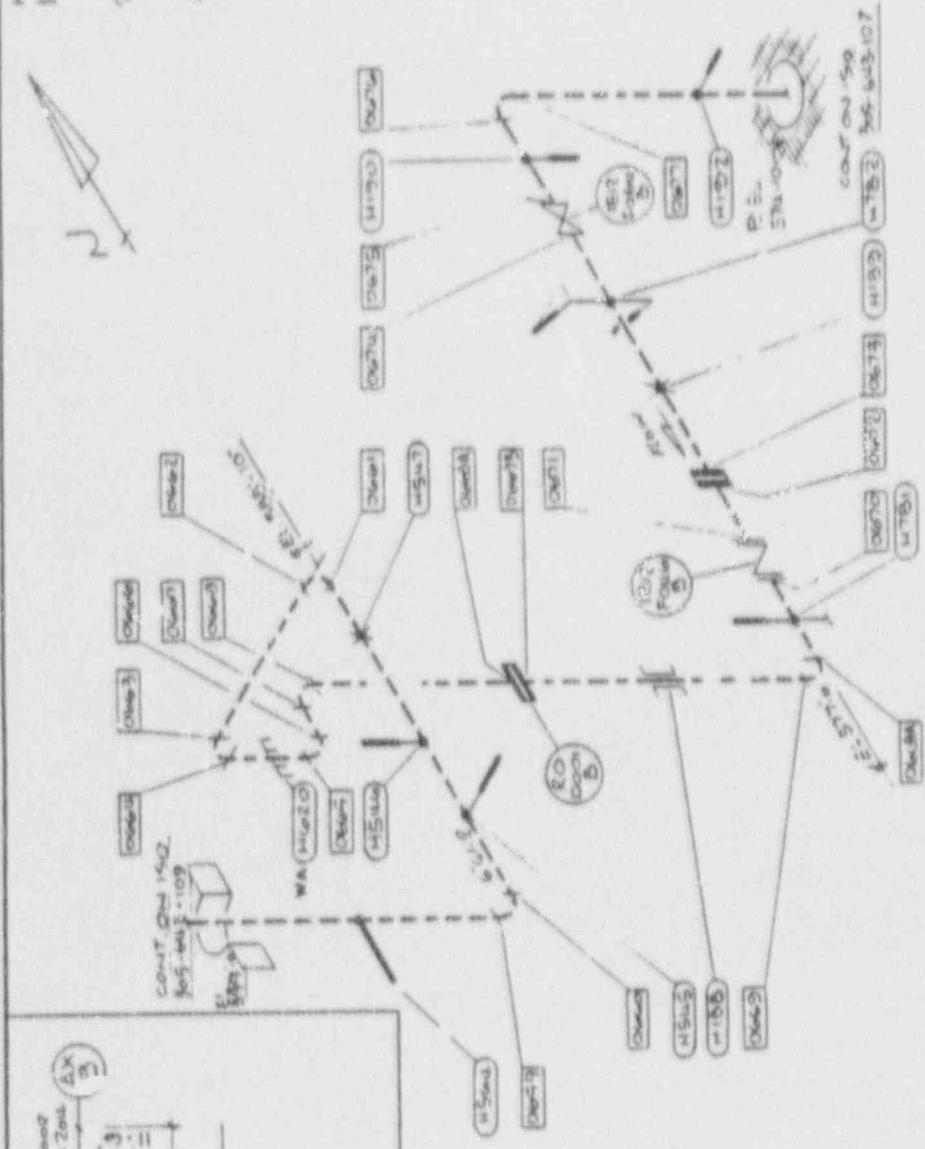


REVISED TO CURRENT IET PROGRAM STANDARDS/FORMAT PER DCN 3611 AND DCN 3630	DATE	BY
	01/26	M
	11/05	J
	08/11	H
	05/11	W
	01/11	W

- NOTE:
1. ALL PIPING ON THIS ISO IS CLASS 2
  2. P.S.I. 03-11  
I.S.I. 312.0-11
  3. ALL PIPING ON THIS ISO IS LESS THAN  
0.375" A.W.W. WELDS  
AND SUPPORTS ON THIS ISO DO NOT REQUIRE INSERVICE INSPECTION. (CODE CASE WA89)

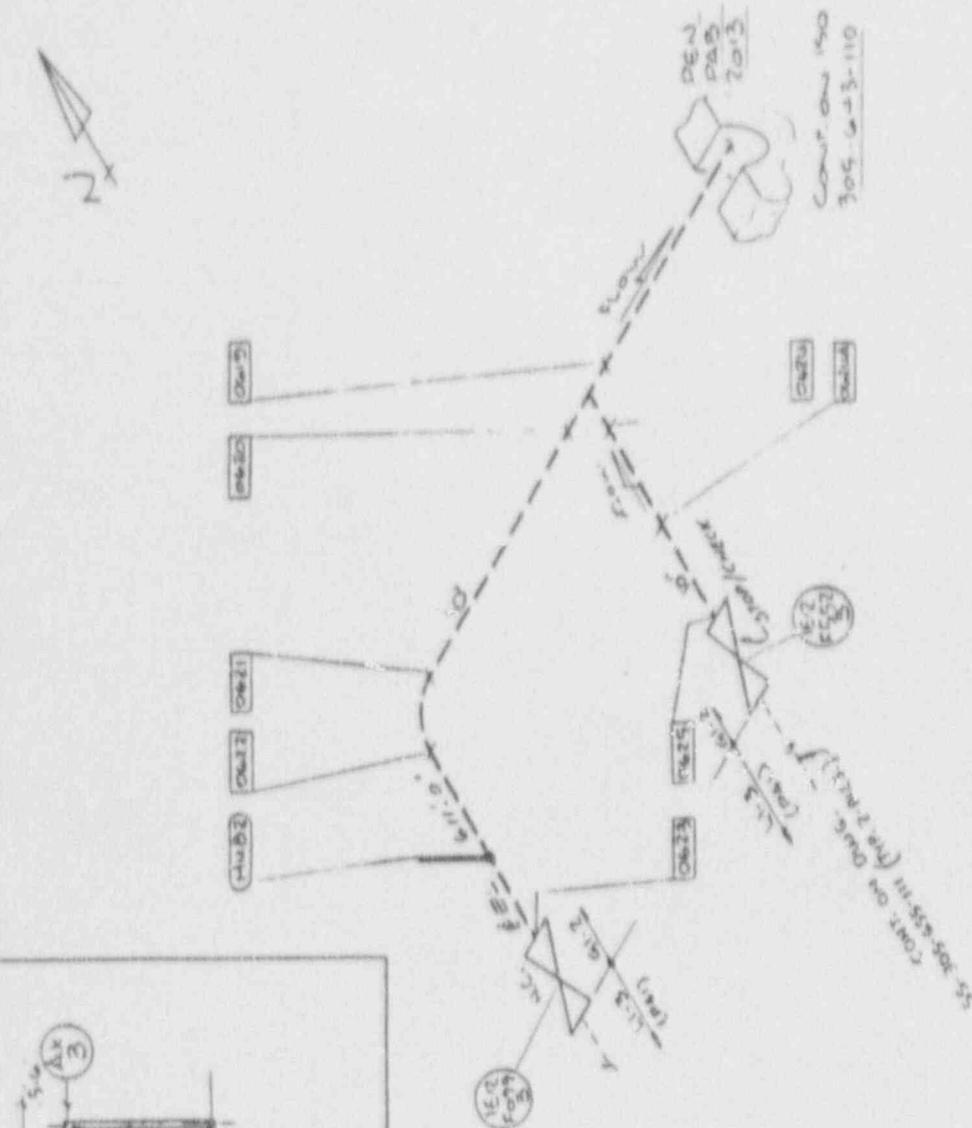
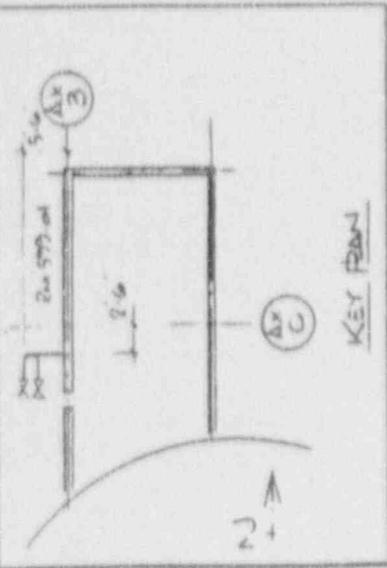
SEE ONLY  
D-207-41

NOTE: THIS DRAWING IS FOR  
ISS PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FACILITY INSTALLATION



THE FOLLOWING ELECTRIC ILLUMINATING FIXTURES	
Fixture Number	Power Point
151	ISO 50 GMS ER
152	ISO 50 GMS ER
153	ISO 50 GMS ER
154	ISO 50 GMS ER
155	ISO 50 GMS ER
156	ISO 50 GMS ER
157	ISO 50 GMS ER
158	ISO 50 GMS ER
159	ISO 50 GMS ER
160	ISO 50 GMS ER
161	ISO 50 GMS ER
162	ISO 50 GMS ER
163	ISO 50 GMS ER
164	ISO 50 GMS ER
165	ISO 50 GMS ER
166	ISO 50 GMS ER
167	ISO 50 GMS ER
168	ISO 50 GMS ER
169	ISO 50 GMS ER
170	ISO 50 GMS ER
171	ISO 50 GMS ER
172	ISO 50 GMS ER
173	ISO 50 GMS ER
174	ISO 50 GMS ER
175	ISO 50 GMS ER
176	ISO 50 GMS ER
177	ISO 50 GMS ER
178	ISO 50 GMS ER
179	ISO 50 GMS ER
180	ISO 50 GMS ER

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					



NOTE -  
 1. ALL PIPING ON THIS ISOS CLASS 2  
 2. PS: 03-12  
 3. ALL PIPING ON THIS ISOS CLASS 2  
 4. ALL PIPING ON THIS ISOS CLASS 2  
 5. ALL PIPING ON THIS ISOS CLASS 2  
 6. ALL PIPING ON THIS ISOS CLASS 2  
 7. ALL PIPING ON THIS ISOS CLASS 2  
 8. ALL PIPING ON THIS ISOS CLASS 2  
 9. ALL PIPING ON THIS ISOS CLASS 2  
 10. ALL PIPING ON THIS ISOS CLASS 2  
 11. ALL PIPING ON THIS ISOS CLASS 2  
 12. ALL PIPING ON THIS ISOS CLASS 2  
 13. ALL PIPING ON THIS ISOS CLASS 2  
 14. ALL PIPING ON THIS ISOS CLASS 2  
 15. ALL PIPING ON THIS ISOS CLASS 2  
 16. ALL PIPING ON THIS ISOS CLASS 2  
 17. ALL PIPING ON THIS ISOS CLASS 2  
 18. ALL PIPING ON THIS ISOS CLASS 2  
 19. ALL PIPING ON THIS ISOS CLASS 2  
 20. ALL PIPING ON THIS ISOS CLASS 2

REF DWG:  
 D-204-4A3

INTER-TRIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3111	DATE	BY	CHKD BY
	01/11/01	MD	MD

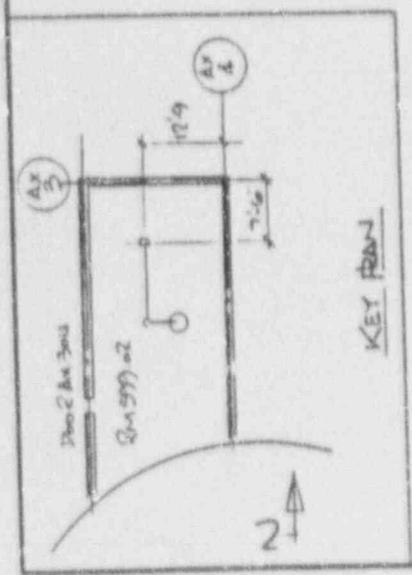
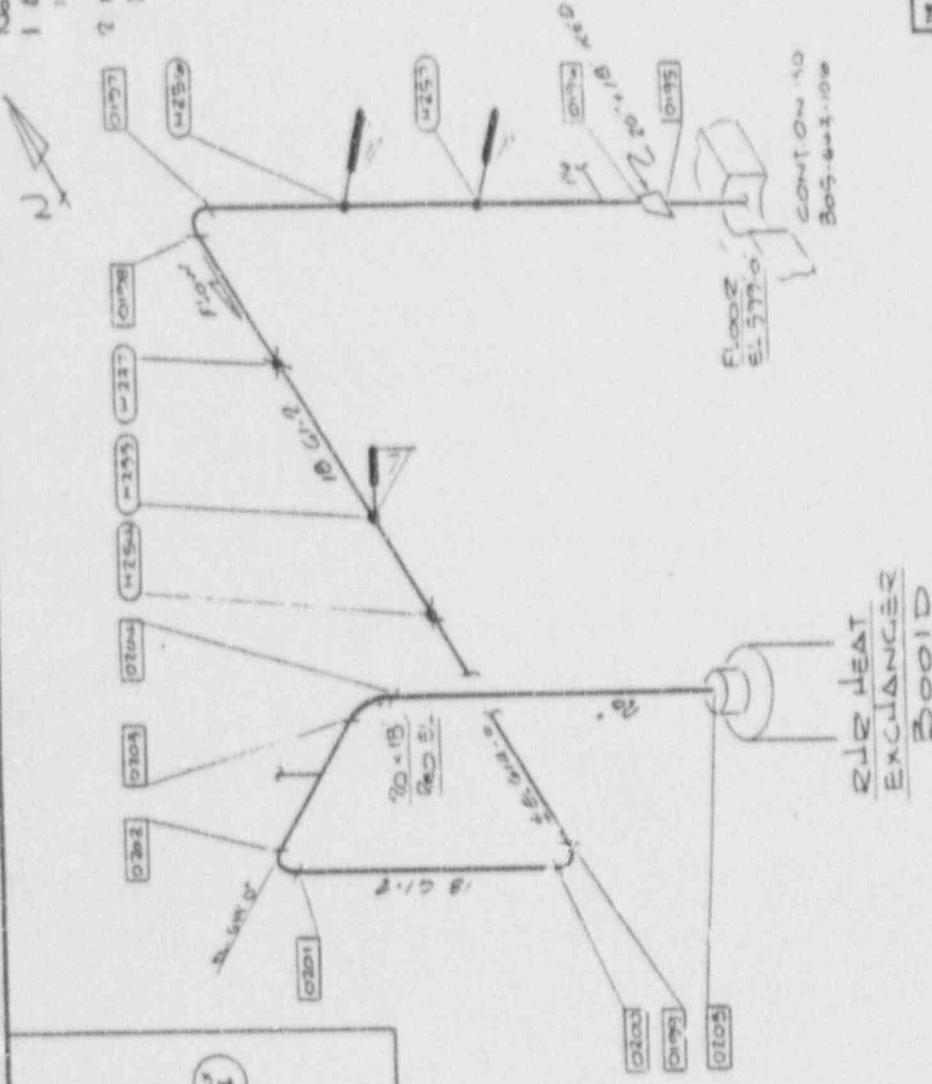
THE FOLLOWING ELECTRIC ILLUMINATING COMPANIES PARTY NUMBER FROM PLAN		DATE
ISI PIPING SO SYSTEM RESIDUAL HEAT REMOVAL LOOP 5 - AIA BLDG. 5L 570 - 6		01/11/01
NO.	DATE	BY
1	01/11/01	MD
2	01/11/01	MD
3	01/11/01	MD
4	01/11/01	MD
5	01/11/01	MD
6	01/11/01	MD
7	01/11/01	MD
8	01/11/01	MD
9	01/11/01	MD
10	01/11/01	MD
11	01/11/01	MD
12	01/11/01	MD
13	01/11/01	MD
14	01/11/01	MD
15	01/11/01	MD
16	01/11/01	MD
17	01/11/01	MD
18	01/11/01	MD
19	01/11/01	MD
20	01/11/01	MD

NOTE -  
 1 ALL PIPING ON THIS  
 IS 150 LB CLASS ?  
 ? PSI 03-14  
 150 LB 012-014

REF DWG  
 0-204-67

INTER-YEIL ORATING IS FOR  
 USE PRICEY USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE DUKING ELECTRIC ILLUMINATING COMPANY	
151 PIPING 150 LBS 57	
RESIDUAL HEAT REMOVAL	
COOLING AIR BLDG 21-579-0	
DATE	FOR M/A
BY	FOR M/A
NO.	FOR M/A
REV	FOR M/A
DATE	45305-113
BY	6



RUB HEAT  
 EXCHANGER  
 BOOID

REV	DATE	BY	CHKD	APP'D
1	16	M		
2	27	H		
3	27	M		

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3011

Note -  
 1 ALL PIPING ON THIS 150 IS CLASS 2  
 2 P-5-I 03-18  
 1-5-1 E12-014  
 3 WELDS AND SUPPORTS ON PIPING LESS THAN 3/16" THICK DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE NA08)

REF Dwg  
 D-3044-6A

NOTE: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

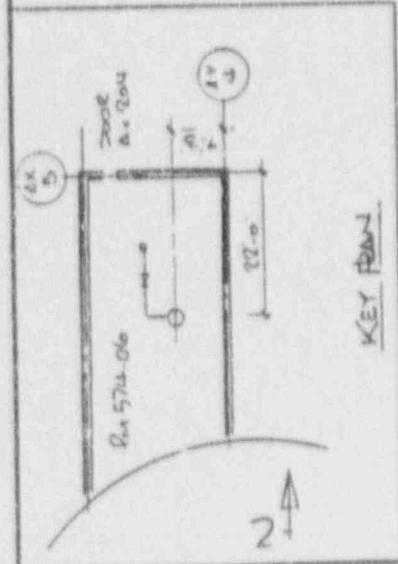
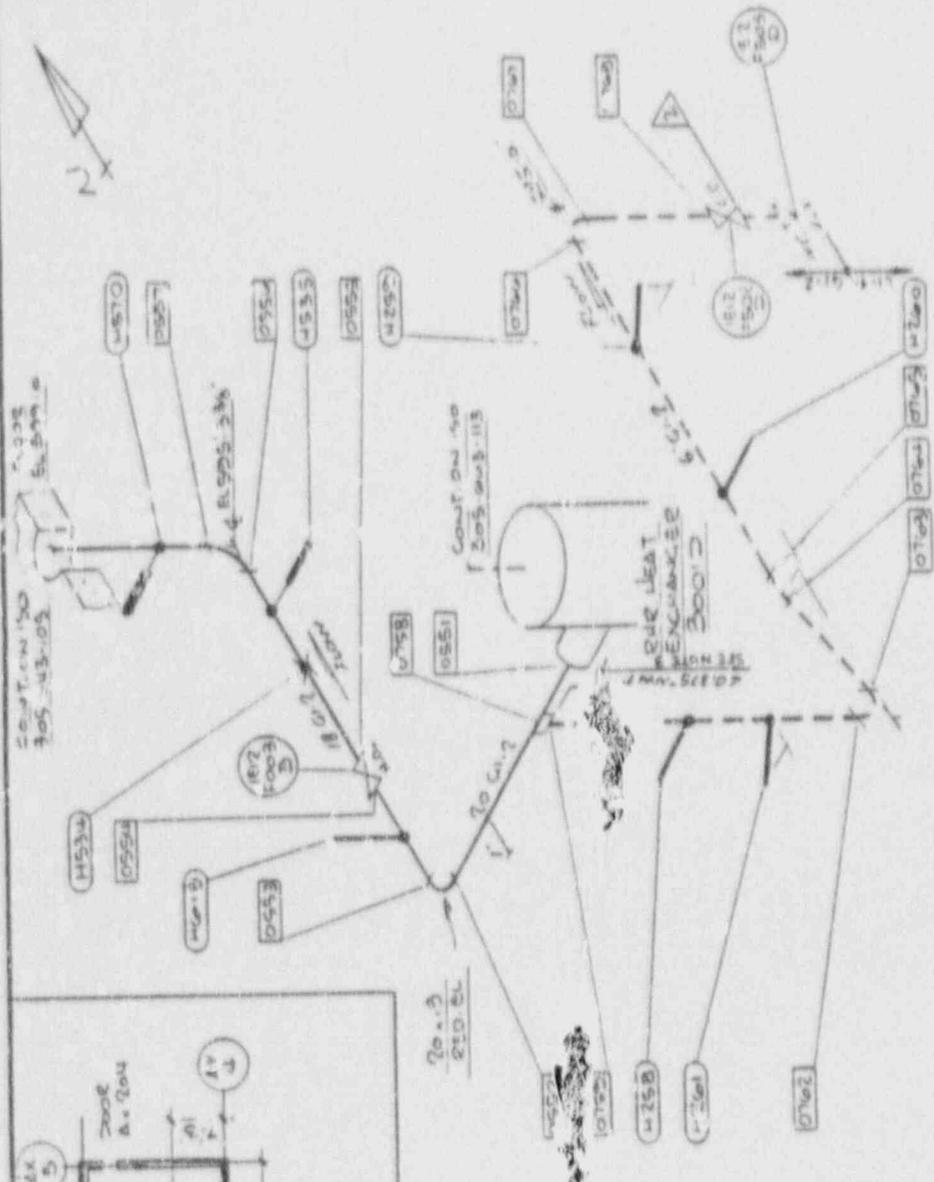
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 1515 North Park Road  
 CLEVELAND, OH 44115

151 PIPING 50 WPS E12  
 RESIDUAL HEAT REMOVAL

Loop # 101 201 301 401 501 601 701 801 901 1001

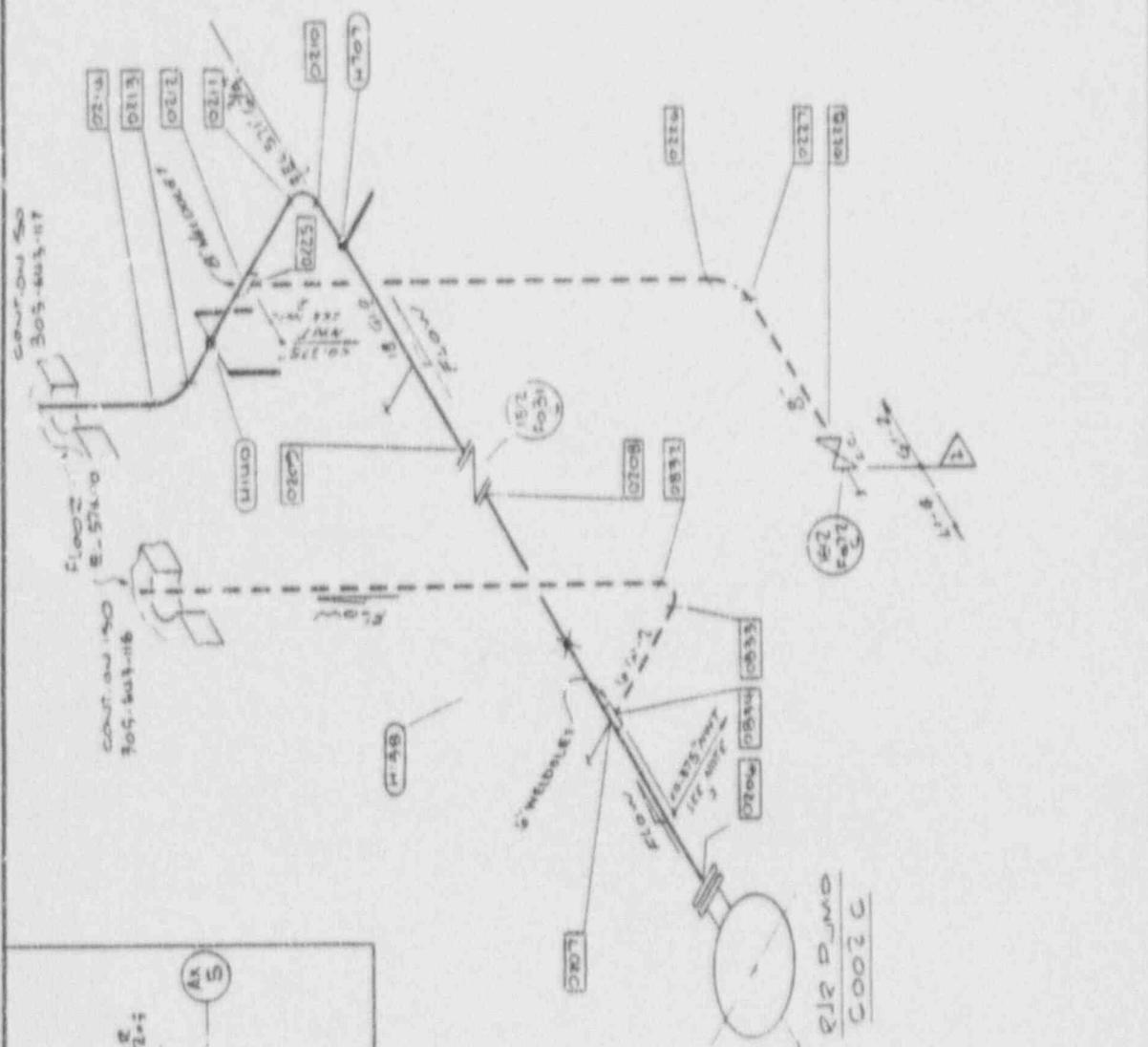
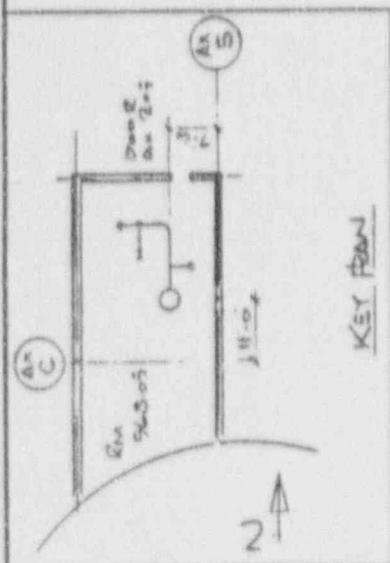
DATE	BY	CHK	APP
10/1/80	JL	JK	M/A
10/1/80	JL	JK	M/A
10/1/80	JL	JK	M/A

TOTAL SHEETS 65  
 SHEET NO. 3-116



REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542

DATE	BY	CHK	APP
10/1/80	JL	JK	M/A
10/1/80	JL	JK	M/A
10/1/80	JL	JK	M/A



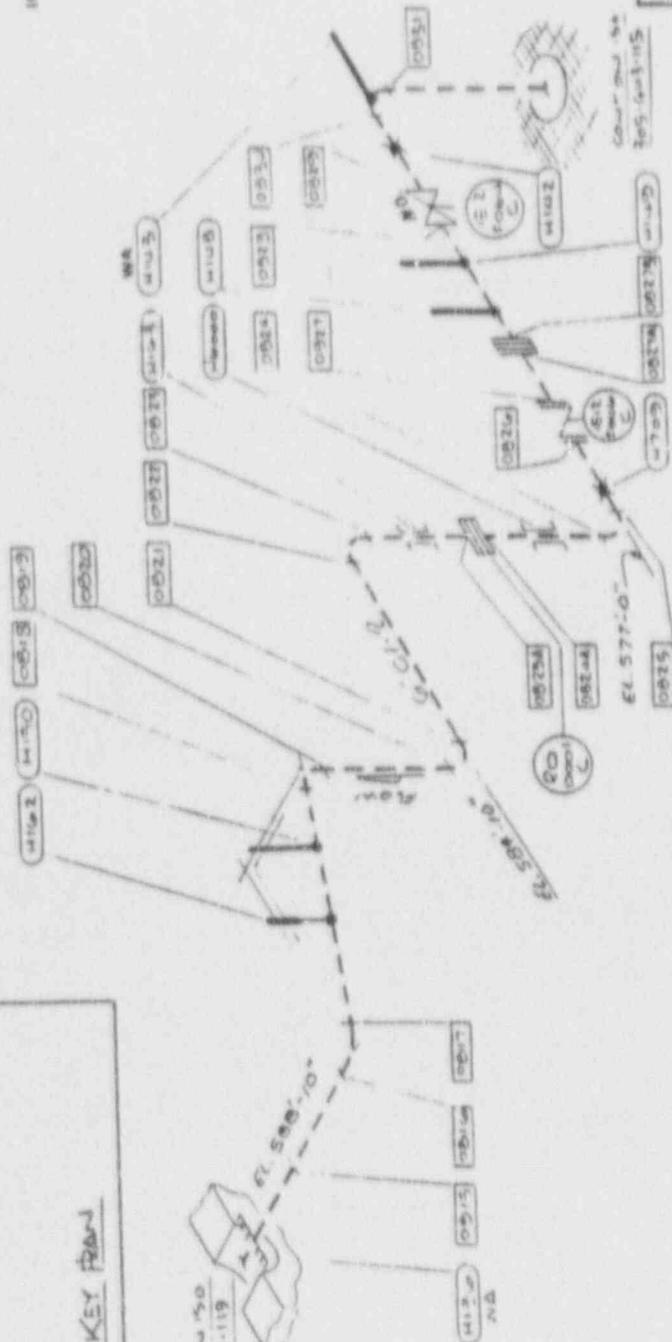
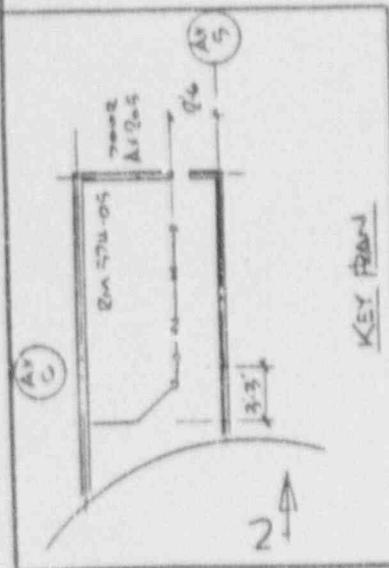
NOTE:  
 1 ALL PIPING ON THIS IS CLASS 2  
 2 PSI @ 100  
 3 BELLS AND SUPPORTS ON PIPING LESS THAN .125" THICK DO NOT REQUIRE INSERVICE INSPECTION (USE CASE HISTORY)

REF. DNG  
 D-204-6-41  
 WELDING SHALL BE PER  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	
ISI PIPING RESIDUAL HEAT REMOVAL	
LOOP C AUX. SUBS. EL. 305-115	
DATE	11/11/83
BY	WJA
CHECKED	WJA
APPROVED	WJA
SCALE	AS SHOWN
PROJECT NUMBER	45-305-647-115
REV.	0

REVISED TO CURRENT STANDARDS/FORMAT	DER DCN 3542
DATE	11/11/83
BY	WJA
CHECKED	WJA
APPROVED	WJA

- NOTE -
1. ALL PIPING ON THIS 150 IS CLASS 2
  2. PSI 03-16  
15.1 ERT-016
  3. ALL PIPING ON THIS 150 IS LESS THAN 0.375" MWT. WELDS AND SUPPORTS ON THIS PIPING DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE M408)



REF 0416  
DCN 1691

NOTE: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE GEORGIA ELECTRIC ILLUMINATING COMPANY	
Pacifi-Nuclear Power Plant	
[5] PIPING 150 375 ERT	
RESIDUAL HEAT REMOVAL	
100% AIR BLOW EL 574'-0	
DATE	10/2/77
BY	JHE
CHECKED	N/A
APPROVED	N/A
SCALE	AS SHOWN
PROJECT	552-5-403-116
REV	B
DATE	10/2/77

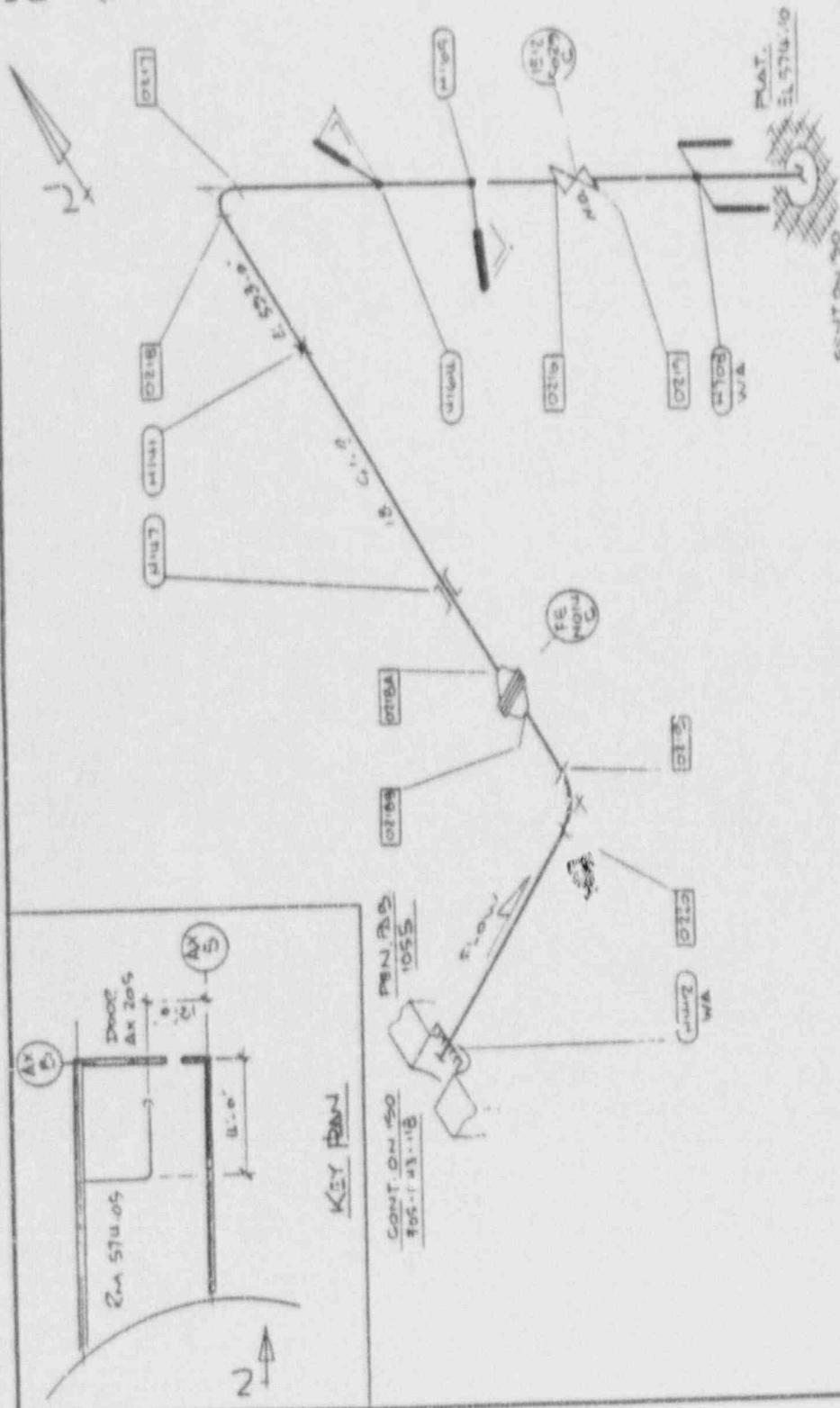
REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCN 3611 AND DCN 3630	
DATE	10/2/77
BY	JHE
CHECKED	N/A
APPROVED	N/A
SCALE	AS SHOWN
PROJECT	552-5-403-116
REV	B
DATE	10/2/77

NOTE:  
 1 ALL PIPING ON THIS  
 IS CLASS 2  
 2 PSI @ 7.14  
 15.1 ER-014

REF DWG  
 D-204-2-1

WATER-RESISTANT DRIFTING IS FOR  
 IS1 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NO.	DATE	BY	CHKD	REVISION
1				
2				
3				
4				
5				



CONST. ON 500  
 Bot. out. 115

REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3111					
DATE	BY	CHKD	APP'D	SCALE	NO.
11/22/81	B.M.	H.L.			1

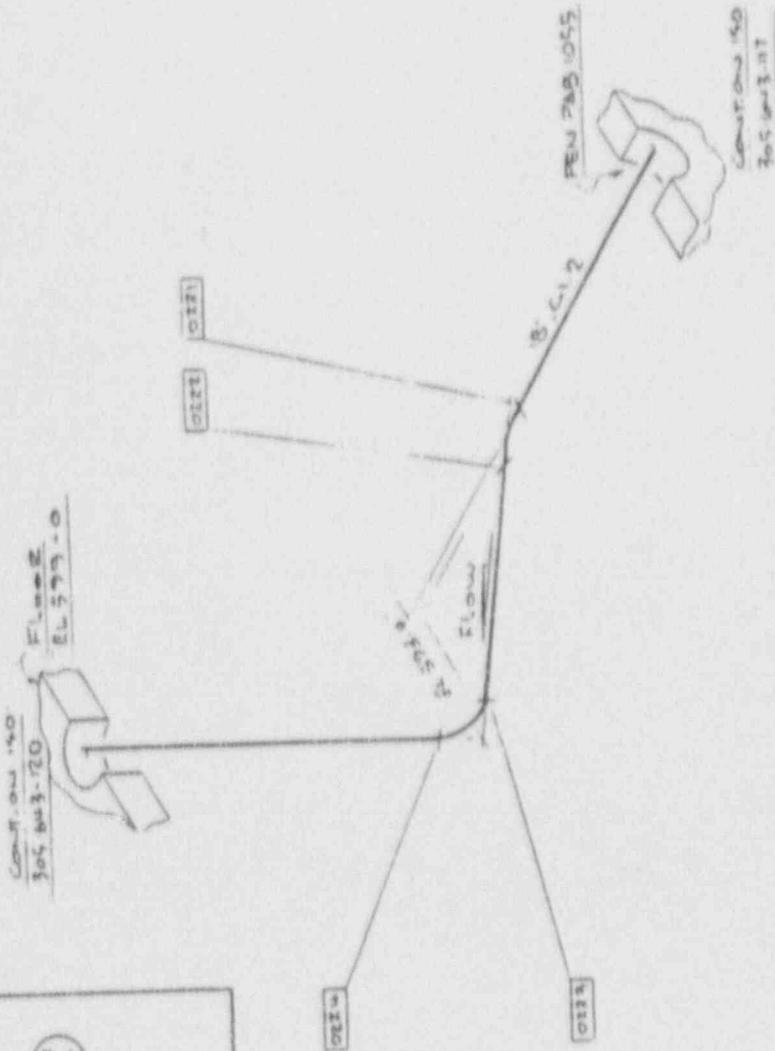
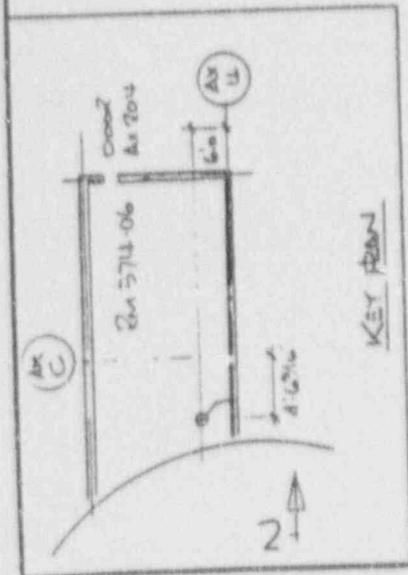
Note -

1 ALL PIPING ON THIS

150 IS CLASS ?

? PSI 03.16

151 212-016



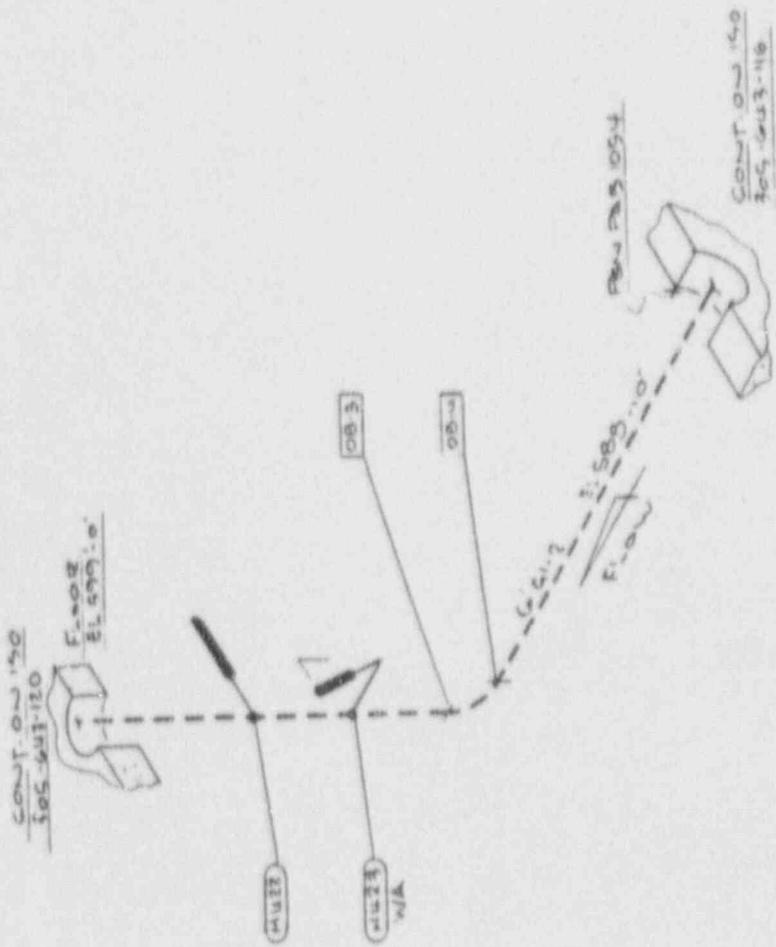
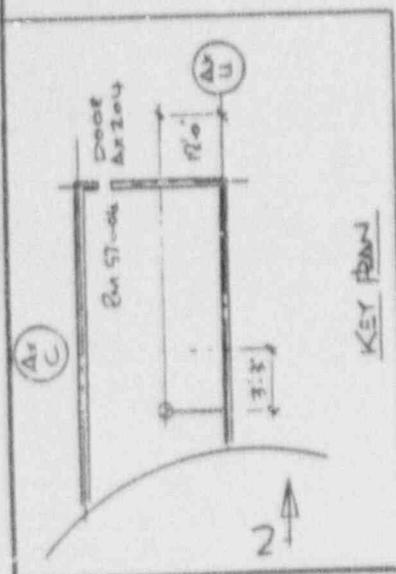
REF DWG:  
D-309-481

NOTES: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLERMONT ELECTRIC ILLUMINATING COMPANY		JUL 11	
1000 North Street		JUL 11	
151 PIPING 150 3MB 571		151 PIPING 150 3MB 571	
REQUAL HEAT REMOVAL		REQUAL HEAT REMOVAL	
LOOP 'C' AIR BUILD 515-0		LOOP 'C' AIR BUILD 515-0	
DATE: 7/11/11		DATE: 7/11/11	
BY: JLB		BY: JLB	
CHECKED: JLB		CHECKED: JLB	
DATE: 7/11/11		DATE: 7/11/11	
PROJECT NO: 45305-603-115		PROJECT NO: 45305-603-115	
PAGE: 2		PAGE: 2	

REVISED TO CURRENT 151 PROGRAM STANDARD/FORMAT			
REV	BY	DATE	DESCRIPTION
1	JLB	7/11/11	151 PIPING 150 3MB 571
2	JLB	7/11/11	REQUAL HEAT REMOVAL
3	JLB	7/11/11	LOOP 'C' AIR BUILD 515-0

NOTE -  
 1. ALL PIPING ON THIS  
 150 IS CLASS 2  
 2. PSI 03-16  
 15.1 212-016  
 3. ALL PIPING ON THIS  
 150 IS LESS THAN  
 0.375" MIN. THICKNESS  
 AND WELDS ON THIS PIPING  
 DO NOT REQUIRE INSERVICE  
 INSPECTION (CODE CASE N480)



REF. DWG  
 D-209-691

NOTE: THIS DRAWING IS FOR  
 150 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE GEORGE ELECTRIC ILLUMINATING COMPANY Plant and Shop Plans	
150 PIPING 150 3MS EIT	
RESIDUAL HEAT DEMAND	
LUMENS: 100,000 21,570 10	
DATE	10/1/54
BY	J. W. H. / M. A.
CHECKED	J. W. H. / M. A.
SCALE	AS SHOWN
PROJECT NO.	45-209-119
REV.	1

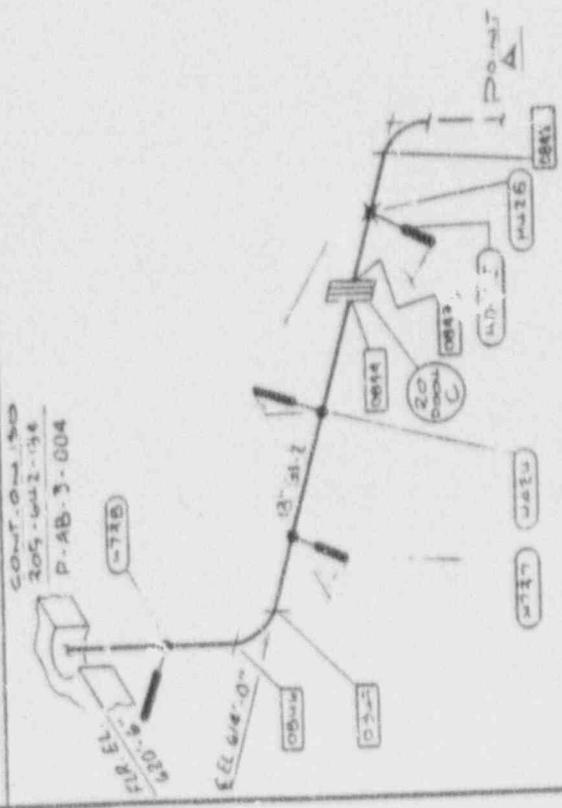
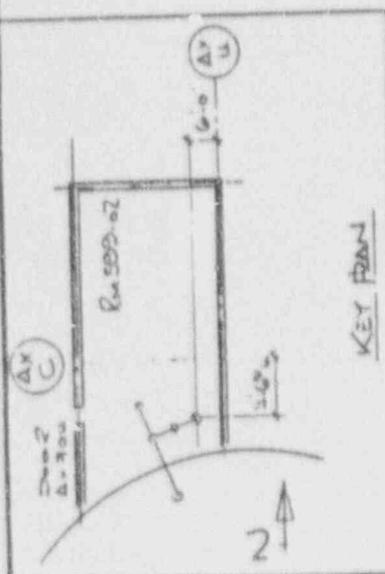
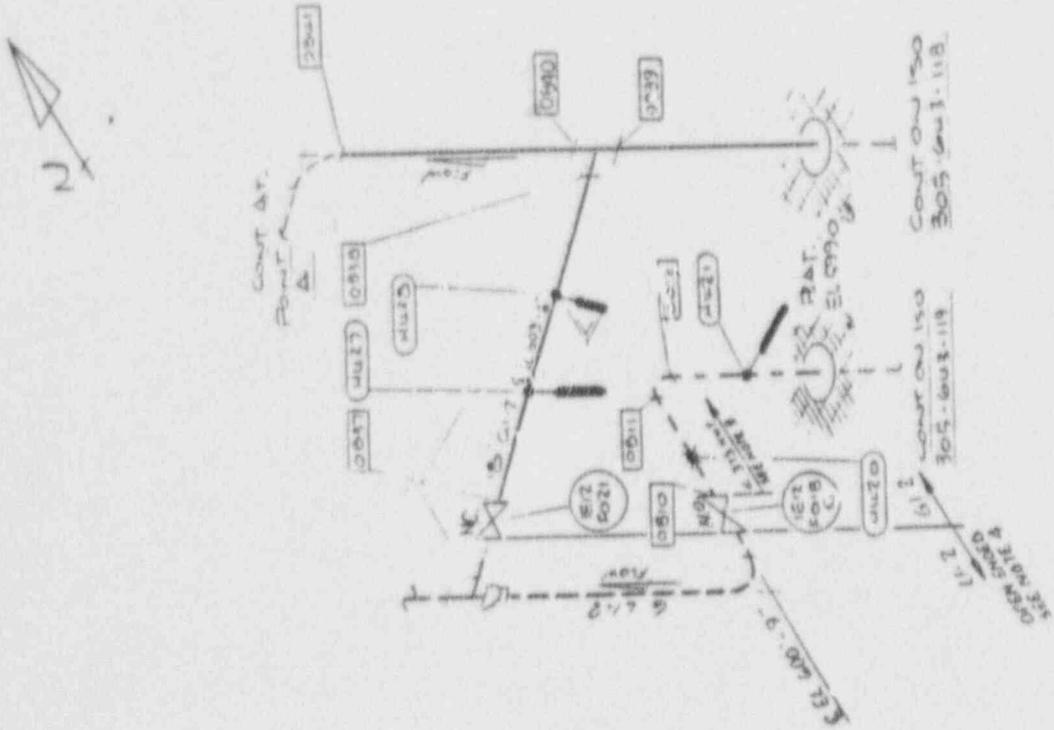
NO.	DATE	BY	REVISION
1	10/1/54	J. W. H.	REVISED TO CURRENT STANDARDS/FORMAT
2	10/1/54	M. A.	PER DCN 3011

- NOTE -
- 1) ALL PIPING ON THIS 150 IS CLASS 2
  - 2) P.S.I 03-17  
15.1 E12-017
  - 3) WELDS AND SUPPORTS ON PIPING LESS THAN 3/8" THICK DO NOT REQUIRE INSERVICE INSPECTION.  
(CODE CASE M408)
  - 4) EXEMPT PER C.C-408.

SEE DWG  
3204-641

REVISIONS DRAWING IS FOR  
ISI PROGRAM FOR WELT AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE FOLLOWING DRAWING IS THE PROPERTY OF Perry Nuclear Power Plant	
CLASSIFICATION	ISI PIPING 150 CLASS 2
REVISIONS	RESIDUAL HEAT EXCHANGER
LOOP	C-AUX B.D. 5.1
DATE	
BY	JK
CHK	N/A
APP	1/1-1/1/83
NO.	45305-413-120
REV	



REV	DATE	BY	CHK	APP
1	9/19/83	M	H	
2				
3				
4				

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

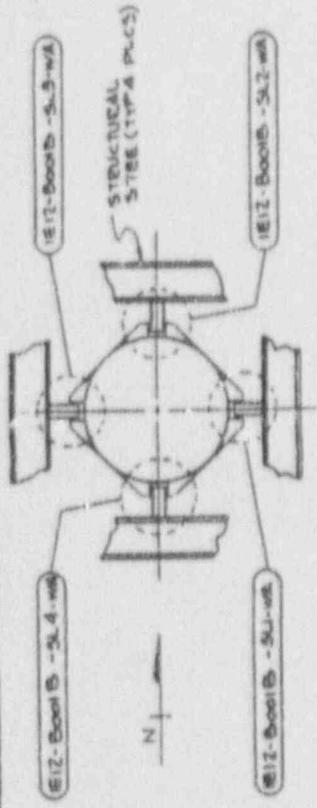
NOTE:

1. ALL PIPING ON THIS DWG. IS CLASS 2
2. PSI 03-21A  
151 E12-022
3. REF DWGS: D-512-C23  
D-512-028

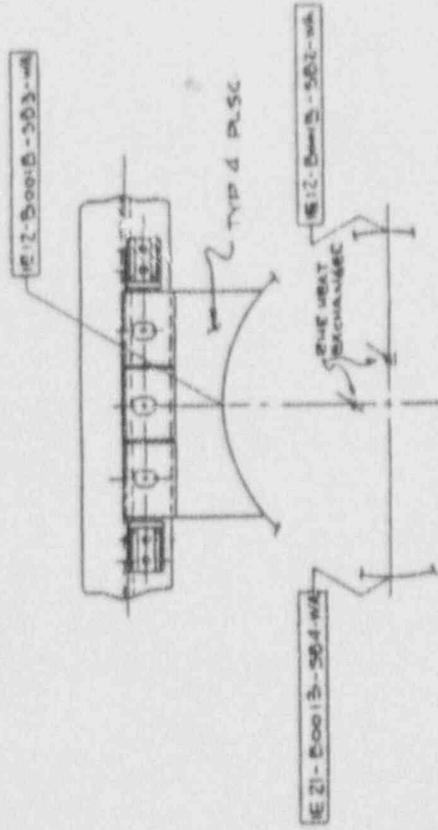
REF DWG:  
D-304-641  
D-304-643

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

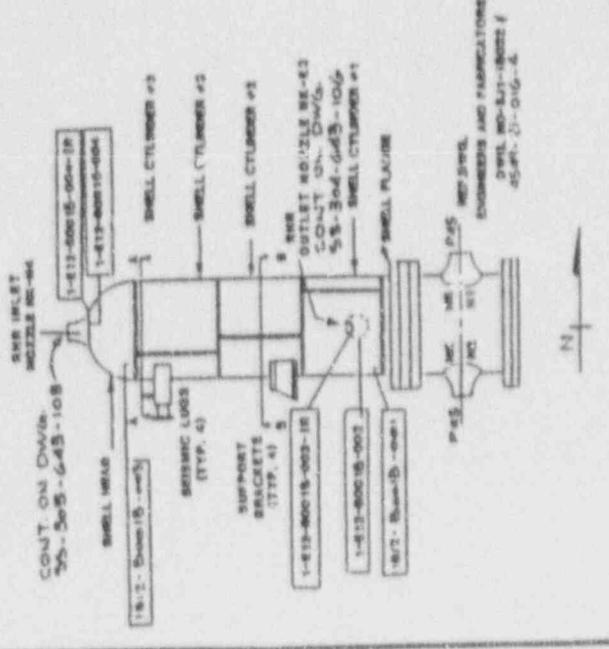
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Heavy Machine Shop Plans			
No. 1			
ISI PIPING DWG SYS: E12			
RWR HEAT EXCHANGER			
# B0015 LOOP B			
DATE	REVISION	APPROVED	
DATE	BY	DATE	BY
SCALE			AS SHOWN
JOB NO.			55 305-643-111
DRAWN BY			10



VIEW A-A



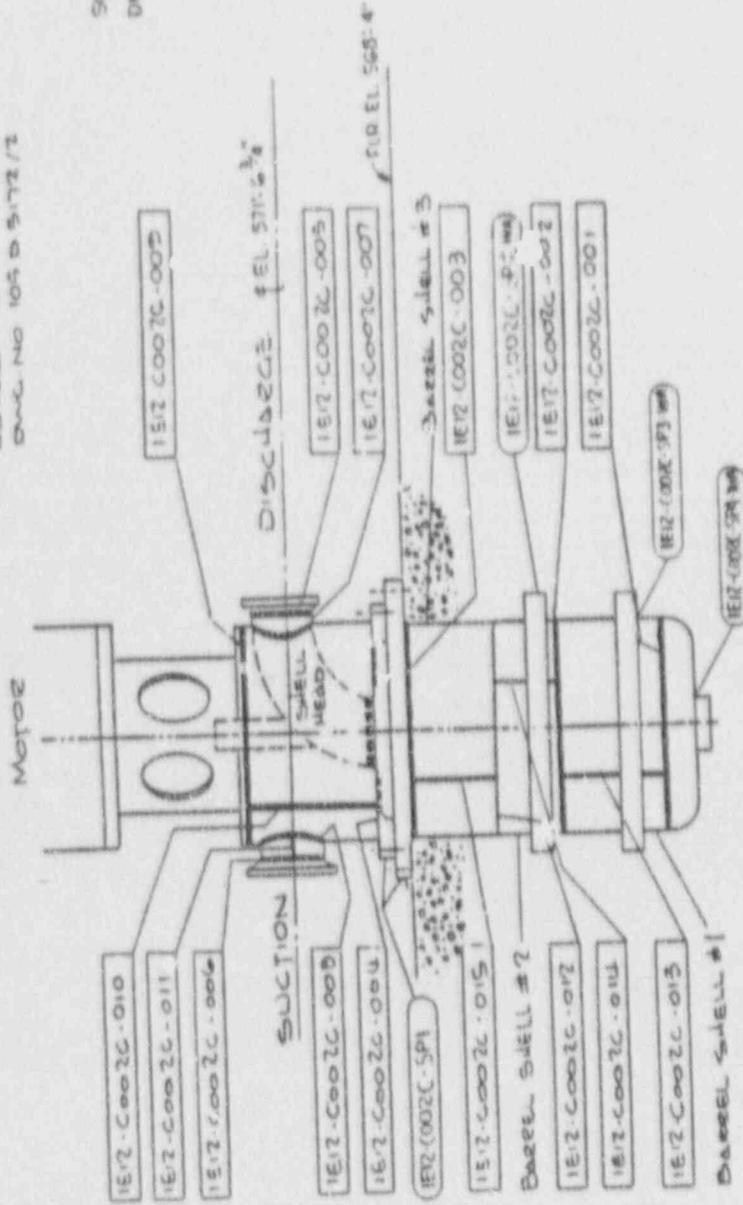
VIEW B-B



REVIEW TO CHECK		
DATE	BY	CHK
PER DCN 3011		
STANDARD/FORMAT		
ISI PROGRAM		

Notes:  
 1. ALL WELDS ON THIS NO IS CLASS 2  
 2. PS-I 03-73A  
 ISI 187-027  
 3. REF. PIPING ISO:  
 SUCT. SS-305-642-111  
 DISCH. SS-305-642-115

REF DWGS.  
 BRZON JACKSON PUMP'S  
 SECTIONAL DWG. 1E-7030/B  
 GENERAL ELECTRIC CO.  
 DWG NO 10505172/2



REF DWG  
 D-204-1-41

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Part Number		Year	Sheet
151 PUMP DWG. 544E12			
202 PUMP #C002C			
LOOP "C" WELD ATTACHMENTS			
REV	DATE	BY	CHK
1	10/1/73	WJH	N/A
2	10/1/73	WJH	N/A
3	10/1/73	WJH	N/A
4	10/1/73	WJH	N/A
PROJ NO: 56305-642-112		SHEET NO: 12	

REVISIONS TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3611



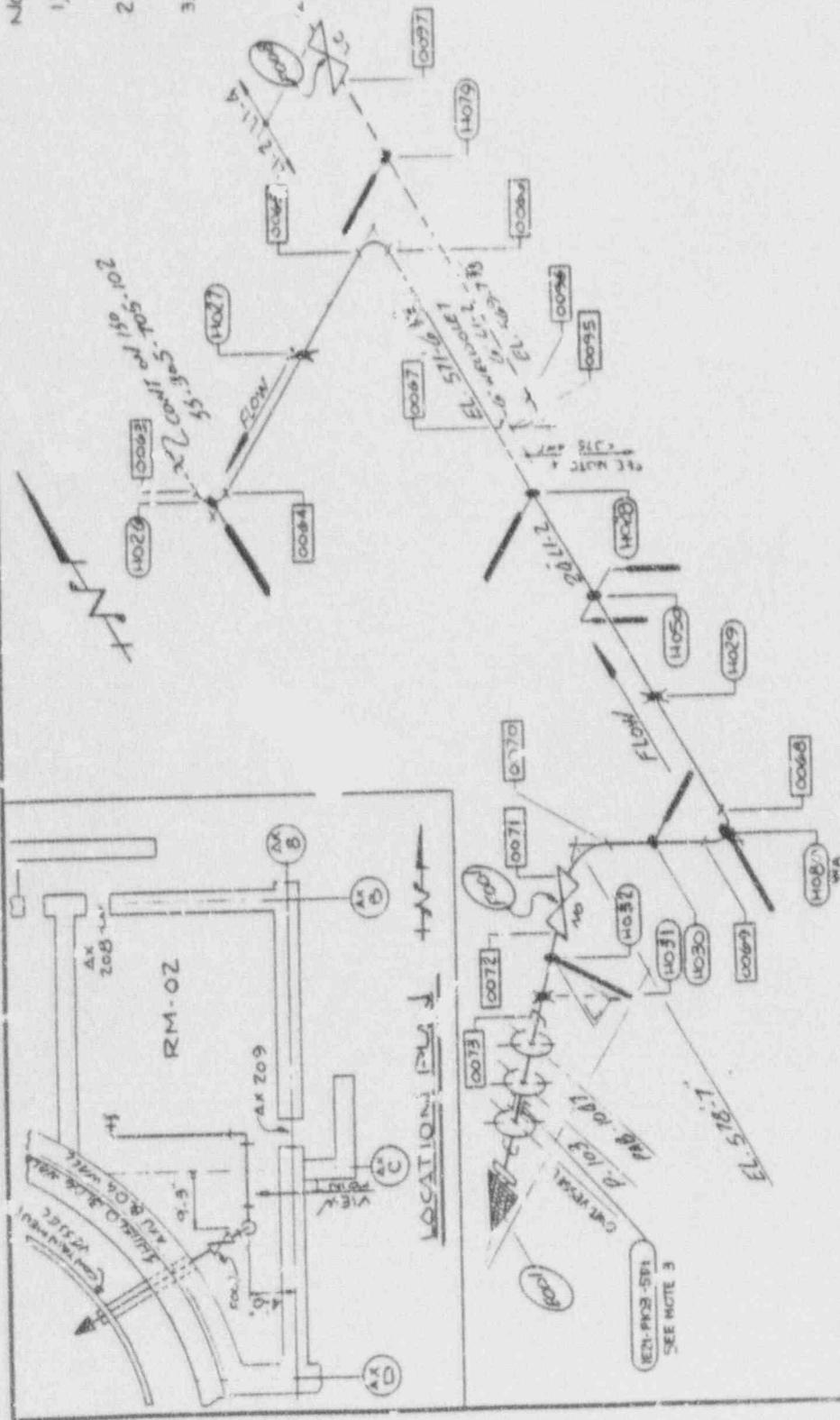
NOTES:

- 1) ALL PIPING OUT THIS 150 IS CLASS 2
- 2) PSI 04-01 151-E21-001
- 3 THIS SUPPORT IS INSIDE PERI. GUARD AND IS THEREFORE INACCESSIBLE FOR EXAMINATION
- 4 SUPPORTS AND WELDS ON PIPING LE 3 THIN .315" THICK DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE N468)

REF. DWG.  
D-304-705

INSTRUMENT DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name	151-PH-150
Sheet No.	515-E21
Scale	LOW PRESSURE CORE SPRAY
Drawn By	AUX BLDG. EL. 578-10
Checked By	
Approved By	
Date	11-1-77
Project No.	151-E21-001
Sheet No.	101
Scale	



REVISED TO CURRENT	PER DCN 3542		
STANDARDS/FORMAT			
151 PROGRAM			
REVISIONS			
NO.	DATE	BY	CHKD.
1	11/1/77	WJA	
2			
3			
4			
5			

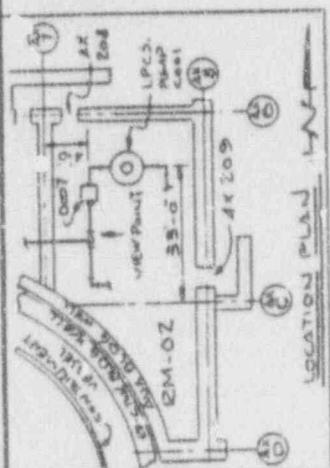
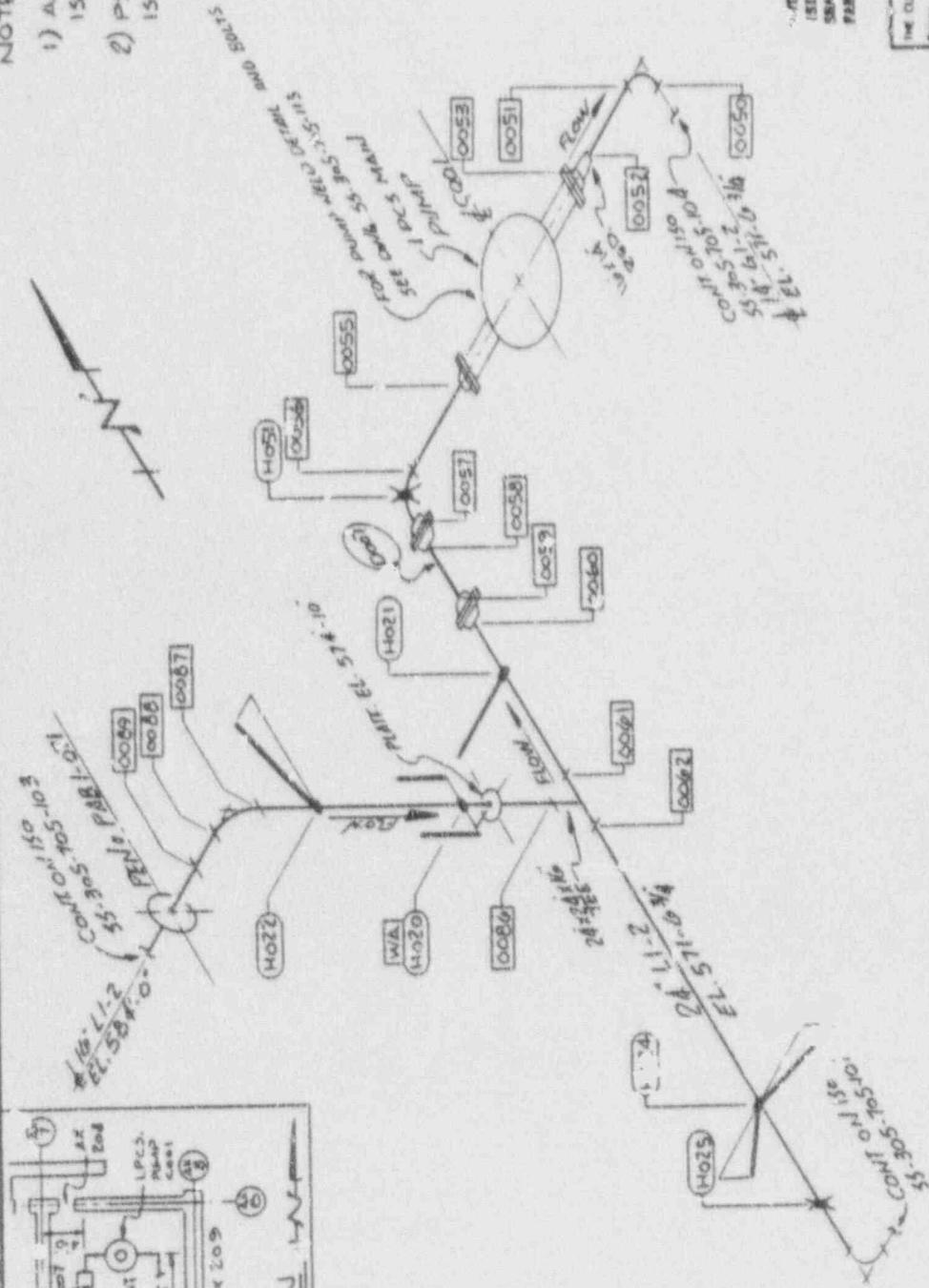
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS '2'
- 2) PSI 04-01 / PSI 04-02 151-E21-001 / 151-E21-002

REF DWG  
D-304-705

THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-705-102
SHEET	1
151 PIPING 150	575: E21
LOW PRESSURE CORE SPRAY	
AUX BLDG PL EL 574-10	
DATE	10/11/84
BY	CAF
CHECKED	N/A
SCALE	N/A
DATE	55-305-705-102
BY	



REVISED TO CURRENT	ISI PROGRAM	STANDARDS/FORMAT	PER DCN 3612
DATE	BY	CHKD	APPV
10/11/84	CAF	CAF	CAF

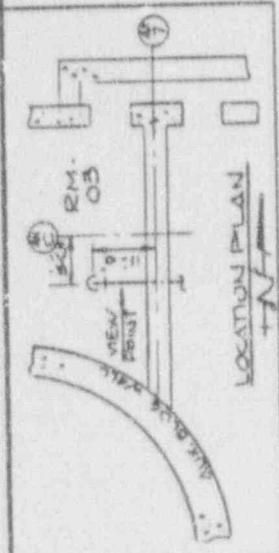
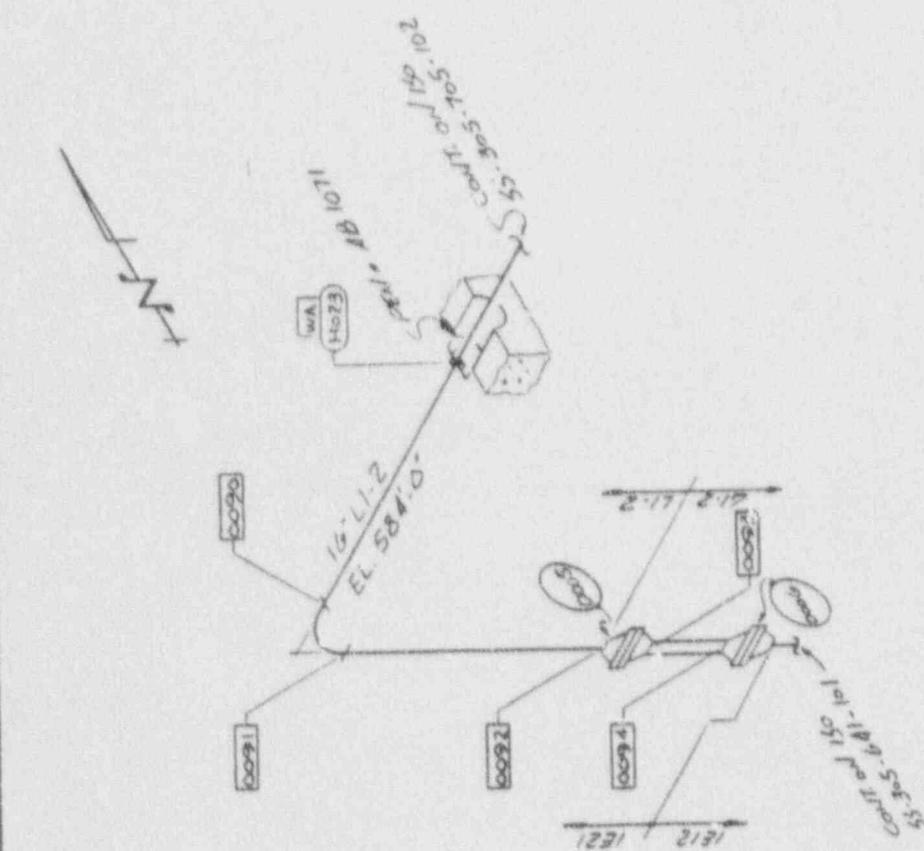
NOTES:

- 1) ALL PIPING ON THIS  
150 IS CLASS 2
- 2) PSI 04-01  
151-EZ1-001

REF DWG  
D-204-705  
D-304-706

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

AVIARD ELECTRIC ILLUMINATING COMPANY		DATE	1/2
PARTY NAME: Power Plant		SCALE	1/2" = 1'-0"
NO.	DESCRIPTION	DATE	
151	PIP-N36 150	5/5	EZ1
LOW PRESSURE CORE SPRAY			
AUX BLDG FL EL 57A-10			
REV	BY	CHKD	DATE
1	WJ	N/A	1/16
2	WJ	N/A	1/16
3	WJ	N/A	1/16
4	WJ	N/A	1/16
5	WJ	N/A	1/16
6	WJ	N/A	1/16
7	WJ	N/A	1/16
8	WJ	N/A	1/16
9	WJ	N/A	1/16
10	WJ	N/A	1/16
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97	WJ	N/A	1/16
98	WJ	N/A	1/16
99	WJ	N/A	1/16
100	WJ	N/A	1/16



REV	DATE	BY	CHKD	DESCRIPTION
1	01/20/91	M	H	REVISION
2	01/20/91	J	H	REVISION
3	01/20/91	M	H	REVISION
4	01/20/91	J	H	REVISION
5	01/20/91	M	H	REVISION
6	01/20/91	J	H	REVISION
7	01/20/91	M	H	REVISION
8	01/20/91	J	H	REVISION
9	01/20/91	M	H	REVISION
10	01/20/91	J	H	REVISION
11	01/20/91	M	H	REVISION
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13	01/20/91	M	H	REVISION
14	01/20/91	J	H	REVISION
15	01/20/91	M	H	REVISION
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45	01/20/91	M	H	REVISION
46	01/20/91	J	H	REVISION
47	01/20/91	M	H	REVISION
48	01/20/91	J	H	REVISION
49	01/20/91	M	H	REVISION
50	01/20/91	J	H	REVISION

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3612

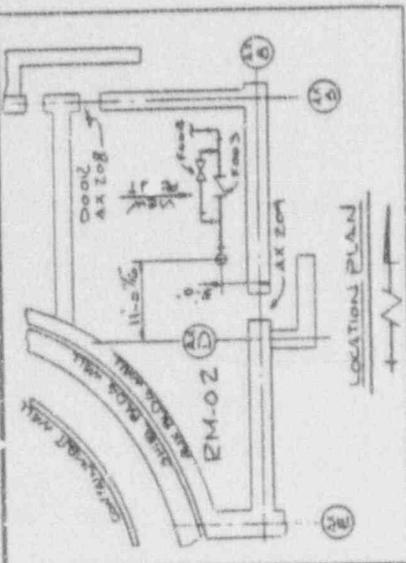
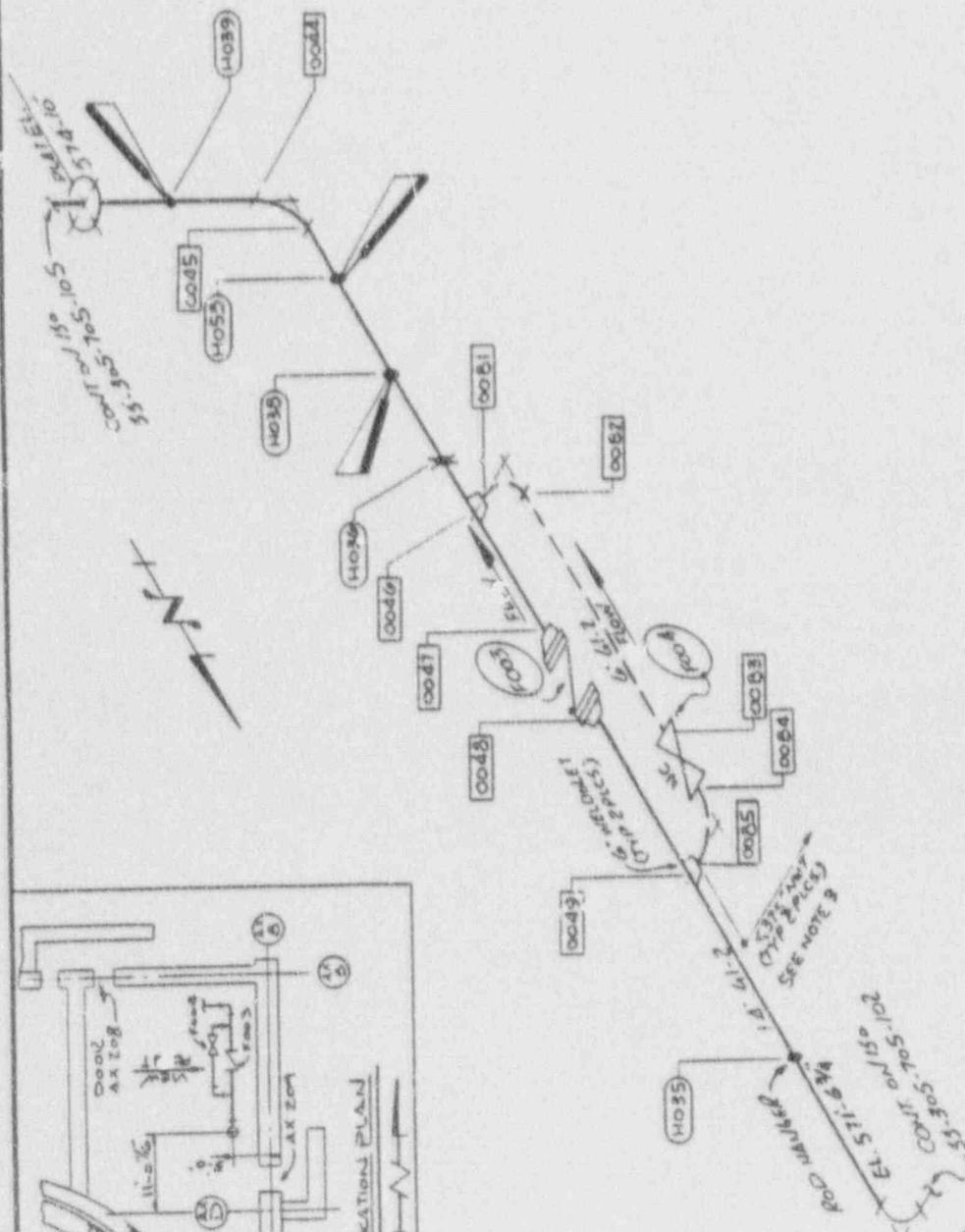
**NOTES:**

- 1) ALL PIPING ON THIS IS 150 IS CLASS 2"
- 2) PSI 04-02  
151-E21-002
- 3) WELDS AND SUPPORTS ON PIPING LESS THAN .375" THICK DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE WA08)

REF DWG  
D-309-705

REFER THIS DRAWING TO THE ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	Sheet 1
151 PIPING ISO	SY5: E21
LOW PRESSURE CORE SPRAY	
AUX BUILDING EL. 574.10	
DATE	REVISIONS
BY	APP'D
7/1	11/18
DATE	SYMBOL
55-305-705-104	B
REV. 21	ISSUE NUMBER



REVISED TO CURRENT STANDARDS/FORMATS PER DCN 3612		
DATE	BY	APP'D
91	H	H
20	S	S
1	E	E
1	C	C
1	E	E
1	C	C
1	E	E



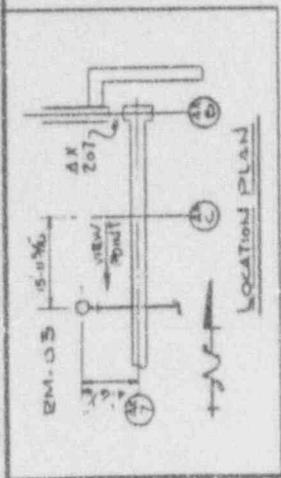
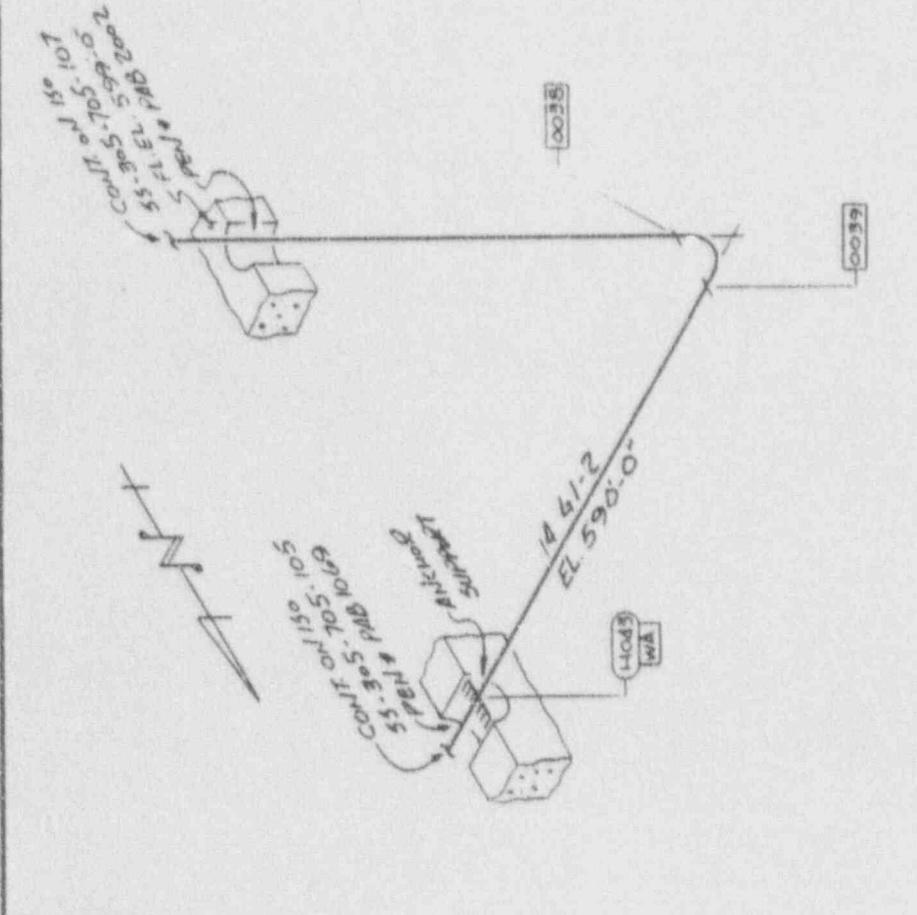
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS '2'
- 2) PSI 04-02  
151-E21-002

SEE DWG  
D-504-705

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATOR/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Electric Power Plant	Sheet 1
151 PIPING 150 SYS: E21	
LOW PRESSURE CORE SPRAY	
AUX BLDG FL EL. 574'-0"	
DATE	DR
DATE	CHK
DATE	APP
DATE	BY



REVISED TO CREDIT			
STANDARDS/FORMAT			
PER DCN 3612			

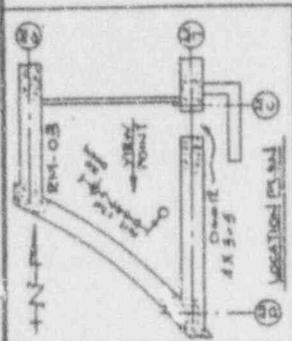
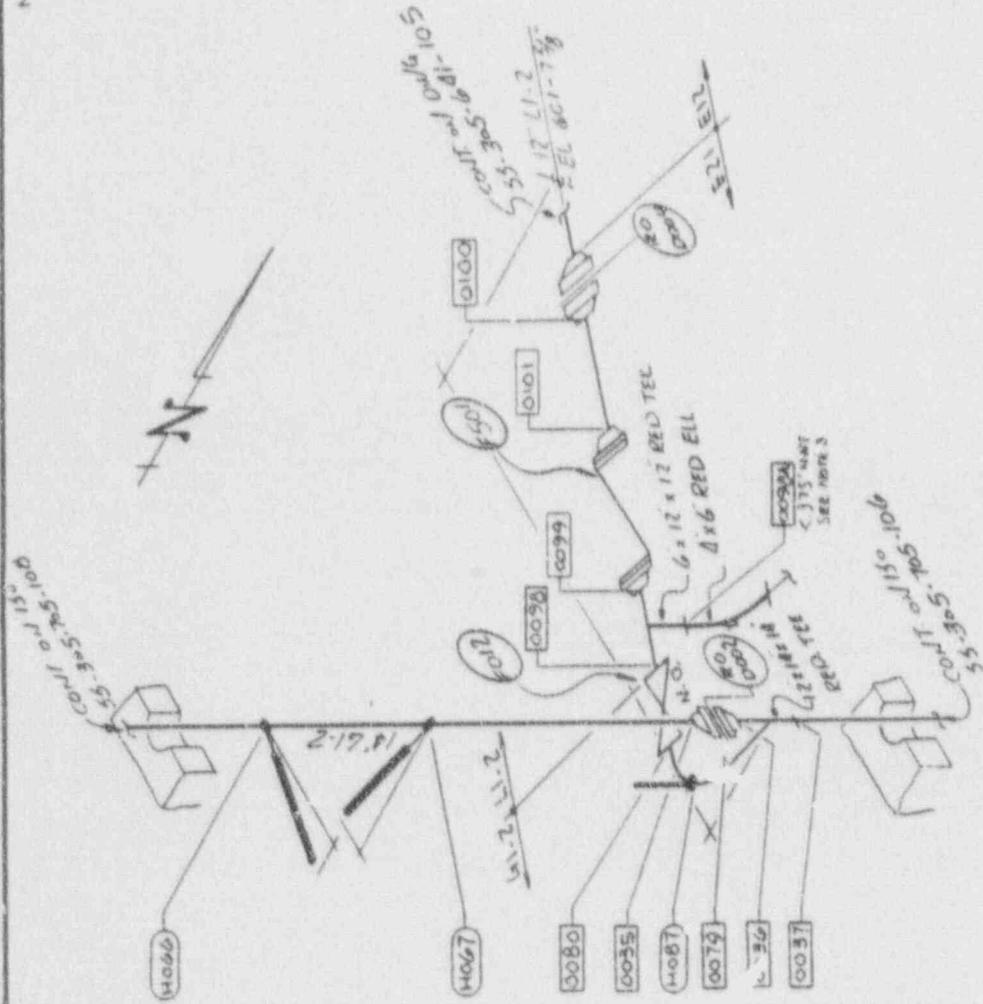
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS '2'
- 2) PSI 04-02  
151-EZ1-002
- 3) SUPPORTS AND WELDS ON PIPING  $\leq .375$ " WALL THICKNESS DO NOT REQUIRE INSERVICE INSPECTION (CODE CASE N400B).

REF DWG  
D-304-706

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Power Plant 51
DATE	151 DWG 150 515 EZ1
DESCRIPTION	LOW PRESSURE CORE SPRAY
AUX BLDG	B. EL 599'-0"
SCALE	AS SHOWN
DESIGNED BY	JL
CHECKED BY	WJ
DATE	1/24
PROJECT NUMBER	55-305-705-107
REV	1



REV	DATE	BY	CHKD	DESCRIPTION
01	11/20/91	JL	WJ	REVIS TO CURRENT STANDARDS/FORMAT
02	11/20/91	JL	WJ	PER DCM 3612

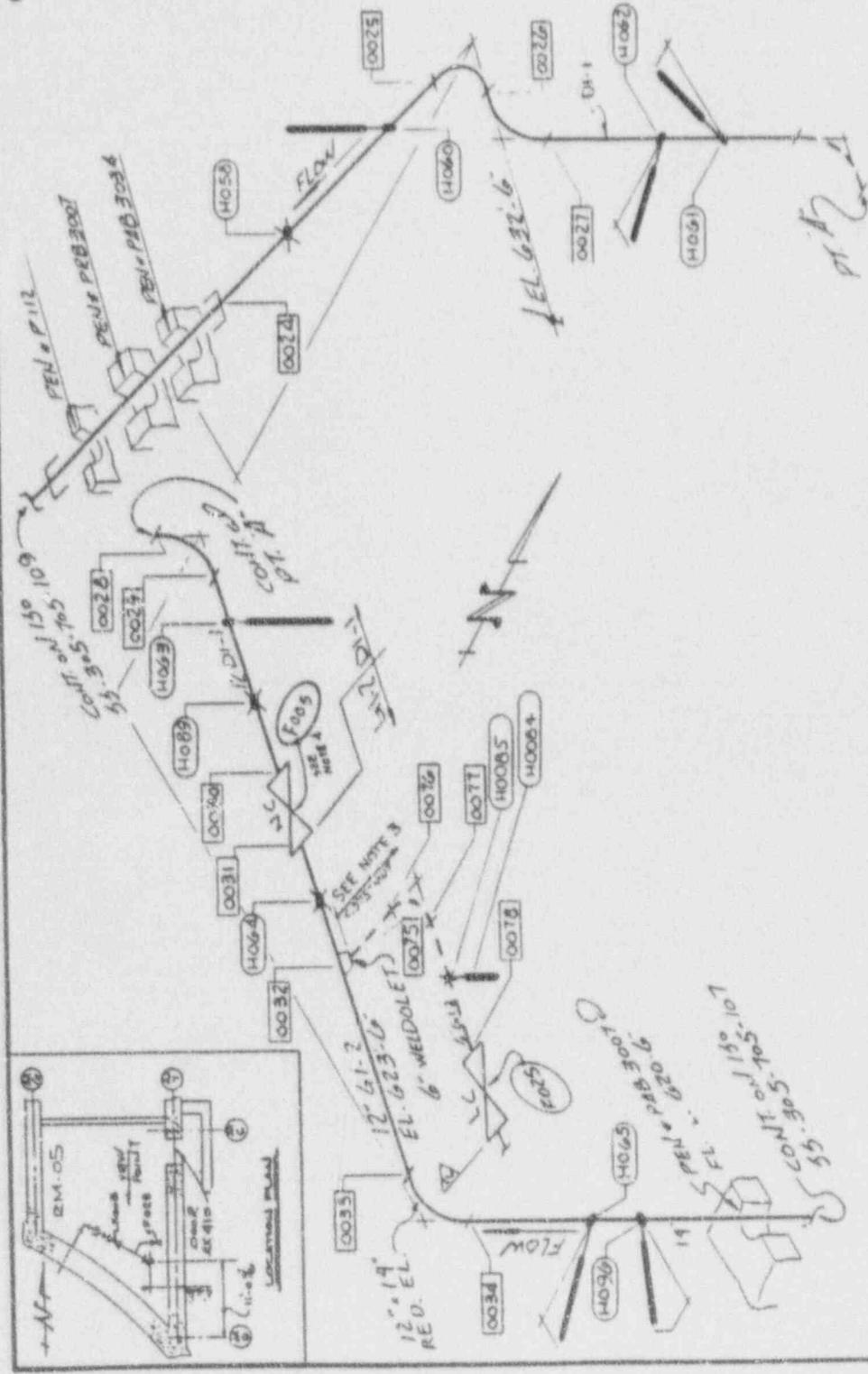
NOTES:

- 1) ALL PIPING ON THIS IS 15 CLASS 112
- 2) PSI 04-02  
ESI-EZ1-002
- 3) SUPPORTS AND WELDS ON PIPING LESS THAN 3/16" THICK DO NOT REQUIRE INSERVICE INSPECTION. (CODE CASE N408)
- 4) SEE DWG. 55-305-705-113 FOR VALVE WELDS.

REF. DWG.  
D-304-706

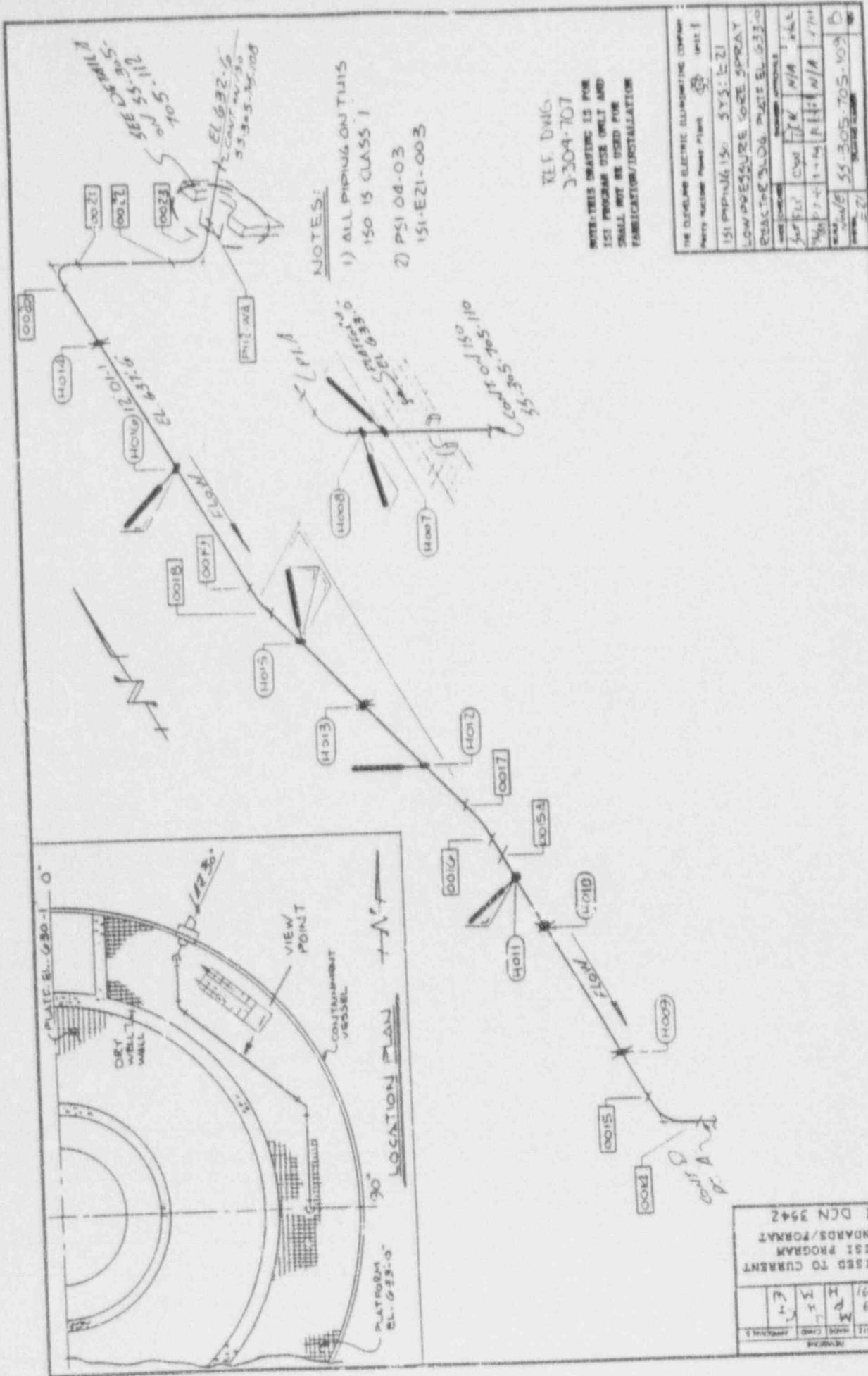
MATERIALS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-705-113
DATE	08/11/75
151 PIPING 150 PSI E21	
LOW PRESSURE CODE SPRAY	
AUX BLDG FUEL 620-6	
DESIGNED BY	WJA
CHECKED BY	WJA
DATE	10/13/75
SCALE	AS SHOWN
REV.	55-305-705-113
BY	E21
CHKD.	
APP.	



REV.	DATE	BY	CHKD.	APP.
0				
1	08/11/75	WJA	WJA	
2	10/13/75	WJA	WJA	
3				
4				
5				
6				

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542



**NOTES:**

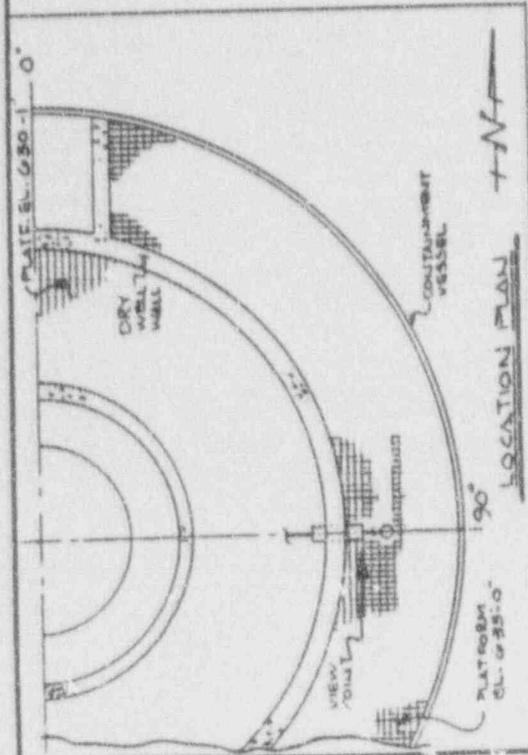
- 1) ALL PIPING ON THIS IS 150 IS CLASS 1
- 2) PSI 08-03  
151-E21-003

TEL. DWG  
3-304-707

WATER-TIGHT SEALING IS FOR  
151 PROGRAM USE WELT AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

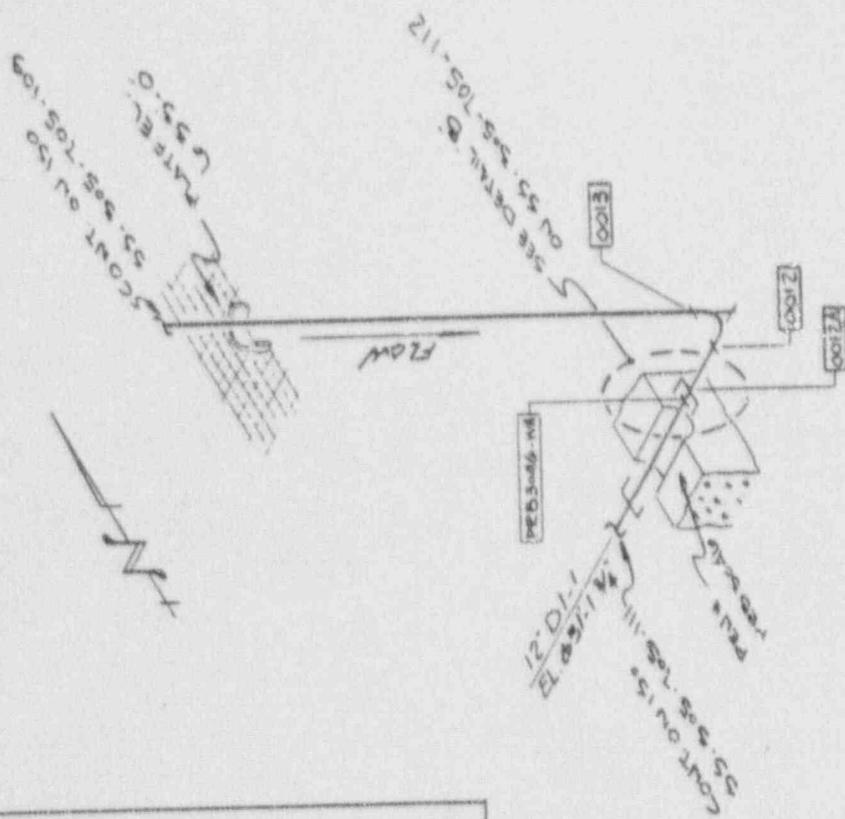
THE DEVELAND ELECTRIC ILLUMINATING COMPANY	
PLATE NO.	PLATE 1
PROJECT NO.	55-305-705-103
DATE	5/21/55
DESIGNED BY	J. W. N/A
CHECKED BY	J. W. N/A
APPROVED BY	J. W. N/A
SCALE	AS SHOWN

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3942	
APR 91	D
MAY 55	M
JUN 55	H
AUG 55	E



NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 04-03 151-E21-003

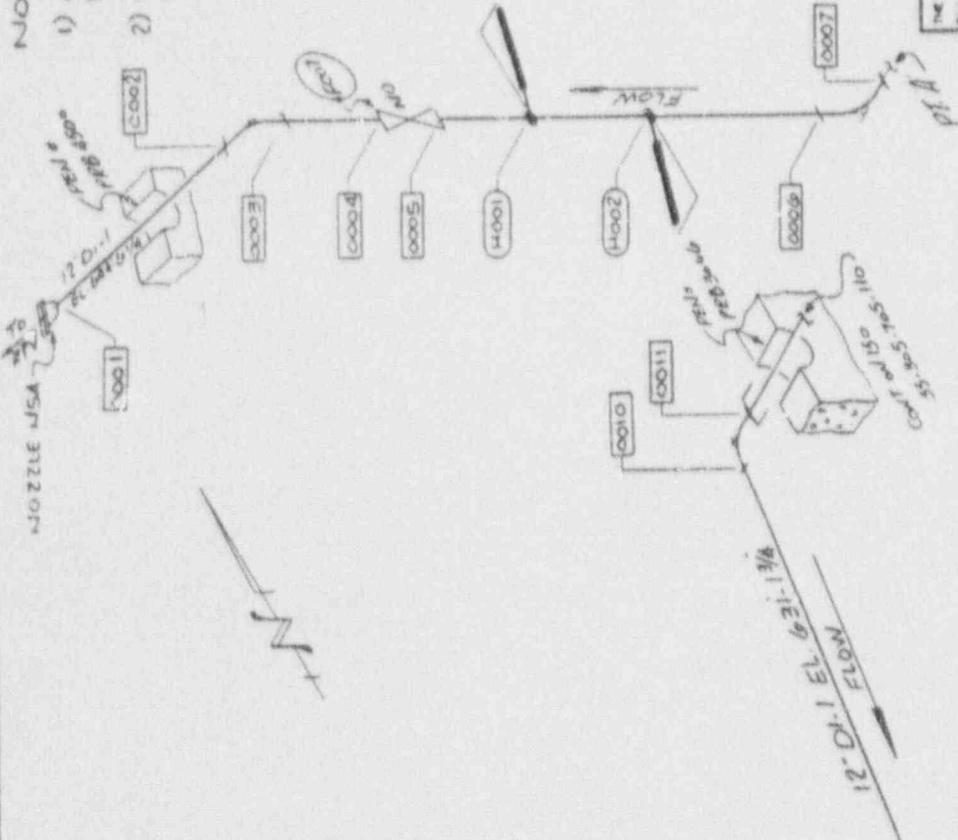
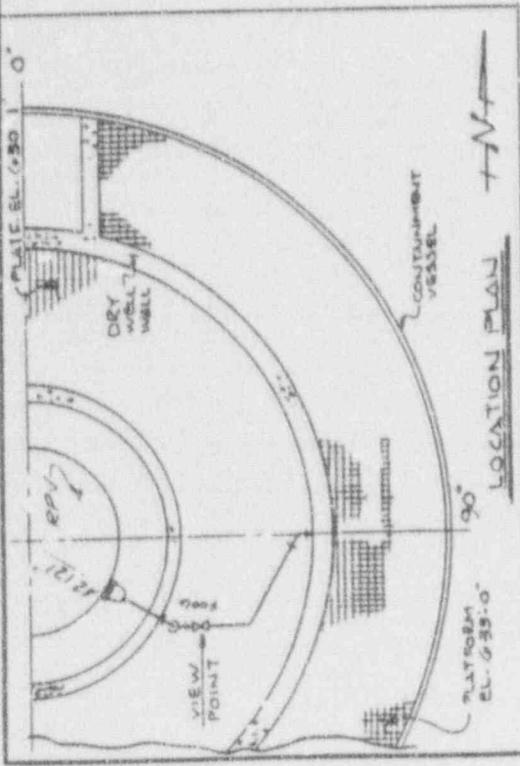


REF DWG  
D-304-707

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No.	151
Project Name	151 PIPING 150 5Y5-E21
Client	LOW PRESSURE CORE SPRAY REACTOR BLDG. E. B. 620-6
Scale	AS SHOWN
Author	WJA
Check	WJA
Date	11/81
Sheet No.	55-305-705-110 B
Total Sheets	12

REV	DATE	BY	DESCRIPTION
1	11/81	WJA	REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3612

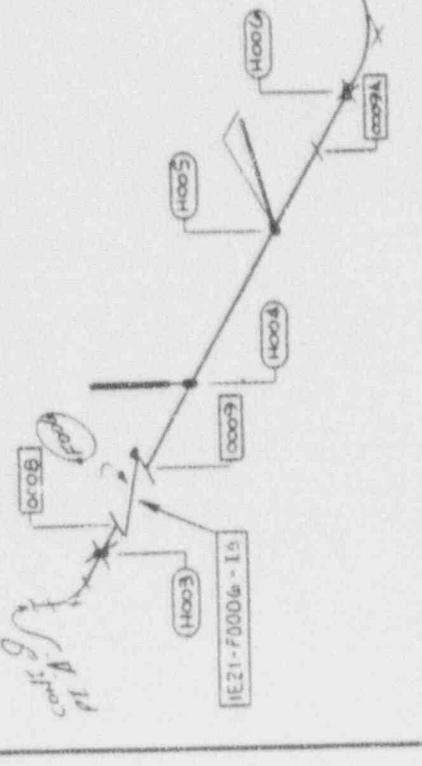


NOTES:  
 1) ALL PIPING ON THIS IS 150 LB CLASS 1  
 2) PSI 04-03  
 151-E21-003

REF. DWG.  
 D-304-707

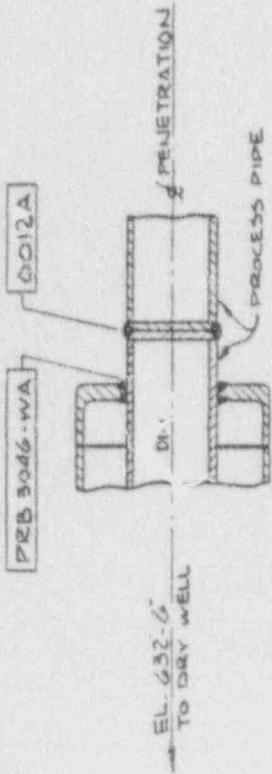
NOTES: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NO.	151-E21-003
SYST. NO.	151
SYST. NAME	151 PIPING 150 LB PRESSURE CORE SPRAY REACTOR BLDG. PLATE EL. 630'-1
DATE	12/1/55
BY	J.R. M/A
CHECKED	J.R. M/A
APPROVED	J.R. M/A
SCALE	AS SHOWN
PROJECT NO.	151-E21-003
REV.	0



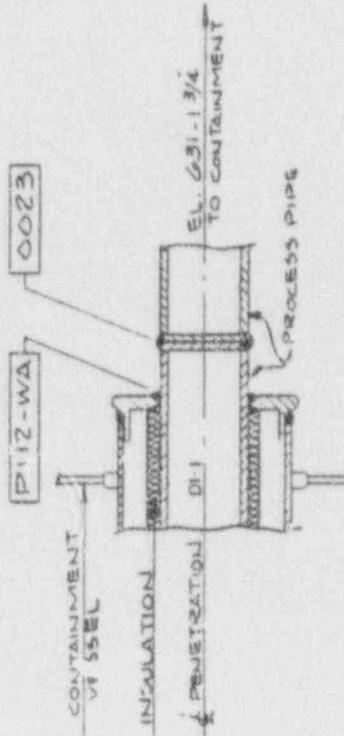
REV.	DATE	BY	CHKD.	APPROVED
0	12/1/55	J.R. M/A	J.R. M/A	J.R. M/A

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542



PENETRATION PRB 3046 WELD ARRANGEMENT

DETAIL 'B'



PENETRATION PI12 WELD ARRANGEMENT

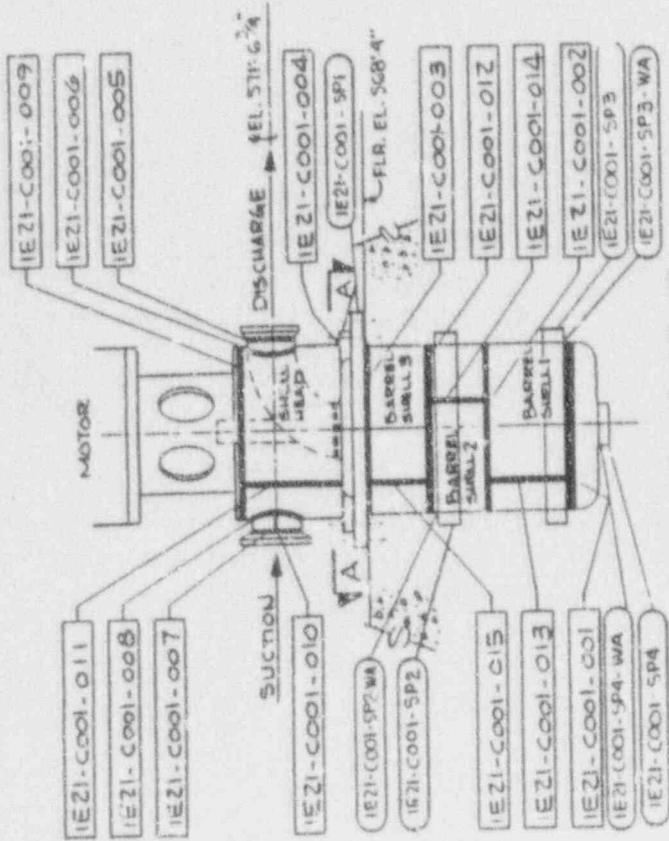
DETAIL 'A'

SEE DMG  
D-30A-70.9

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

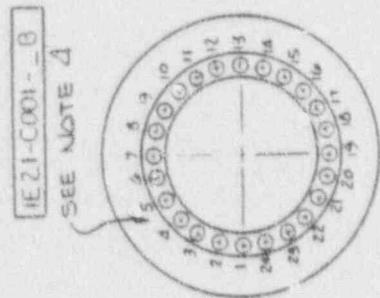
THE CLEVELAND ELECTRIC INSULATING COMPANY	
Part No. 1000000000	Sheet 1
151 PIPING SYS: E21	
LOW PRESSURE COKE SPRAY	
DRY WELD ARRANGEMENT	
DATE	DESIGNED BY
12/17/91	DMG
SCALE	SIZE
1/4" = 1'-0"	N/A
NO. OF SHEETS	NO. OF SHEETS
1	1
PROJECT NO. 33-305-705-112	
REV. 0	

REV. DATE	BY	CHKD	APP'G
08/91	DMG		
07/91	H		
03/91	H		
REVISD TO CURRENT ISI PROGRAM STANDARDS/FORAT PER DCN 3612			

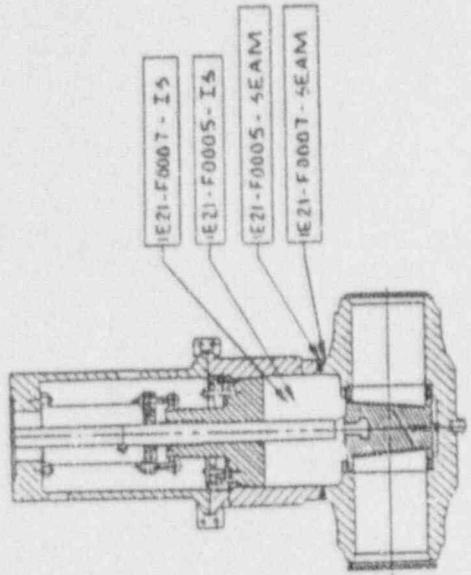


SYRON PUMP COOLI WELD ARRANGEMENT

LPCS 17 LATE VALVE F005 / FOOT WELD ARRANGEMENT



SECTION A-A  
BOLT ARRANGEMENT



BOREG WARNER VALVE

LPCS 17 LATE VALVE F005 / FOOT WELD ARRANGEMENT

4) COMPLETE BOLTING ID. NUMBERS HAVE PREFIX OF IE21-COOL- FOLLOWED BY A, B (EXAMPLE: IE21-COOL-1B, 2B, 3B, ..... ETC.)

- 1) IE21-COOL: PSI 04-01  
151-IE21-001
- 2) IE21-F005: PSI 04-02  
151-IE21-002
- 3) IE21-F007: PSI 04-03  
151-IE21-003

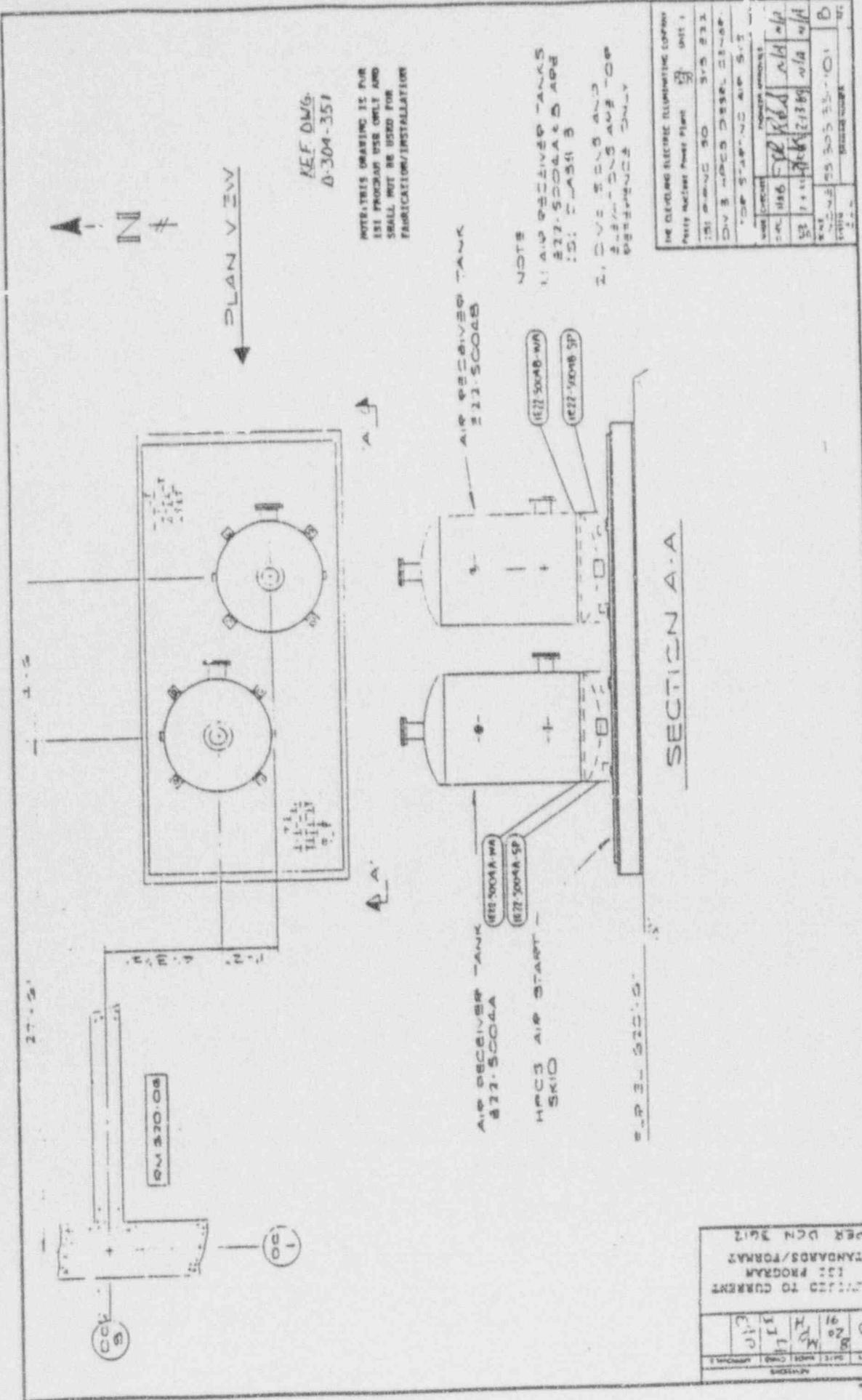
- 5) REFERENCE DWGS:  
1. PUMP PIPING: 55-305-705-102  
2. VALVE F005: 56-305-105-108  
3. VALVE FOOT: 56-305-705-111

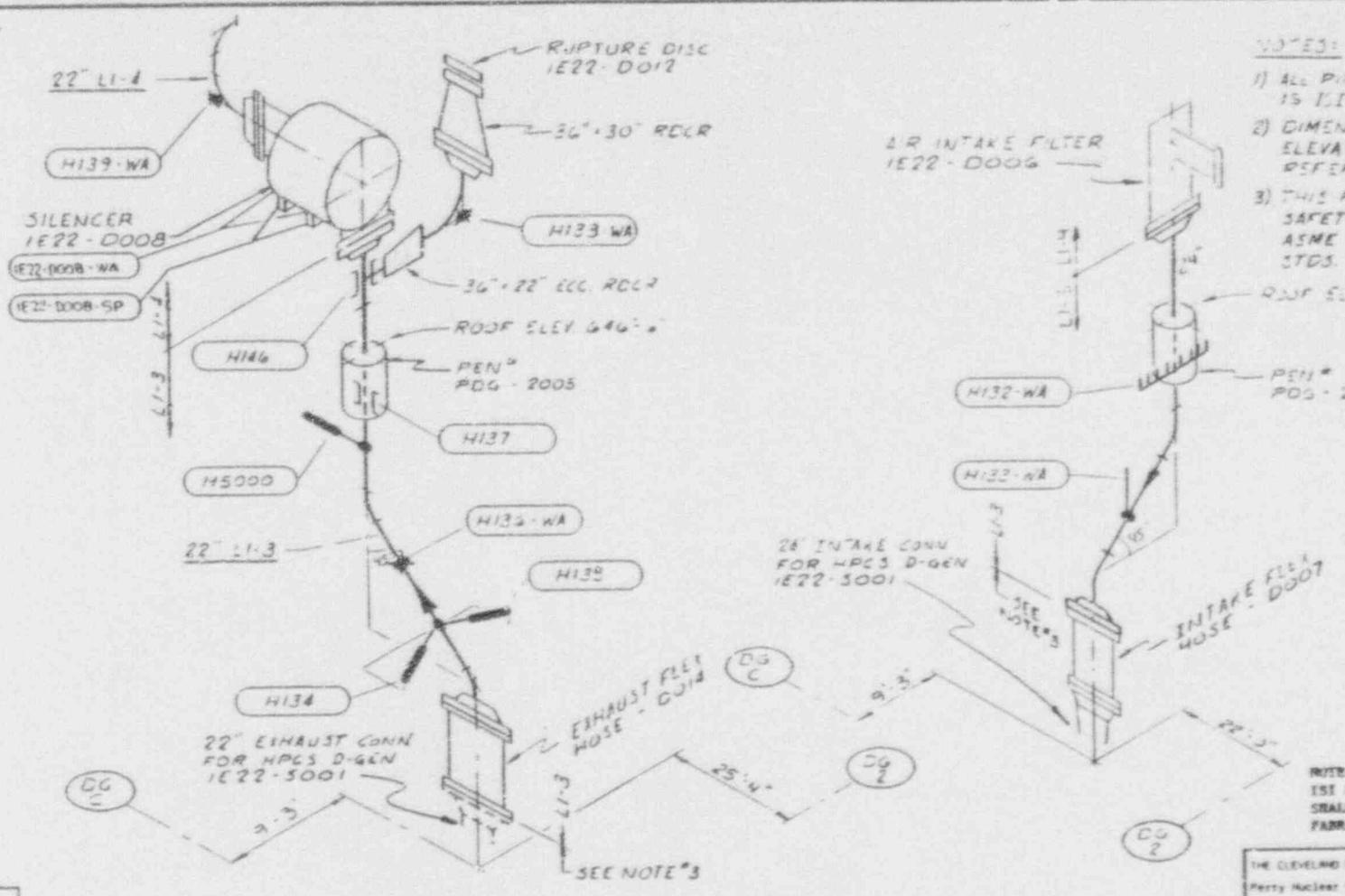
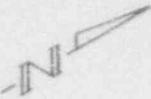
REF. DWG  
D-304-705

NOTES: THIS DRAWING IS FOR I&I PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Pump Foot	Unit: 1
151	SYS: IE21
PUMP / VALVES WELD ARRANGEMENT	
DATE	BY
CHK	W/A
APP	W/A
SCALE	55-305-705-113
DATE	BY
5/1	

REV	DATE	BY	DESCRIPTION
1	5/13	W/A	REVISED TO CURRENT I&I PROGRAM STANDARDS/FORMAT PER DCN 5542
2	5/15	W/A	
3	5/15	W/A	
4	5/15	W/A	
5	5/15	W/A	





**NOTES:**

- 1) ALL PIPING ON THIS ISO IS ISI CLASS 'B'.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
- 3) THIS PORTION IS SAFETY RELATED NON-ASME - DIESEL MFR STDS.

REF DWG  
D-304-255  
D-304-257

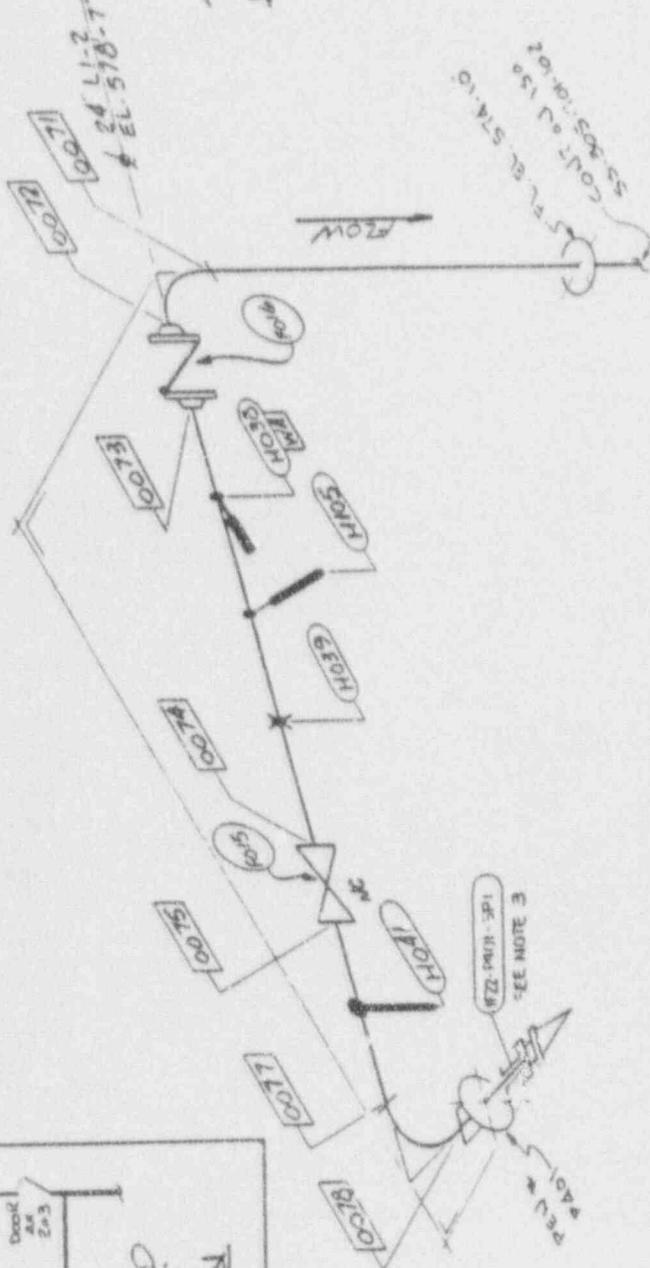
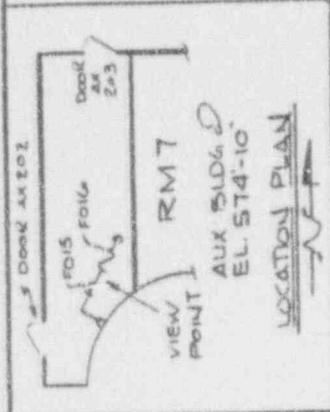
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Perry Nuclear Power Plant UNIT 1			
ISI PIPING ISO SYS E22			
DG CRANKCASE VENT PIPING			
DG BLDG 213 E. 670			
DATE	TIME	ENGINEER APPROVALS	
12/11/88	11:00	WJ	WJA
12/11/88	11:00	WJA	WJA
SCALE	55-305-355-101 B		
1/2\"/>			

REVISIONS	DATE	BY	APP'D
1	12/11/88	WJ	WJA
2	12/11/88	WJA	WJA
3	12/11/88	WJA	WJA
4	12/11/88	WJA	WJA
5	12/11/88	WJA	WJA
6	12/11/88	WJA	WJA
7	12/11/88	WJA	WJA
8	12/11/88	WJA	WJA
9	12/11/88	WJA	WJA
10	12/11/88	WJA	WJA
11	12/11/88	WJA	WJA
12	12/11/88	WJA	WJA
13	12/11/88	WJA	WJA
14	12/11/88	WJA	WJA
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95	12/11/88	WJA	WJA
96	12/11/88	WJA	WJA
97	12/11/88	WJA	WJA
98	12/11/88	WJA	WJA
99	12/11/88	WJA	WJA
100	12/11/88	WJA	WJA

2-271

Rev. 1



**NOTES:**

1. ALL PIPING ON THIS ISO IS CLASS 2
2. PSI-05-01  
ISI-E22-001
3. THIS SUPPORT IS INSIDE PENETRATION (ROUND PIPE) AND IS THEREFORE INACCESSIBLE FOR EXAMINATION/IN.

REF DWG  
D-304-701

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Power Plant 101 Unit 1
ISI Program	150 SYS: E22
High Pressure	COISE SPRAY
Aux Bldg	FL EL. 574-10
Scale	AS SHOWN
Author	JW
Check	NA
Rev	1
Date	5-15-78
Drawn	NA
Checked	NA
Project	55-305-701-101
Sheet	E22

NO.	DATE	BY	REVISION
B	8/20	M	1
8	11	H	2
3	11	H	3

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER DCN 3612

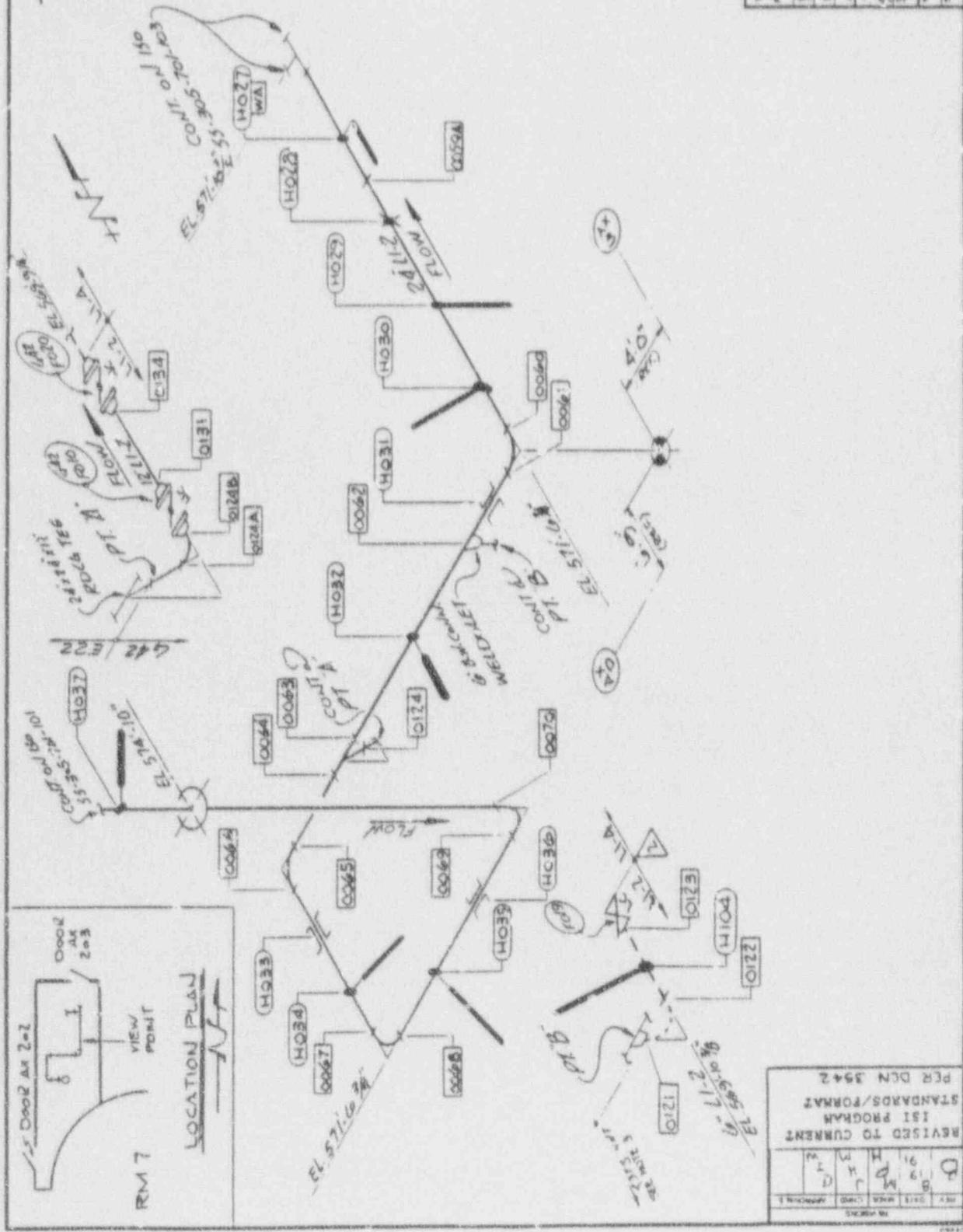
**NOTES:**

1. ALL PIPING ON THIS 150 IS CLASS 2.
2. PSI 05-01  
151 EZZ-001
3. W. 75 AND SUPPORTS ON PIPING LESS THAN .375" THICK DO NOT REQUIRE INSERVICE INSPECTION (CLERK CASE NO. 8)

TELF. DING  
D-304-681  
D-304-701

NOTE: THIS DRAWING IS FOR 151 PROGRAM USE ONLY. IT SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ALUMINUM COMPANY	
Project Name	151
Sheet No.	51
151 PIPING 150	SYSEZZ
HIGH PRESSURE CORE SPREAD	
AUX BLDG. FL EL 560'-4"	
DATE	APPROVED
DR	DR
CHK	CHK
APP	APP
DATE	DATE
201	201
55-305-704-102	B



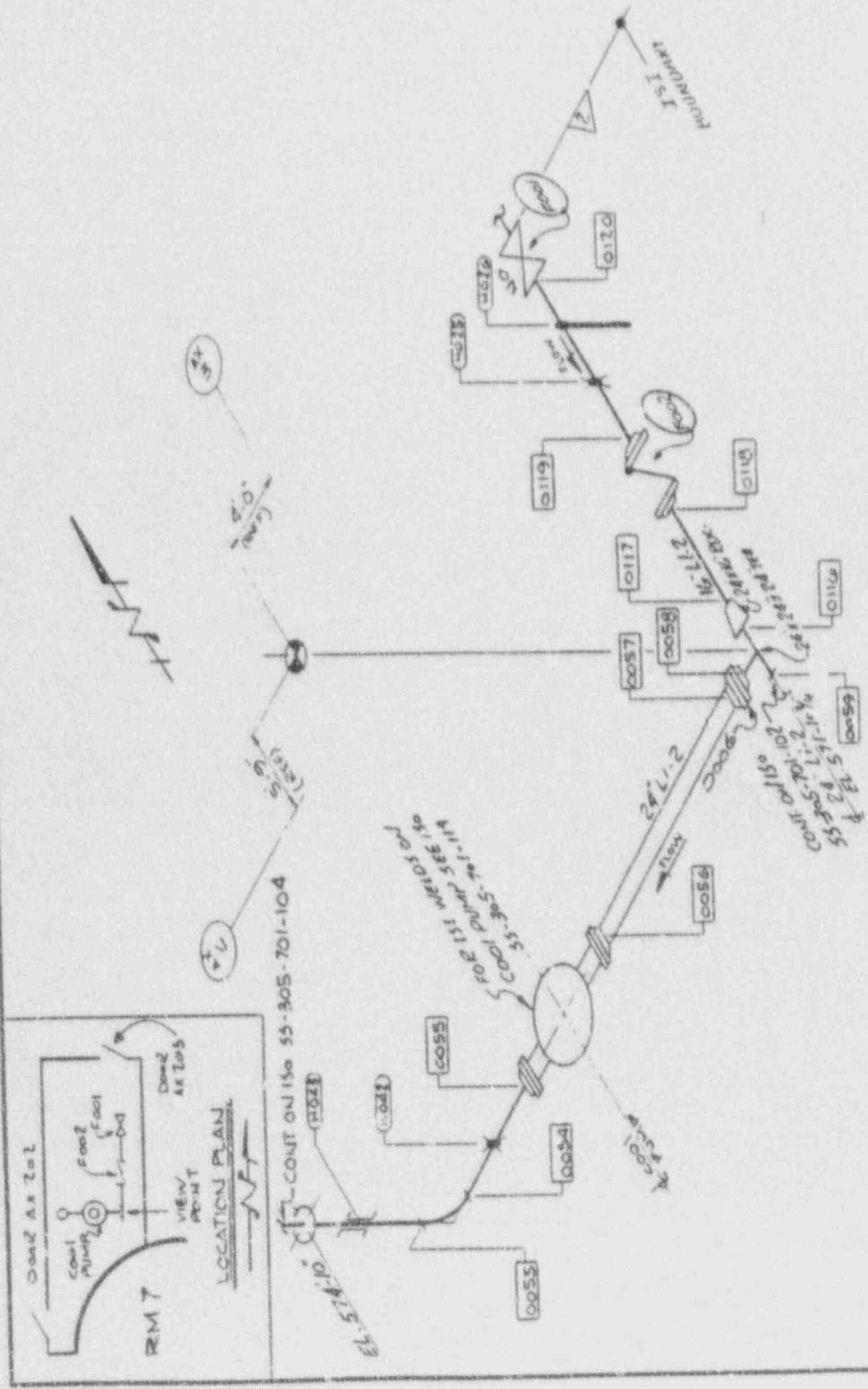
NOTES:

1. ALL PIPING ON THIS IS 1/2" CL. 55-2"
2. PSI 05-01  
1/2" EZZ-001

REF. DWG.  
D-309-216  
D-309-701

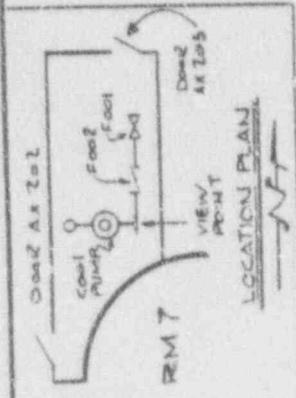
NOTES: THIS DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-701-104
1ST PIPING 150	55-305-701-104
HIGH PRESSURE CORE SPRAY	
AUX. DRUG. F. EL. 568-4	
DATE	1/11/50
BY	W. J. H. / M. K.
CHECKED	M. K.
APPROVED	M. K.
SCALE	AS SHOWN
FIG. NO.	55-305-701-104
SHEET NO.	1



REVISION	DATE	BY	CHKD
1	1/11/50	W. J. H.	M. K.
2	1/11/50	M. K.	M. K.
3	1/11/50	M. K.	M. K.

REVISED TO CURRENT  
1ST PROGRAM  
STANDARDS FORMAT  
PER DCM 3542



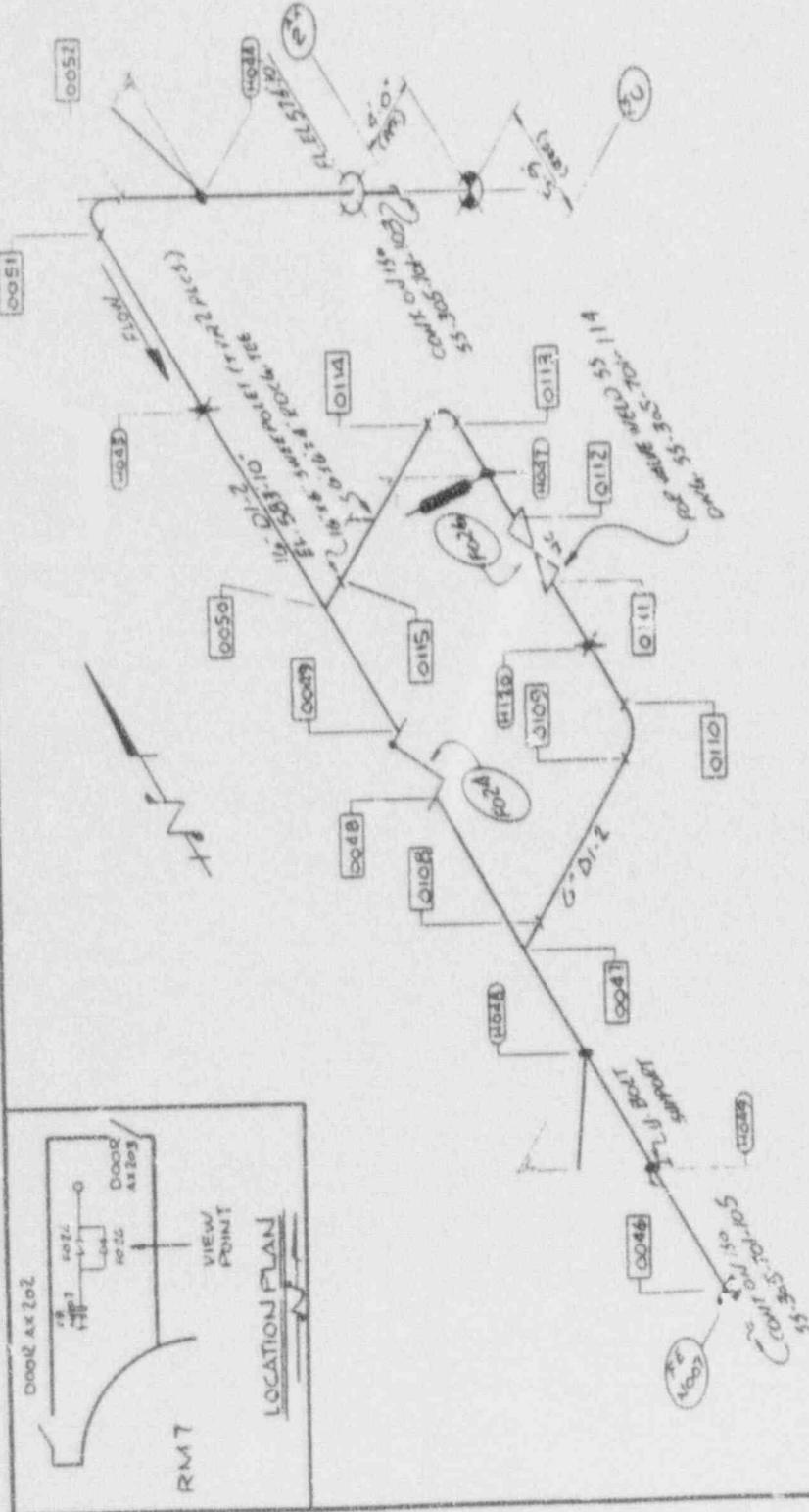
**NOTES:**

1. ALL PIPING ON THIS IS 150 LB CLASS 2"
2. PSI 05-01  
151 EZZ-001

REF. DWG.  
D-30A-701

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 57
151 PIPING 150	SYS: EZZ
HIGH PRESSURE CORE SPRAY	
MAX BLDG EL. 574'-0"	
Scale: 1/8" = 1'-0"	Drawn: M/A
Checked: M/A	Appr: M/A
Rev: 1	Date: 11-77
Job No: 55-305-701-104	Sheet: D
Project: EZZ	Drawn: M/A



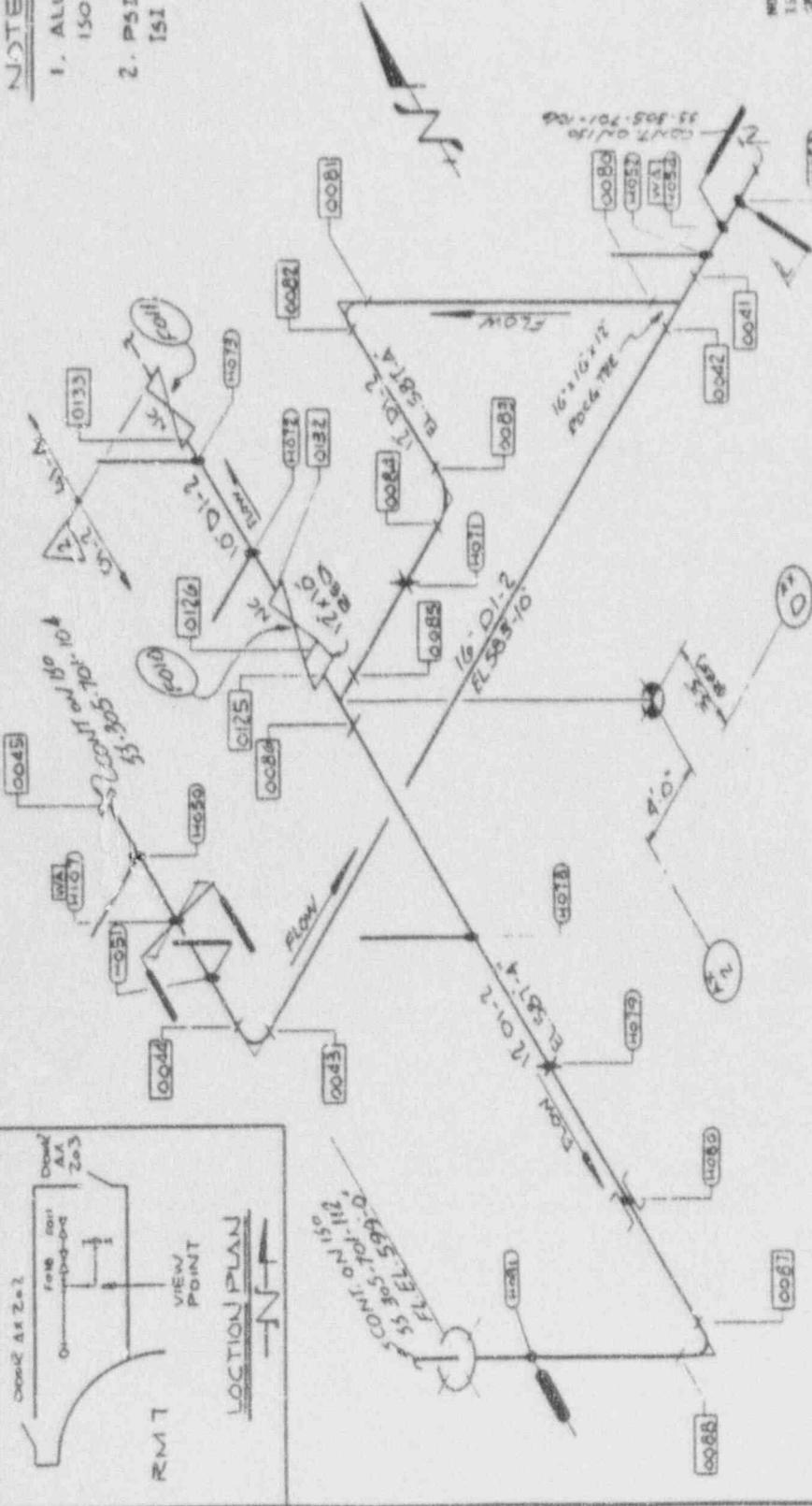
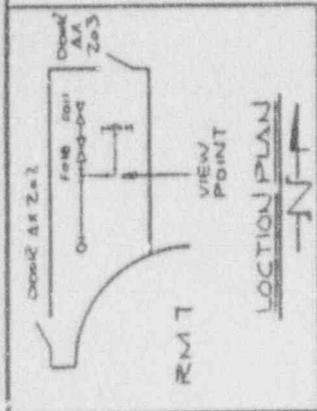
REVISED TO CURRENT	PER DCN 3642
STANDARDS/FORMAT	
151 PROGRAM	
DATE	11-77
BY	M/A
CHKD	M/A
APPR	M/A

**NOTES:**

1. ALL PIPING ON THIS 150 IS CLASS "2"
2. PSI 05-03  
151-E22-003

FILE D'416  
D-304-701

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



THE CLEVELAND ELECTRIC ILLUMINATING CORP.	
Project Name: Power Plant	12-11
151 PIPING 150	513-E22
HIGH PRESSURE CORE SPRAY	
ALU BLOB	PL. EL. 574-10
DATE	10/15/55
BY	J.R.
CHECKED	M.A.
SCALE	1:1
REVISED TO CURRENT	55-305-701-105
PER D.L. 542	STANDARD: ORMA

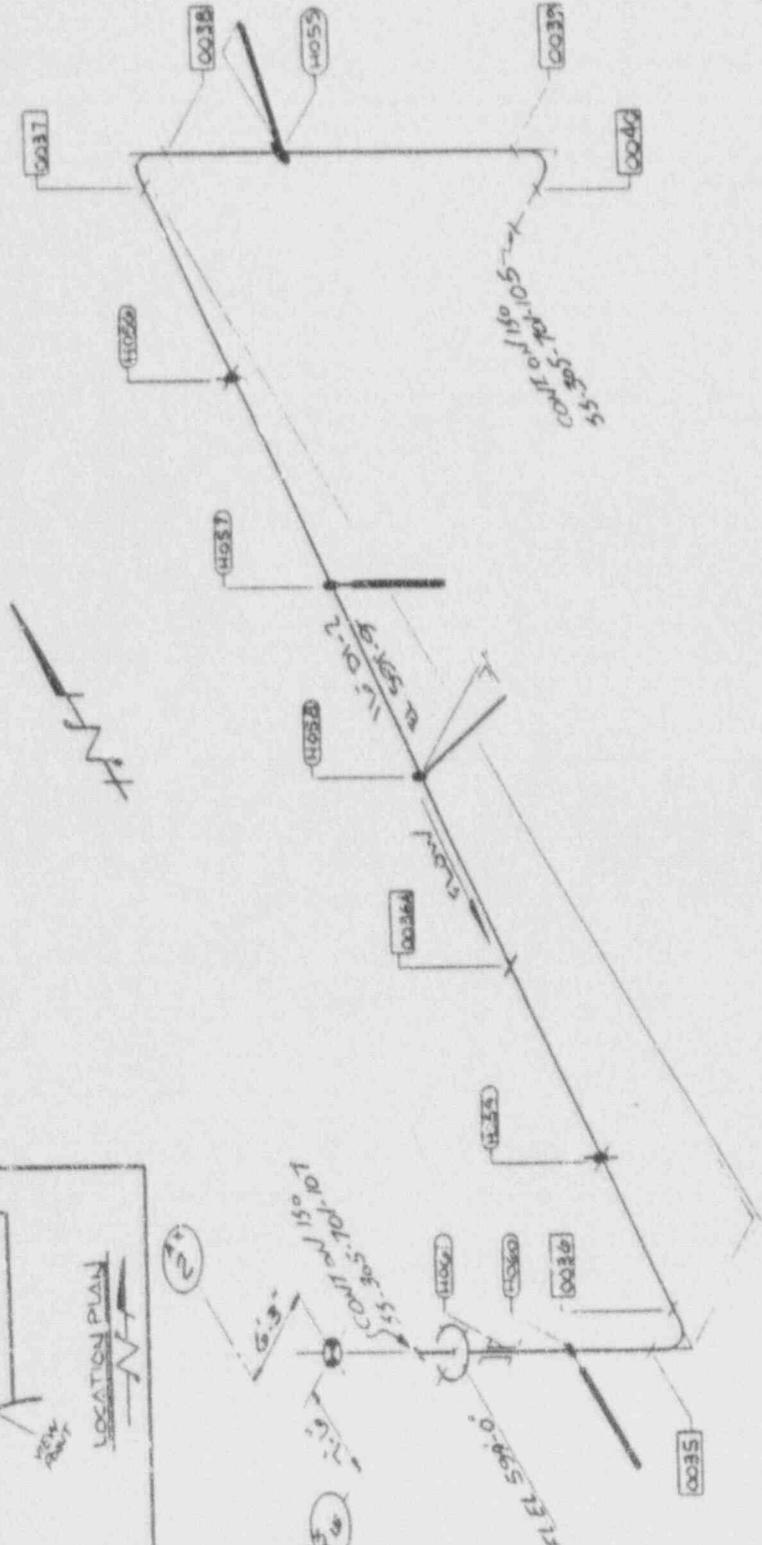
NOTES:

- 1. ALL PIPING ON THIS IS 150 IS CLASS "2"
- 2. PSI 05-03 PSI-E22-003

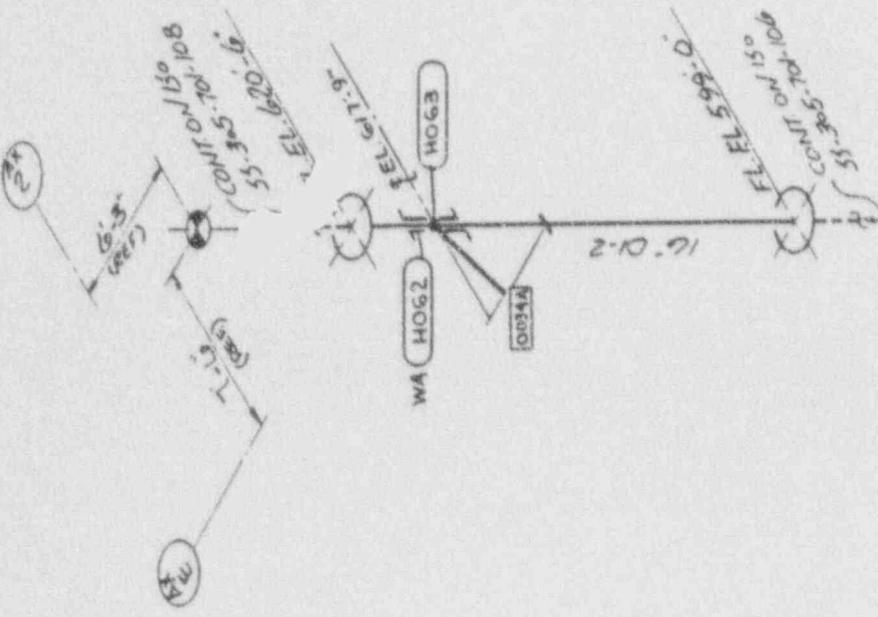
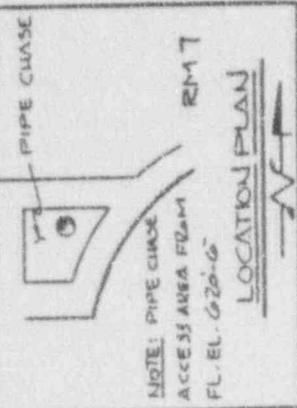
REF DWG 0-204-701

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PARTY PROJECT Name: _____	
DATE: _____	BY: _____
PROJECT: ISI PIPING 150 SYS: E22	
HIGH PRESSURE CORE SPRAY	
AUX BLDG. FL. EL. 574-10"	
NO. OF SHEETS: _____	TOTAL SHEETS: _____
SCALE: _____	DATE: _____
BY: _____	CHECKED: _____
DATE: _____	DATE: _____
NO. _____	NO. _____



REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3912 AND DCN 3930	
DATE: _____	BY: _____
DATE: _____	DATE: _____
NO. _____	NO. _____



- NOTES:
1. ALL PIPING ON THIS 150 IS CLASS "2"
  2. PSI 05-003  
151 E22-003

REF. DWG  
D-204-701

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

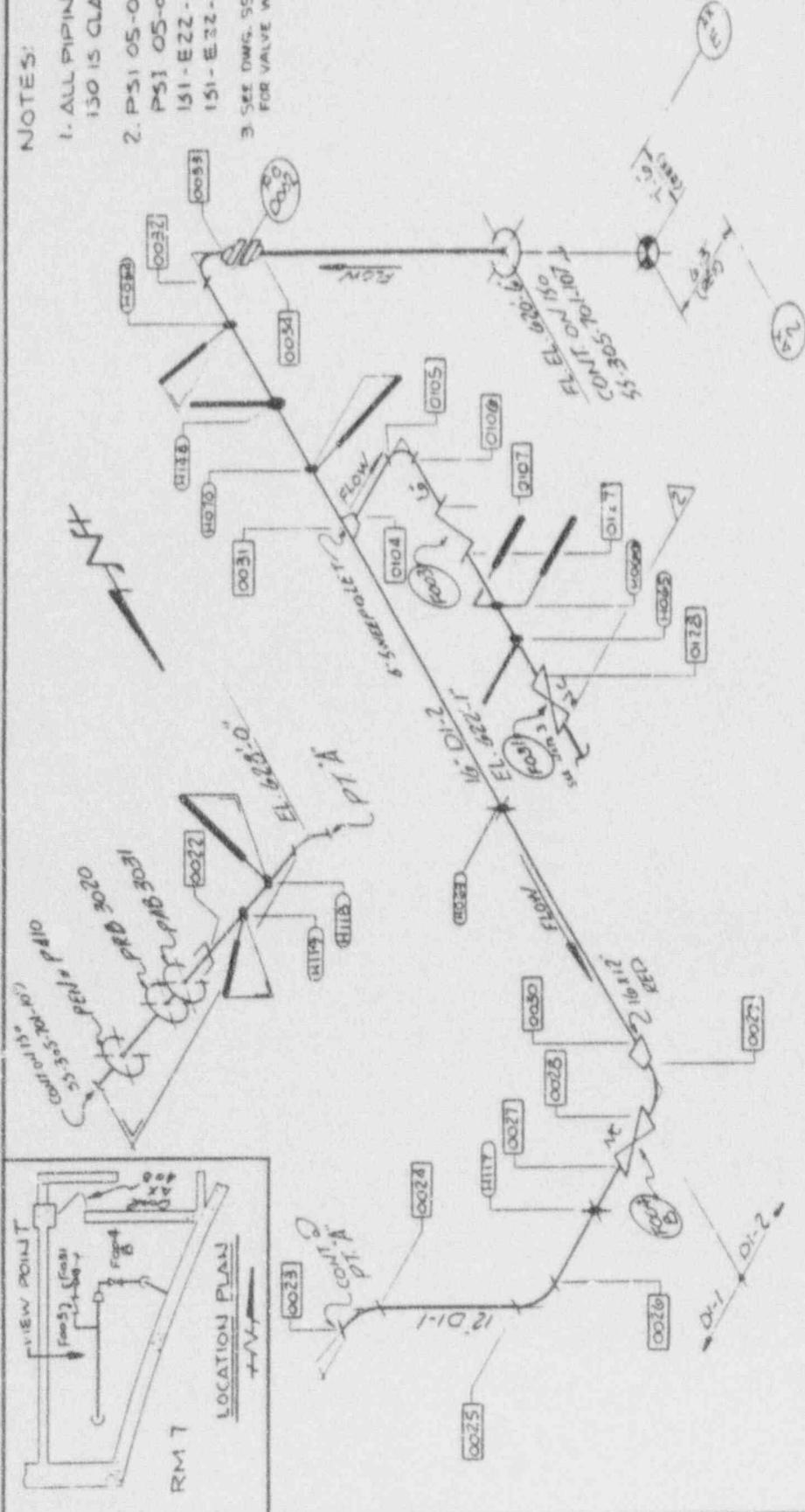
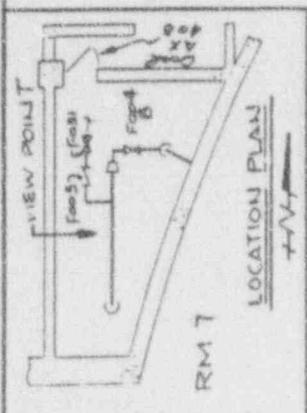
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Sheet 53
PROJECT NAME	151 PIPING 150
SYMBOL	5YS: E22
DESCRIPTION	HIGH PRESSURE CORE SPRAY
DATE	AUG 2006
FL. EL.	599-0 / 620-6
REV	
BY	WJH
CHKD	WJA
DATE	11/11/06
APP'D	WJA
DATE	11/11/06
PROJECT NUMBER	55-305-701-107
REV	0

REV	DATE	BY	CHKD
B	20	P	H
9		W	
1			

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PEK DLN 3612

NOTES:

1. ALL PIPING ON THIS IS CLASS 112
2. PSI 05-02 / PSI 05-03  
131-EZZ-002 / 151-EZZ-003
3. SEE DMS. 55-305-701-100 FOR VALVE WELDS.



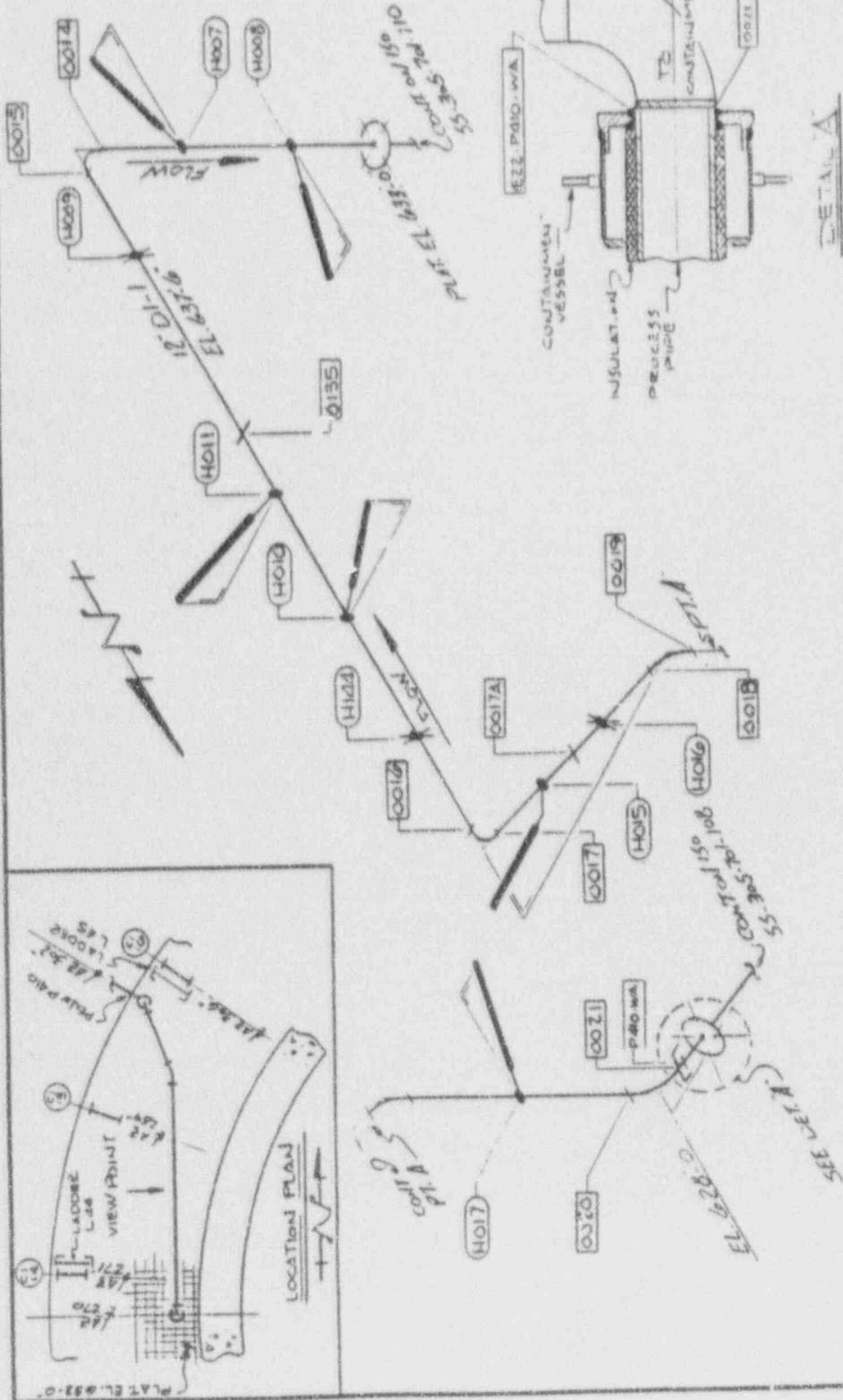
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Power Plant 2011
151 PIPING, 150	SYS-EZZ
HIGH PRESSURE CORE SPRAY	
DATE	11/10/55
BY	EL EL 600-6
CHECKED	N/A
APPROVED	N/A
DATE	11/10/55
BY	55-305-701-100
PROJECT NUMBER	B

NOTES: THIS DRAWING IS FOR THE PROGRAM 'R' ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION  
 SEE DMS 55-305-701

REVISED TO CURRENT	D 12
STANDARDS/FORMAT	11/10/55
PER DCN 3542	N/A
AND DCN 3630	M

NOTES:

1. ALL PIPING ON THIS IS 150 LB CLASS 'I'
2. PSI 05-02  
151-E22-002



REF. DIM'S  
U-304-703

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEARING ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 51
151 PIPING IS 150	SYS: EZZ
150 LB PRESSURE CORE SPRAY	
REACTOR BLDG PLAT EL. 633-0	
DATE: 10/1/58	BY: M/A
SCALE: 1/4" = 1'-0"	APP: M/A
NO. OF SHEETS: 55	SHEET NO.: 305-701-109
DATE: 10/1/58	BY: M/A
SCALE: 1/4" = 1'-0"	APP: M/A
NO. OF SHEETS: 55	SHEET NO.: 305-701-109

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3612
B 2 M P H S G
DATE: 10/1/58
BY: M/A
APP: M/A

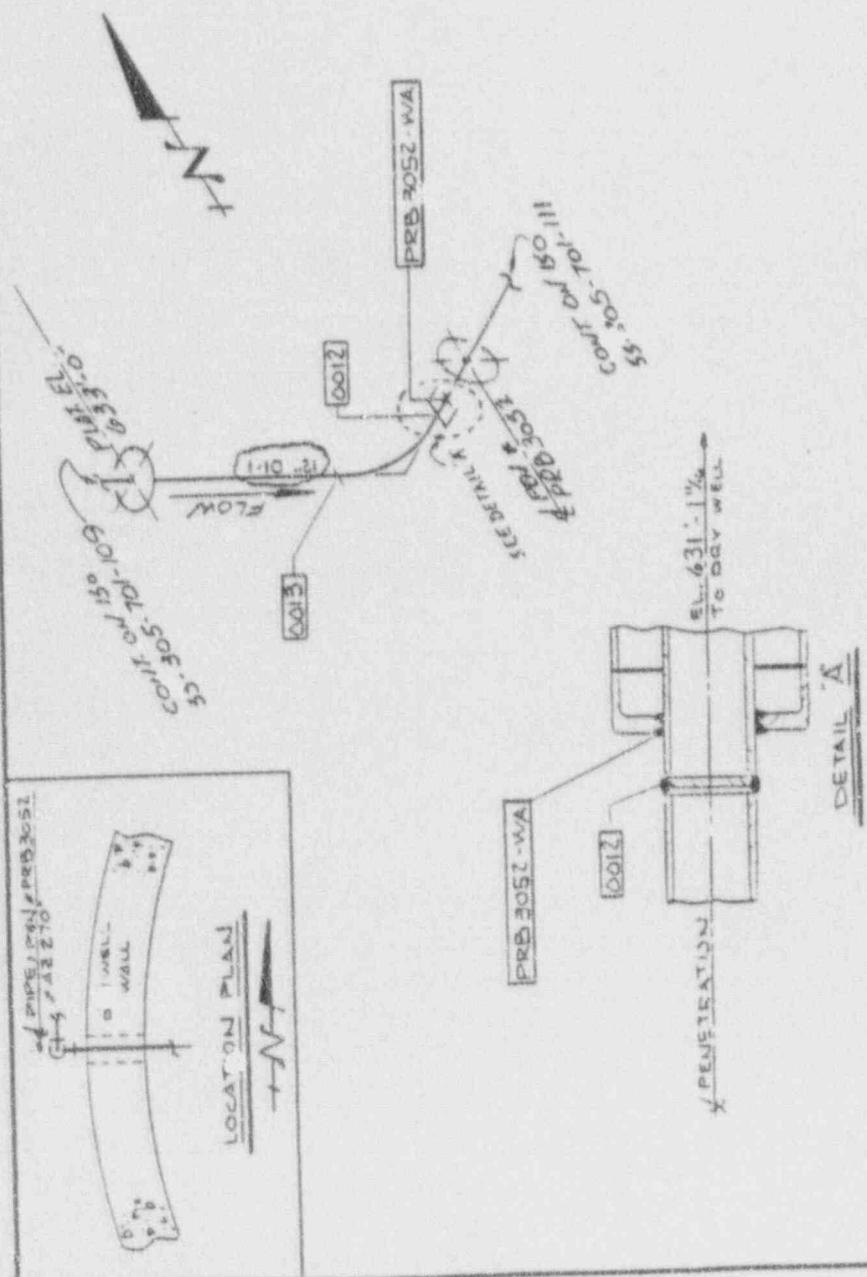
NOTES:

1. ALL PIPING ON THIS '50 IS CLASS 1.
2. PSI 05-02 151-E22-002

REF DWG  
D-204-703

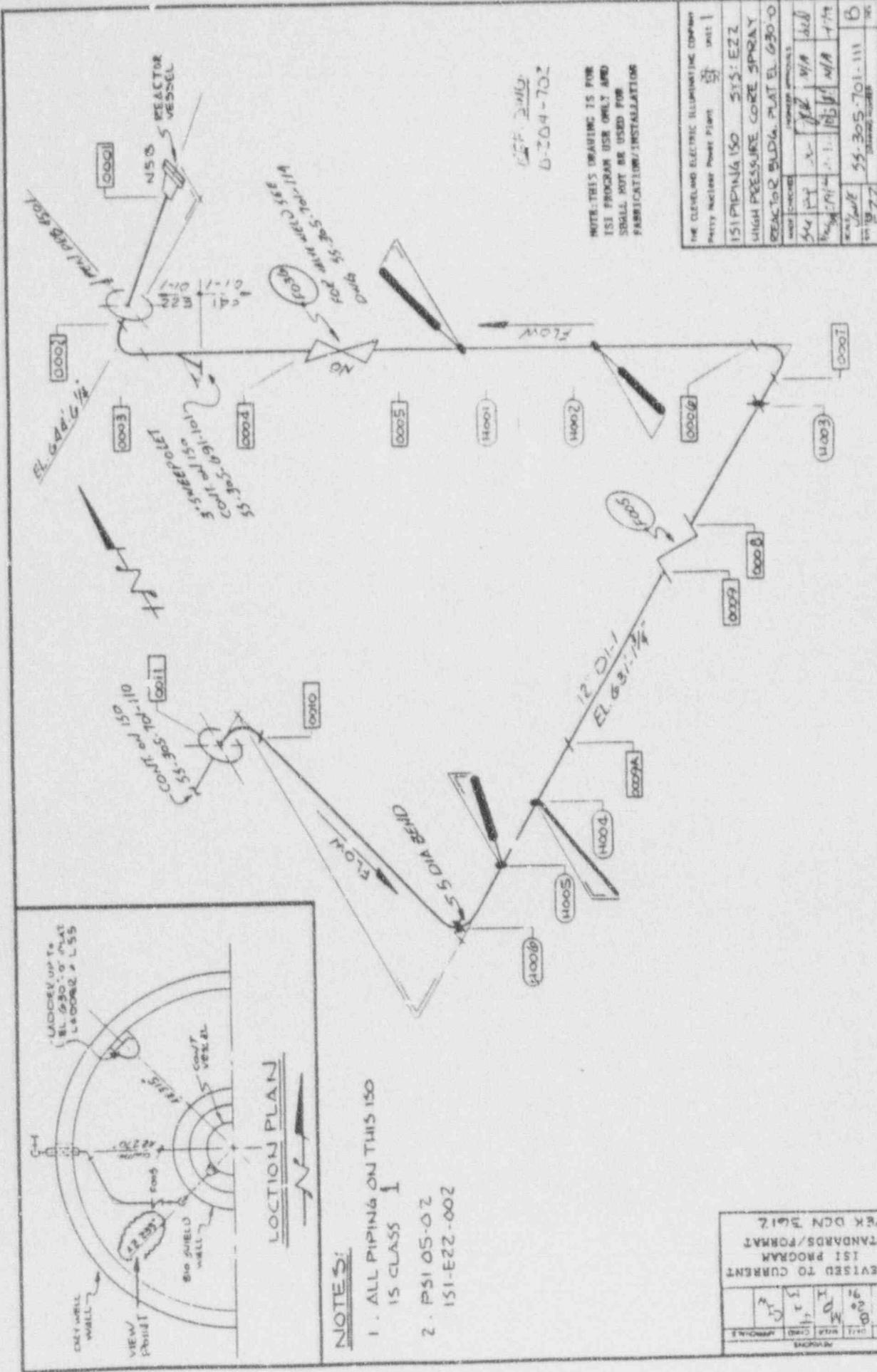
NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ENGINEERING COMPANY	
Project Name: Power Plant	Unit: 1
151 PIPING 150 SYS E22	
HIGH PRESSURE CORE SPRAY	
REACTOR BLDG FUEL 600-G	
Scale: 1/4" = 1'-0"	Material: N/A
Notes: E/11-	Notes: N/A
Rev: 1	Rev: 1
Drawn: 55-305-704-110	Checked: D
Date: 5-22	Scale: 1/4" = 1'-0"



REVISIONS	DATE	BY	APP
1	5/22	55-305-704-110	D
2			
3			
4			
5			
6			
7			
8			
9			
10			

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3612



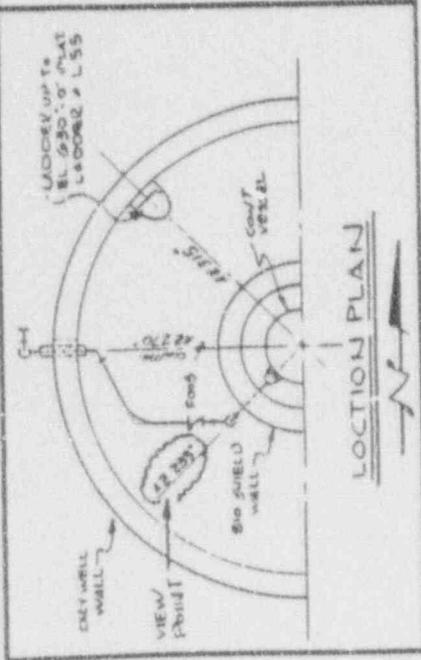
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 PERRY NUCLEAR POWER PLANT UNIT 1  
 151 PIPING 150 SIS-EZZ  
 HIGH PRESSURE CORE SPRAY  
 REACTOR BLDG. PLAT EL. 030-0

NO.	DATE	BY	CHKD.	APP.
1				
2				
3				
4				
5				

55-305-701-111  
 150  
 151  
 152

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY. AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF. 2110  
 D-304-702



- NOTES:**
1. ALL PIPING ON THIS 150 IS CLASS I
  2. PSI 05-02 151-EZZ-002

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 5612

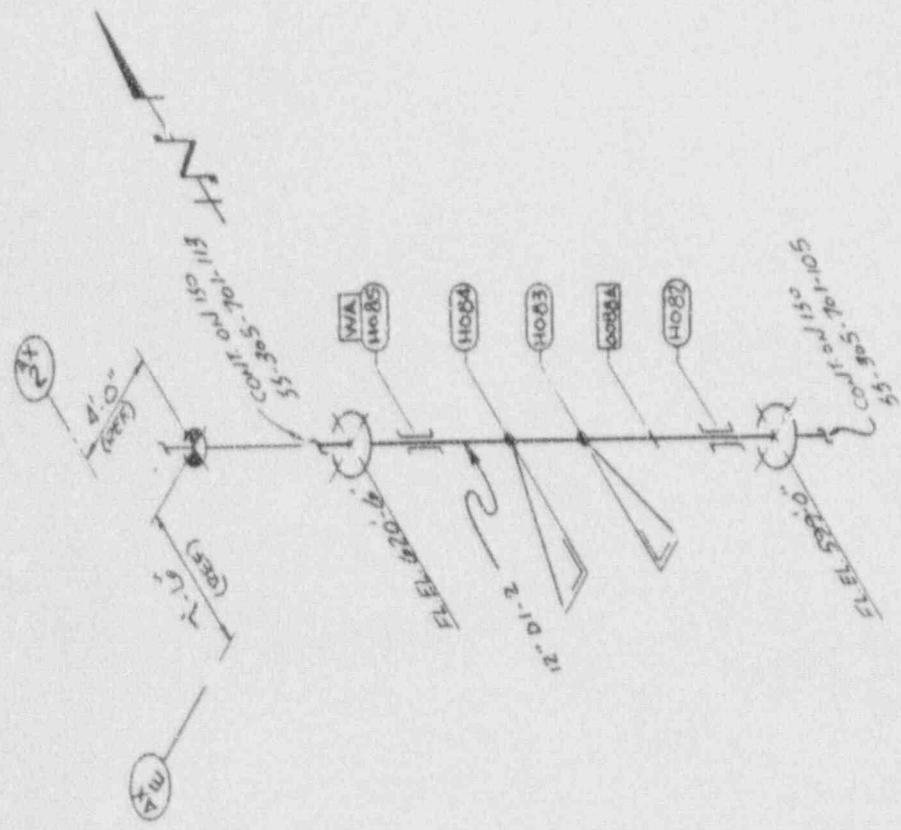
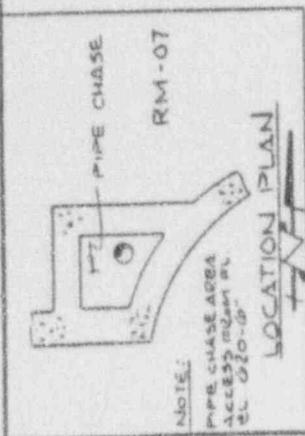
DATE	BY	CHKD.	APP.
16 08 98	M		
1 2 99			
5 3 99			

**NOTES:**

1. ALL PIPING ON THIS 150 IS CLASS 2.
2. PSI 05-03 151-EZ-003

REF DWG. D-304-701

NOTES: DRADING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542	D	8	19	91	11
	10	10	10	10	10
	10	10	10	10	10
	10	10	10	10	10
	10	10	10	10	10
	10	10	10	10	10

THE CLEARING ELECTRIC ILLUMINATING COMPANY	Sheet 1
Project Number Power Plant	55-385-701
151 PIPING 150	55-EZ-003
HIGH PRESSURE CORE SPRAY	
AUX BLOWING PIPE CHASE	
DATE	11/18/81
BY	J. H. H. / J. H. H.
CHKD BY	J. H. H. / J. H. H.
APP'D BY	J. H. H. / J. H. H.
DATE	11-20-81
SCALE	AS SHOWN

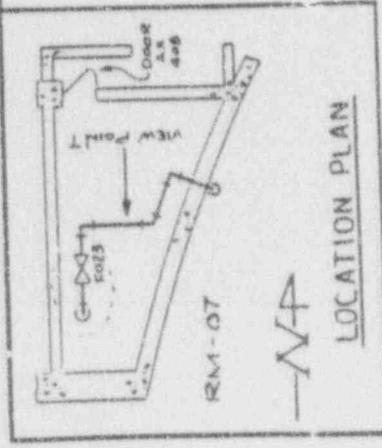
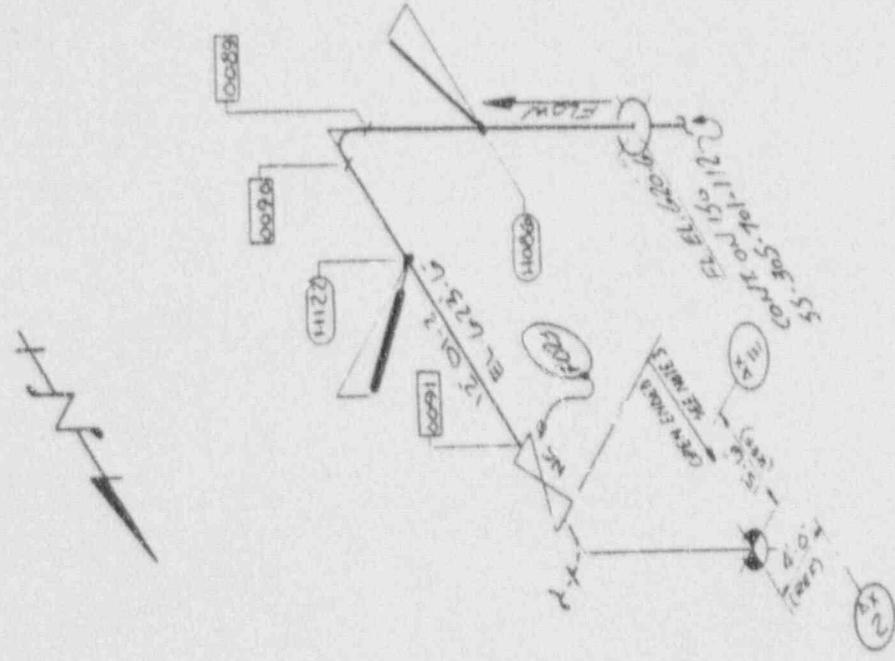
NOTES:

- 1) ALL PIPING ON THIS IS 15 CLASS 2
- 2) PSI 05-03/05-03A  
151-E22-003  
151-E22-004
- 3) EXEMPT PER CC N-406.

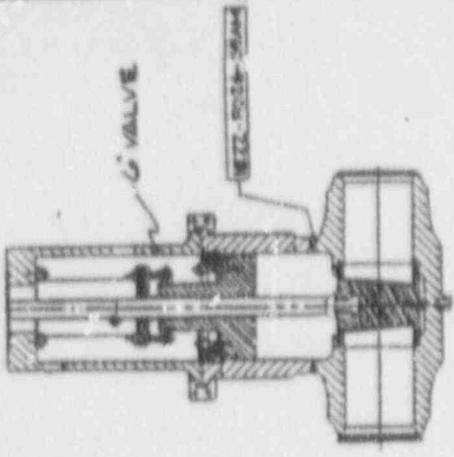
REF DWG 30-701

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

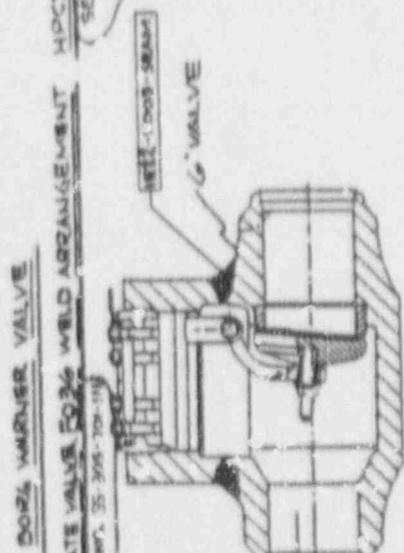
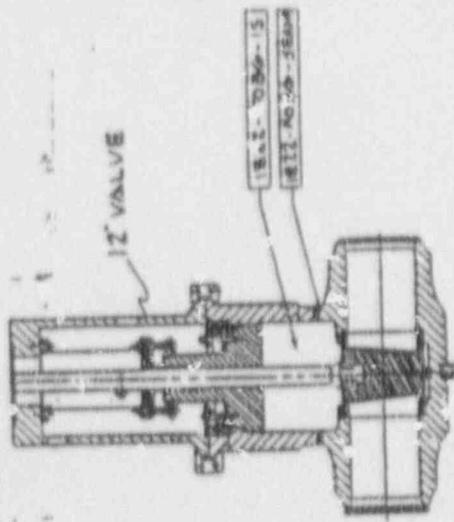
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet No: 51 of 1
151 PIPING ISG 515 E22	
HIGH PRESSURE CORE 8787	
AUX BUILD. FL. EL. 620.6	DATE: 1/13/88
DESIGNED BY: J.P.	CHECKED BY: J.P.
DATE: 1/13/88	SCALE: 1" = 10'
PROJECT NO: 151-E22-003	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
223	51E11-101-701-55



REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
151 PROGRAM
B
M
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C
16
10
1
1



**6024 WARNER VALVE**  
 HPCS GATE VALVE FOR WELD ARRANGEMENT  
 (SEE DWG. 35-308-101-104)  
 REFERENCE DRAWINGS:  
 1. 18.2-7026-15: PSI #05-04  
 2. 18.2-7026-15: PSI #05-06  
 3. 18.2-7026-15: PSI #05-07  
 4. 18.2-7026-15: PSI #05-05  
 151-EZZ-006



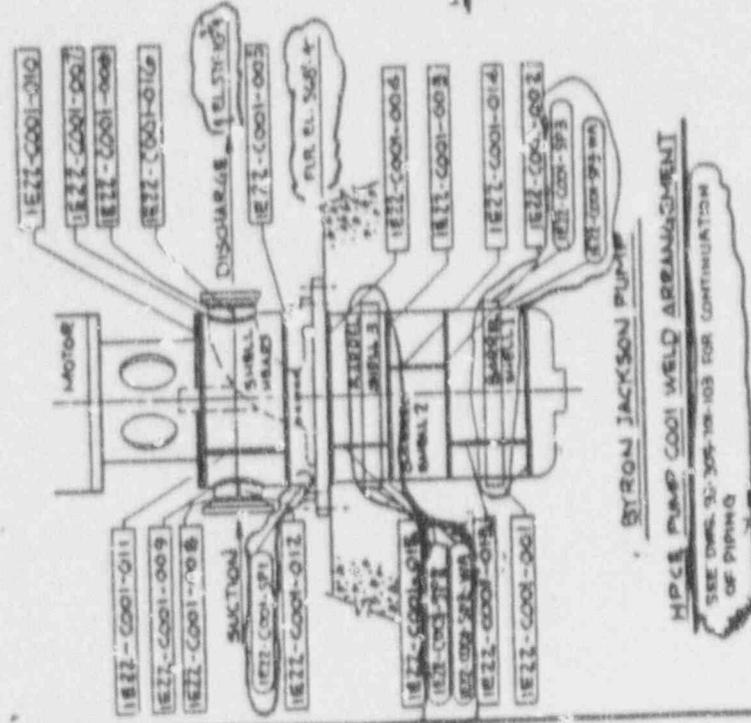
**6024 WARNER VALVE**  
 HPCS GATE VALVE FOR WELD ARRANGEMENT  
 (SEE DWG. 35-308-101-104)  
**6024 WARNER VALVE**  
 HPCS SWING CHECK VALVE FOR WELD ARRANGEMENT  
 (SEE DWG. 35-308-101-106)

INTERNET DRAWING IS FOR  
 THE PURPOSE OF ONLY AND  
 SHALL NOT BE USED FOR  
 PRODUCTION/INSTALLATION

THE COMPANY ELECTRIC ILLUMINATION COMPANY  
 Project Number: 35-308-101-101  
 DATE: 11/11/11  
 EZZ-006

NO.	DATE	BY	CHKD	APP'D	REV
1	11/11/11	EZZ			
2					
3					
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10					

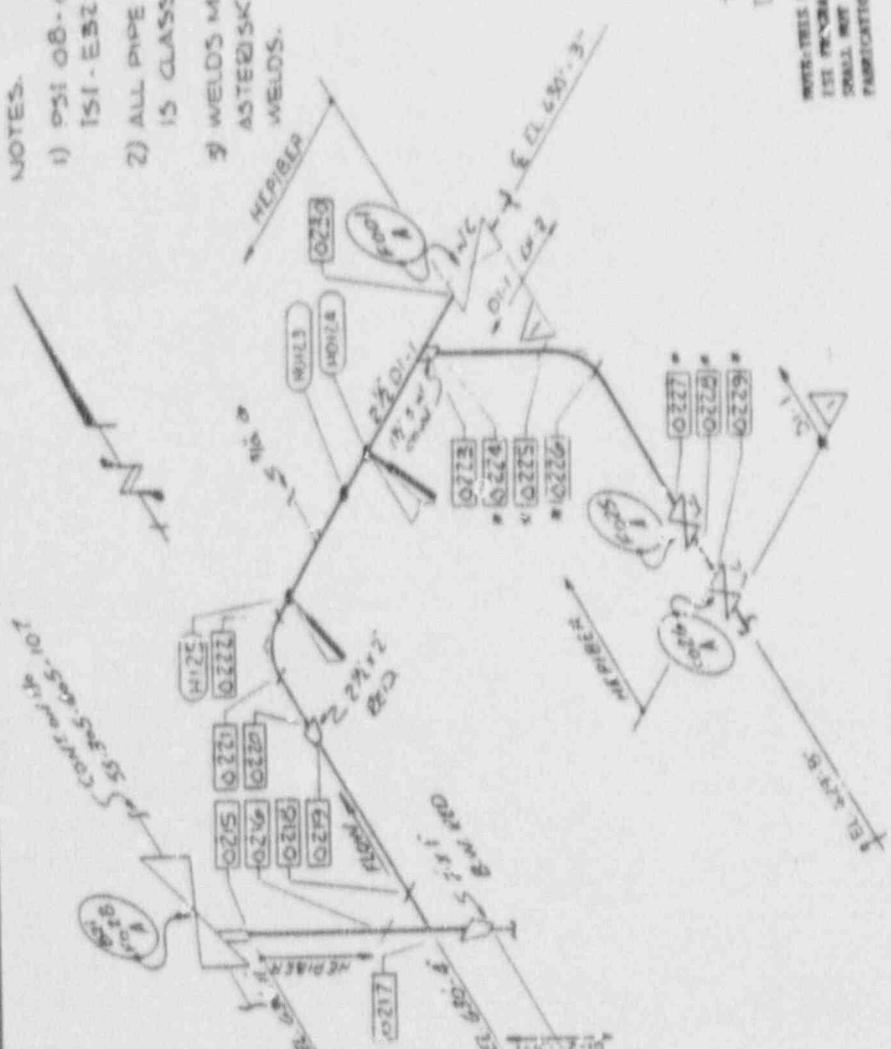
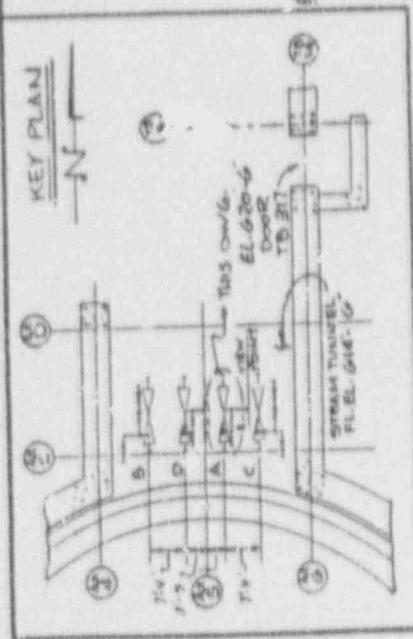
VALVES / PUMP WELD ARRANGEMENT  
 35-308-101-114 A



**BYRON JACKSON PUMP**  
 HPCS PUMP COOL WELD ARRANGEMENT  
 (SEE DWG. 35-308-101-103 FOR CONTINUATION OF PIPING)

NO.	DATE	BY	CHKD	APP'D	REV
1	11/11/11	EZZ			
2					
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4					
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8					
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10					

AWARDED TO CLEAR  
 181 PROGRAM  
 STANDAARDS / SCHEMATIC



NOTES:

1) PSI 08-016  
151-E32-001

2) ALL PIPE ON THIS 150 IS CLASS '1'

3) WELDS MARKED BY ASTERISK ARE SOCKET WELDS.

REV. 016  
D-304-341

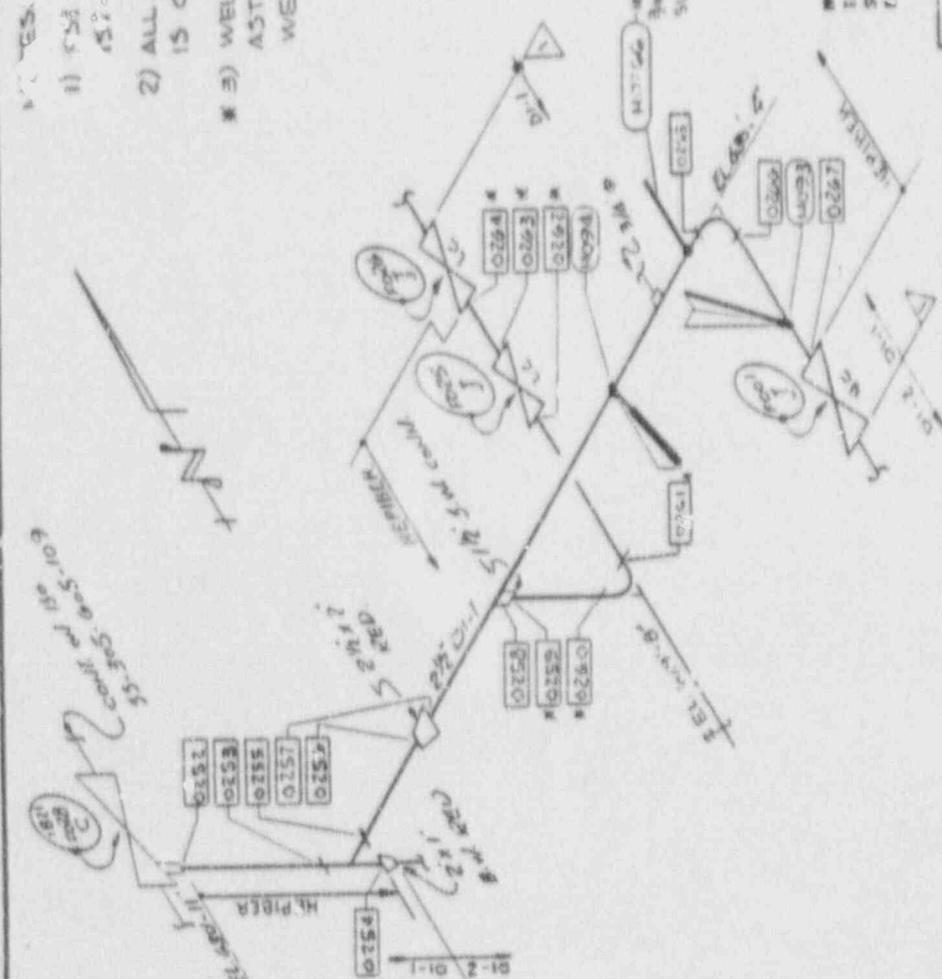
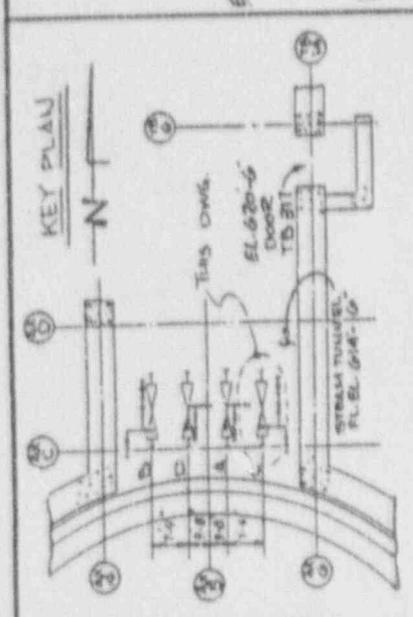
NOTE: THIS DRAWING IS FOR 151 PIPING FOR ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CHEMICAL ELECTRIC ENGINEERING COMPANY	
Project Number	PSI 08-016
Sheet	1
151 PIPING 150 SYS E32	
NEW LEAKAGE CONTROL SYSTEM	
STEAM TUBES FILEL 614-10	
DATE	1/1/78
BY	JLH
CHECKED	WJA
APP'D	WJA
SCALE	AS SHOWN
55-905-341-101	
232	

REVISED TO CURRENT  
151 PROGRAM  
STANDARD FORMAT  
PER DCN 3542

NO.	1	2	3	4	5
DATE	1/1/78	1/1/78	1/1/78	1/1/78	1/1/78
BY	JLH	WJA	WJA	WJA	WJA
CHECKED	WJA	WJA	WJA	WJA	WJA
APP'D	WJA	WJA	WJA	WJA	WJA





- NOTES:
- 1) FSI 200-06  
FSI-532-001
  - 2) ALL PIPE ON THIS IS0 IS CLASS '1'
  - 3) WELDS MARKED WITH ASTERISK ARE SOCKET WELDS.

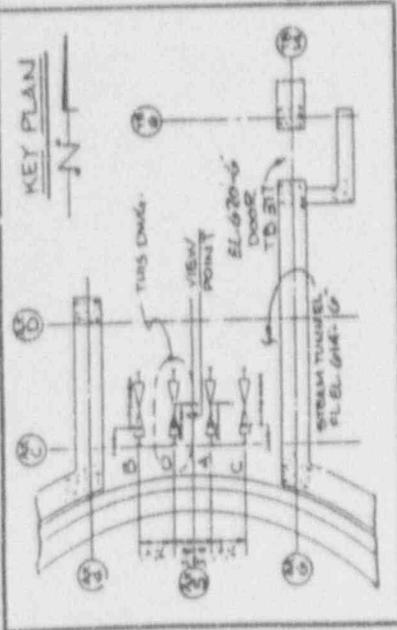
NOTE THIS POINT IS FOR THE 30" BRANCH AND DOES NOT SUPPORT THE 12" LINE.

REF. DWG.  
D-204-341

NOTE: THIS DRAWING IS FOR THE IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

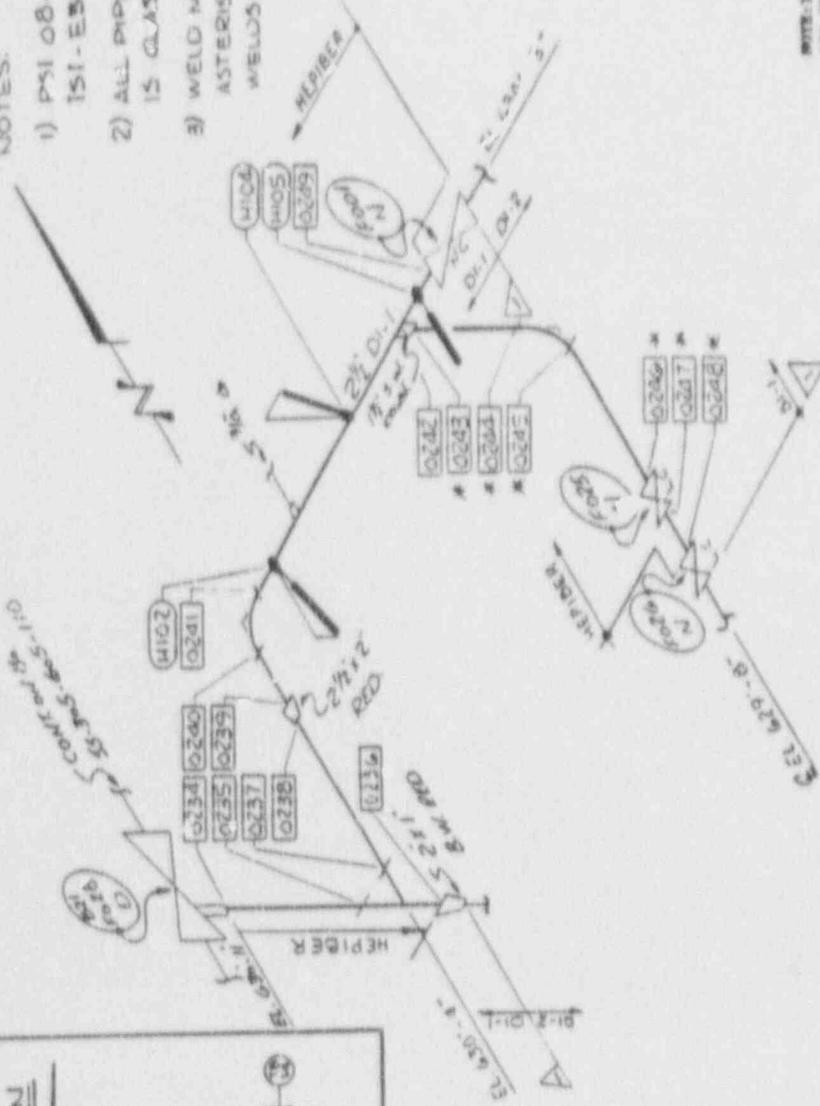
THE GEORGE ELECTRIC ILLUMINATING COMPANY	
PROJECT: Nuclear Power Plant	DATE: 1961
IS1 PIPING IS0 SYS E32	
LOW VOLTAGE CONTROL SYSTEM	
STREAM TUNNEL FL. EL. 614'-0"	
NO.	DATE
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2	3/1/61
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100	3/1/61

REV.	DATE	BY	CHKD.
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2	3/1/61	H	H
3	3/1/61	H	H
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99	3/1/61	H	H
100	3/1/61	H	H



NOTES:

- 1) PSI 08-07  
151-E52-002
- 2) ALL PIPE ON THIS 150 IS CLASS 'I'
- 3) WELD MARKED WITH AN ASTERISK ARE SOCKET WELDS.



REF. DWS.  
D-204-241

NOTES: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

INC. DEVELOPED ELECTRIC ILLUMINATING COMPANY	
Project No.	151-E52-002
Sheet No.	1
151 PIPING 150 SYS-E52	
LOW LEAKAGE CONTROL SYSTEM	
STEAM TUBEL FL. EL. 614'-0"	
DATE	10/1/53
BY	J. R. B.
CHECKED	J. R. B.
APPROVED	J. R. B.
PROJECT NO.	151-E52-002
SHEET NO.	1
TITLE	151 PIPING 150 SYS-E52

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542					
DATE	BY	CHECKED	APPROVED		
10/1/53	J. R. B.	J. R. B.	J. R. B.		

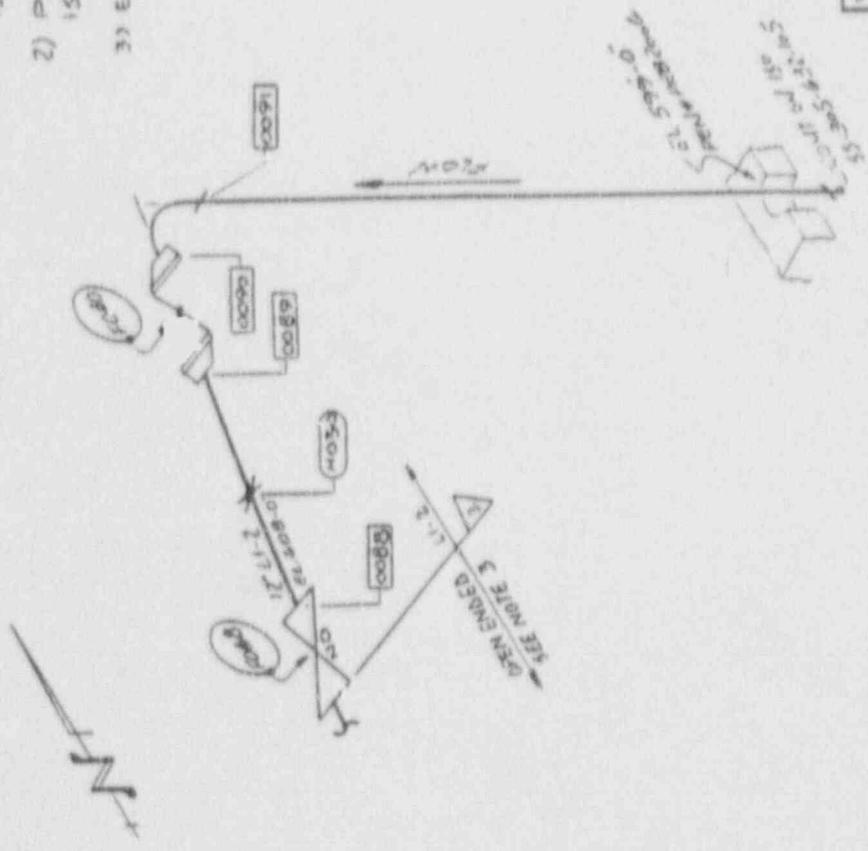
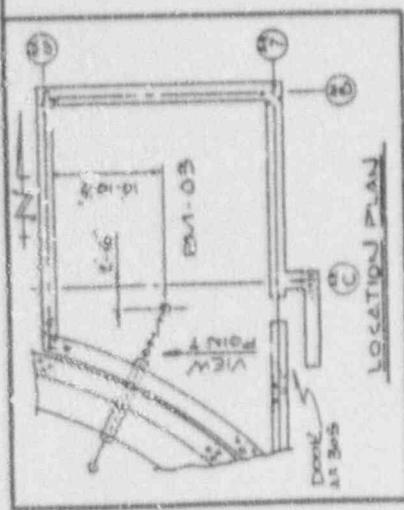
NOTES:

- 1) ALL PIPING ON THIS IS 15 CLASS 2"
- 2) PSI 06-02  
151-ESI-002
- 3) EMPTY PER CC-N-408.

REF DWG:-  
D-204-632  
D-204-629

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Pump Plant	Sheet No: 1
151 Program 150	213-ESI
Pump Plant Control Installation Complete	
Scale: 1/4" = 1'-0"	Sheet No: 151-ESI-002
Author: J.P.	Check: J.P.
Date: 1-1-67	Scale: 1/4" = 1'-0"
Weight: 55.305	621-101
Project: 151	Sheet: 151-ESI-002



REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
151 PROGRAM
REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
151 PROGRAM
REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
151 PROGRAM
REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542
151 PROGRAM

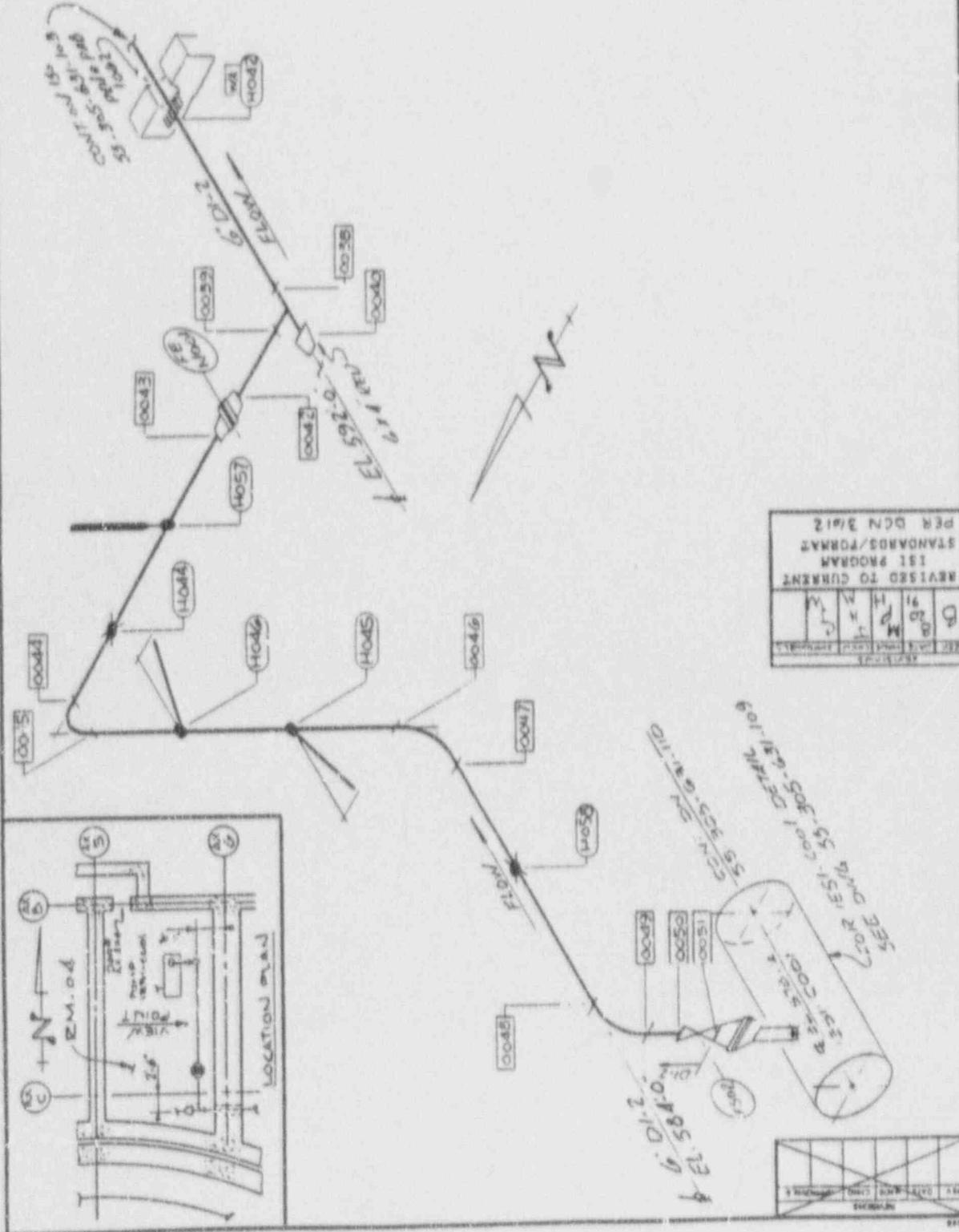
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS '2'
- 2) M51 06-04 151-E51-004

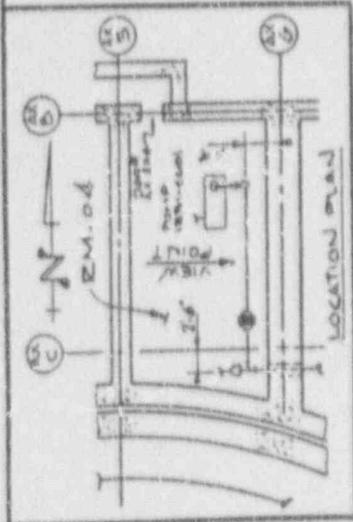
REF DWG:  
 0-204-1-21  
 0-204-1-25

NOTE: THIS DRAWING IS FOR  
 1ST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER: Power Plant	
151 PIPING 150	515 E51
REAR COOL. ISOLATION COOLING	
AUX BLDG. FL. EL. 578-10	
DATE	PROJECT NO.
BY	NO.
CHECKED	NO.
DATE	NO.
55-305-63-1102	



REV	DATE	BY	CHKD	DESCRIPTION
1				REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCN 3612

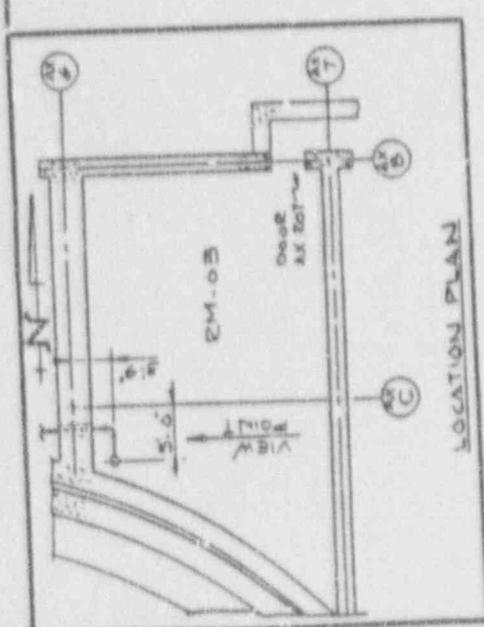
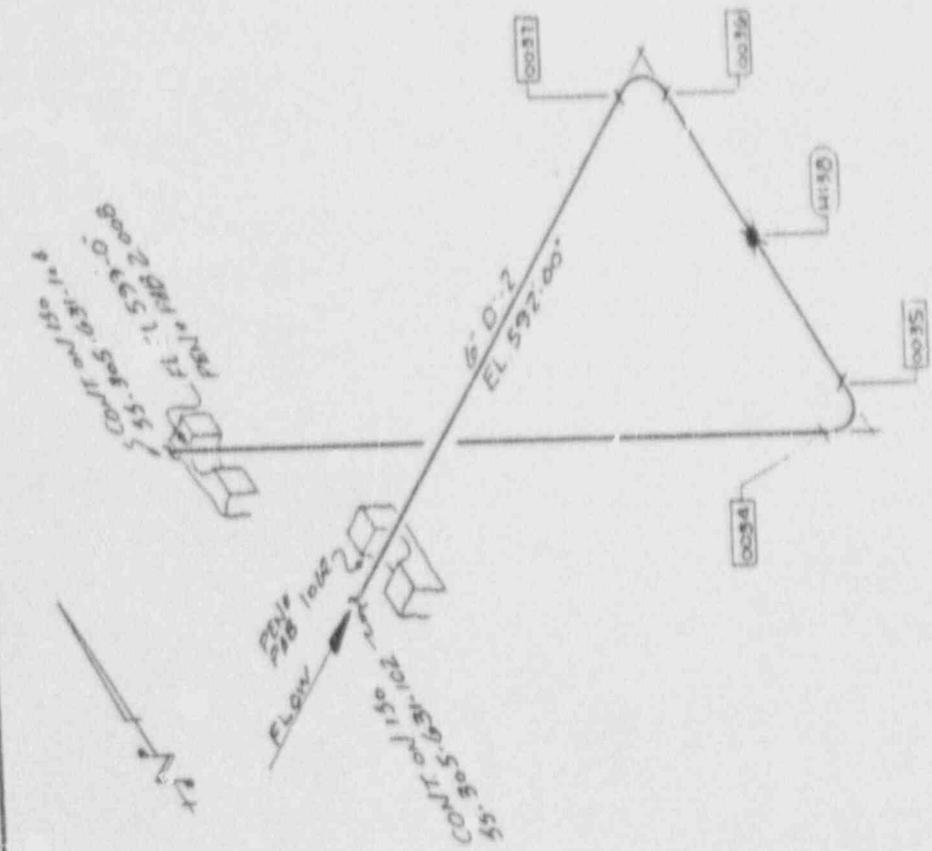


NOTES:

- 1) ALL PIPING ON THIS IS 150 LB CLASS 2
- 2) PSI 06-04
- 151-ESI-004

REF D-204-62

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



THE STANDARD ELECTRIC ILLUSTRATING COMPANY	
Project Name: Power Plant	Sheet: 1
151 PIPING 150 511 ESI	
REACTOR CORE ISOLATION COOLING	
AUX BLDG FL EL 574.10	
DATE: 4/1/84	SCALE: AS SHOWN
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DATE: 4/1/84	SCALE: AS SHOWN
PROJECT NO: 55-305-631-1C.5	
REV: ESI	

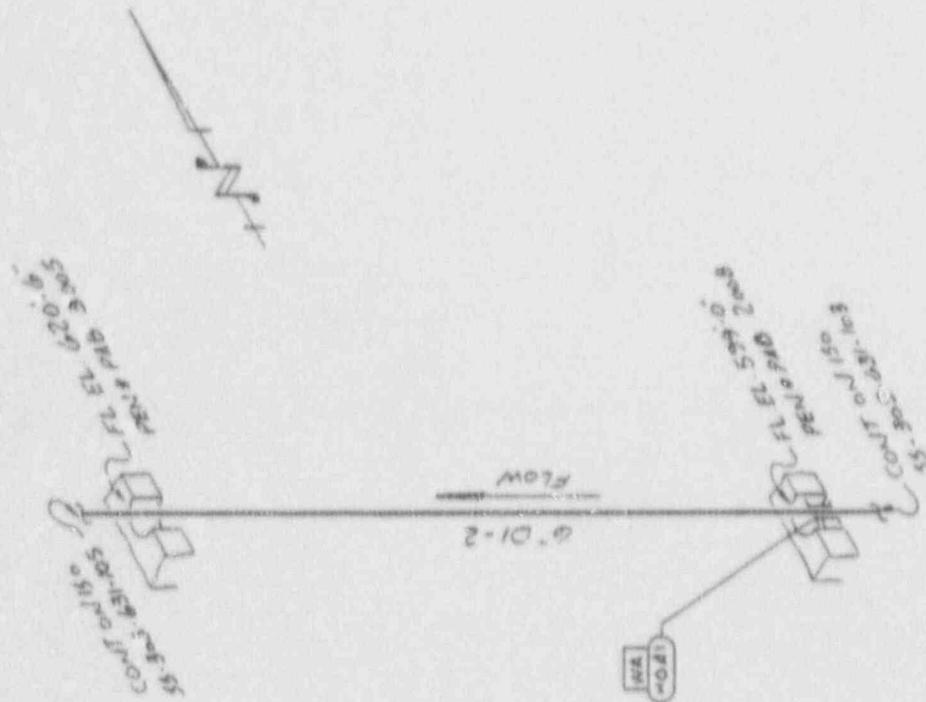
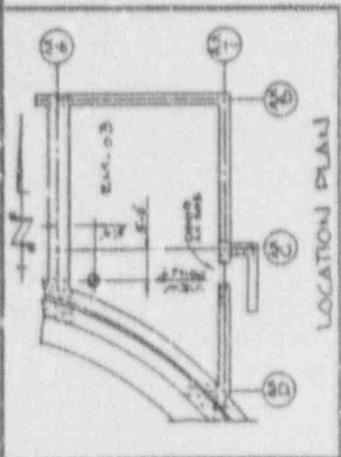
REV	DATE	BY	APP	DESCRIPTION
1	9/8	M	H	REVISSED TO CURRENT STANDARDS/FORMAT PER DCN 3612

NOTES:

- 1) ALL PIPING ON THIS ISD IS CLASS 2
- 2) PSI 06-04  
151-ES1-002

REF. DWG.  
D-504-631  
D-504-633  
NOTES: THESE DRAWINGS IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE OLDFIELD ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	151-ES1-002
DATE	11/11/82
ISSUE	1
151 PIPING ISD 513. ESI	
REACTOR CORE ISOLATION COOLING	
ALFA ROMEO, FL. EL. 500-0	
REV.	DATE
1	11/11/82
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REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542
DATE: 11/11/82
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

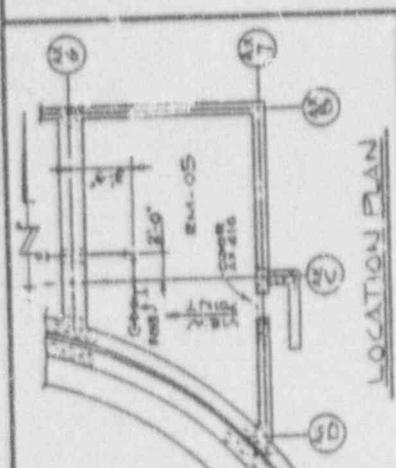
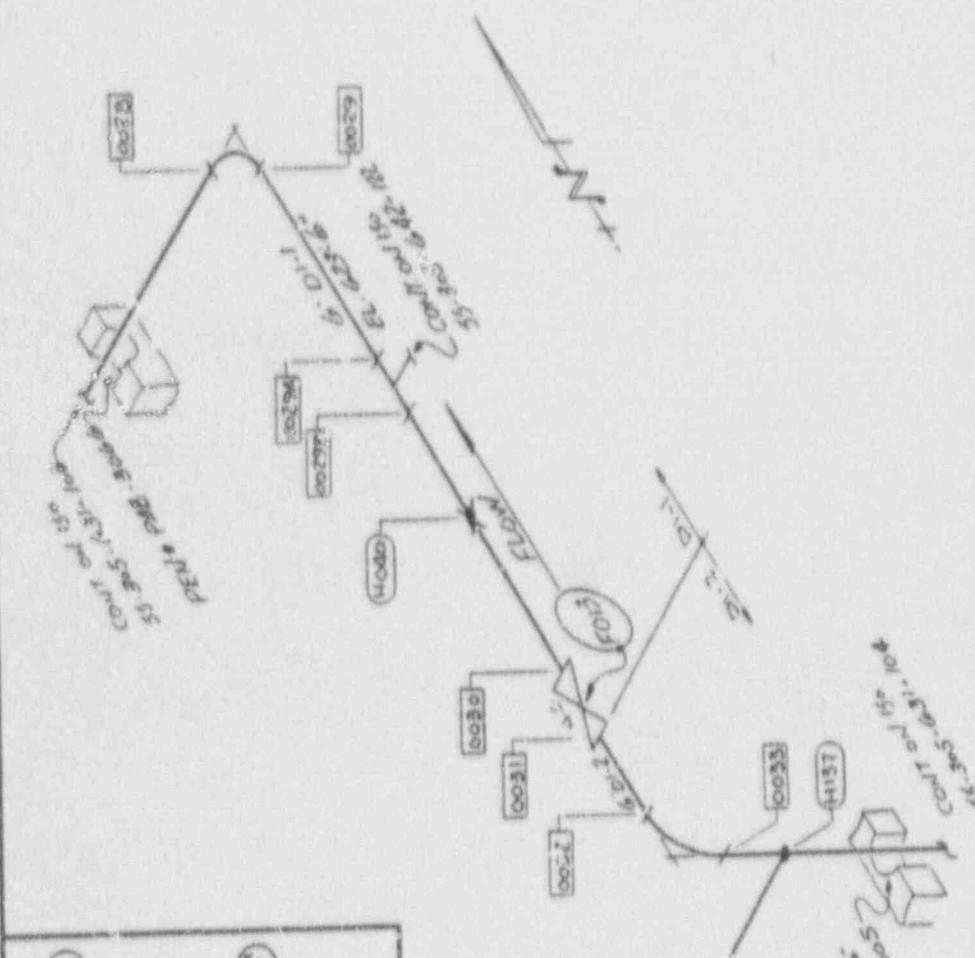
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS 1:2
- 2) PSI 06-04 & 06-03 151 ESI-004 & ESI-003

SEE DRAWING  
0-204-1-1-2

NOTE: THIS DRAWING IS FOR  
ESI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION, INSTALLATION

THE LEVELING ELECTRIC ILLUMINATING COMPANY	DATE	1
PROJECT NAME: Power Plant	NO.	1
SSI PIPING 150	SSI ESI	
REACTOR CORE ISOLATION COOLING		
DATE: 06-11-68	FILE: 06-03-0	
DESIGNER: N. J. ...	CHECKED: ...	
APPROVED: ...		
DATE: 06-11-68		
PROJECT NO: 151-109-506	REV: 1	
DATE: 06-11-68		



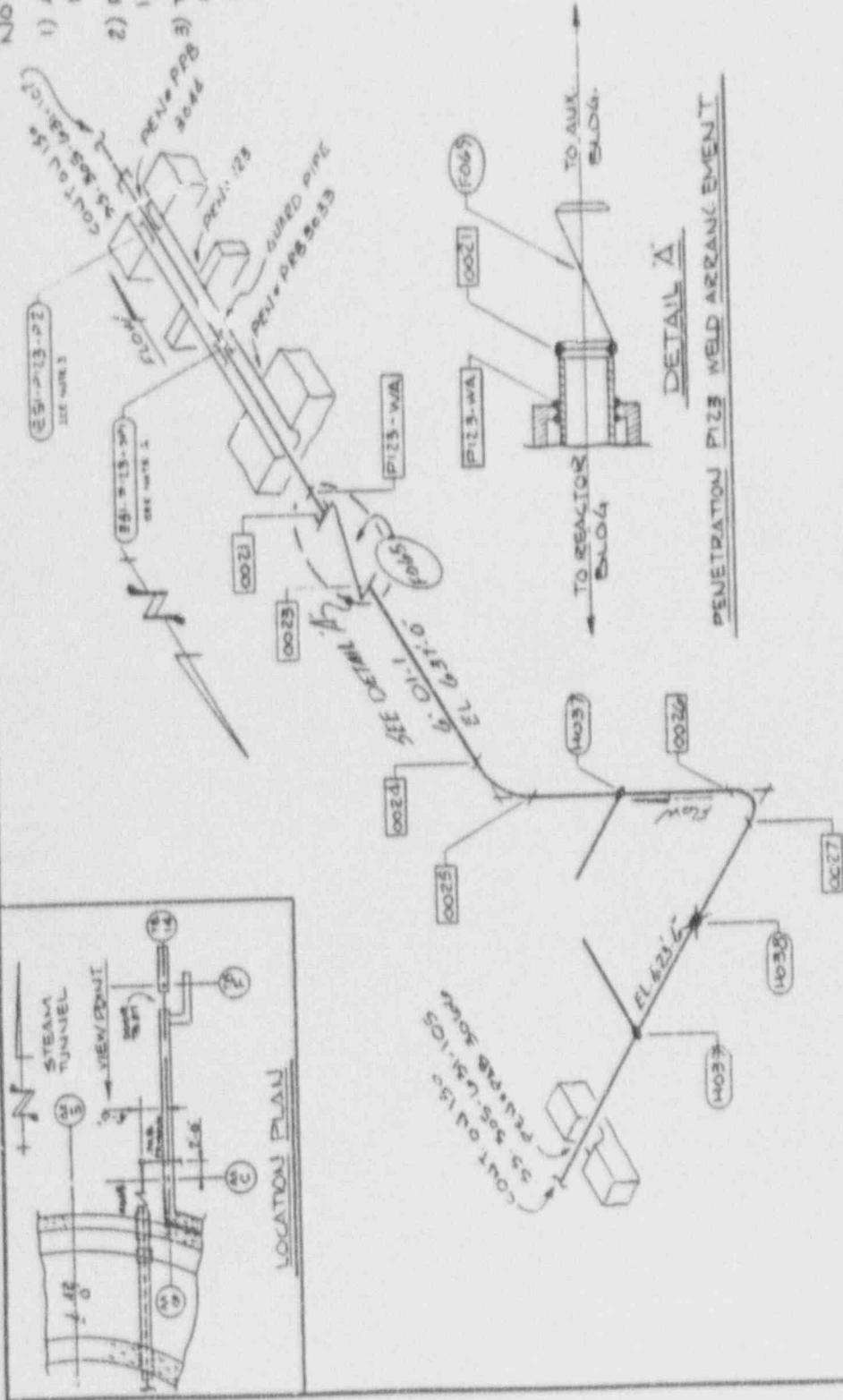
REVISED TO CURRENT	D	1	
ESI PROGRAM	B	2	
STANDARDS/FORMAT	M	3	
PER DCN 5412	H	4	
	V	5	
	M	6	
	H	7	
	M	8	
	H	9	
	M	10	

**NOTES:**

- 1) ALL PIPING ON THIS IS0 15 CLASS 1
- 2) PSI 06-03 151-ESI-003
- 3) THIS SUPPORT IS INSIDE THE PENETRATION GUARD PIPE AND THEREFORE IS UNACCESSIBLE FOR EXAMINATION.

SEE DWGS  
0-204-622  
0-204-624

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION



**DETAIL A**  
PENETRATION PIPE WELD ARRANGEMENT

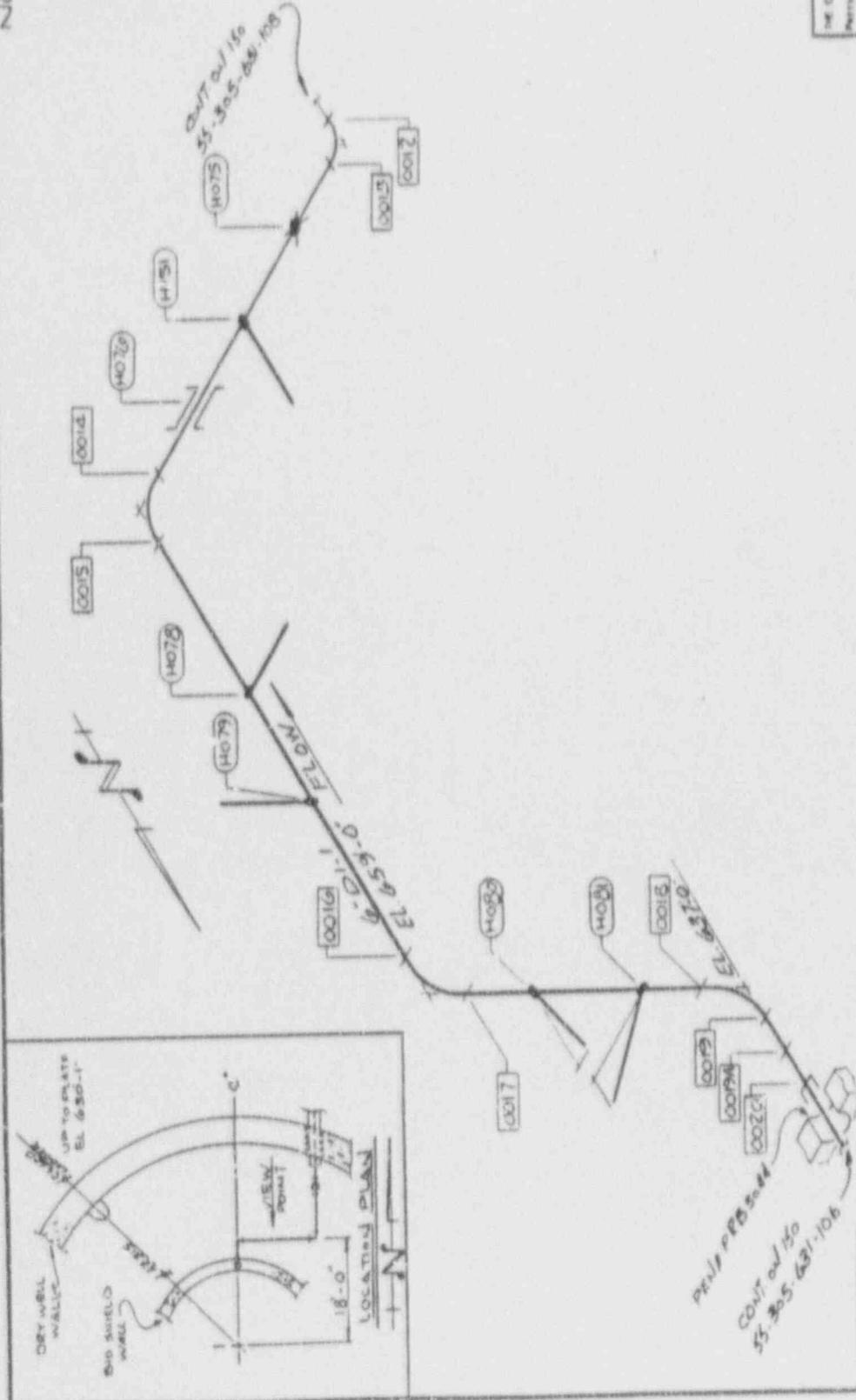
THE GEORGE ELECTRIC ILLUMINATING COMPANY	
Project Number	151-ESI-003
Sheet	1
151 PIPING IS0 15 CLASS 1	
REACTOR CORE ISOLATION COOLANT	
STEAM TUNNEL P. EL. 680-6'	
DATE	06/21/81
BY	WJH
CHECKED	WJH
APPROVED	WJH
SCALE	AS SHOWN
DATE	06/21/81
BY	WJH
CHECKED	WJH
APPROVED	WJH

REV	DATE	BY	CHKD	APPROVED
1	06/20/91	WJH	WJH	WJH
2	06/21/81	WJH	WJH	WJH

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612

NOTES:

- 1) ALL FHS-116 OR TATS 150 IS CLASS 1.
- 2) PSI 06-03 151-ESI-003



SEE DRAWING D-109-534

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

Project Name: *Plant 151*

Sheet: *151* of *1*

151 PIPING: *150 573-ESI*

REACTOR CORE ISOLATION CASING

REACTOR BLDG. PLATE: *620-1*

REVISED TO CURRENT STANDARDS/FORMAT

REVISED TO CURRENT STANDARDS/FORMAT				
1	2	3	4	5
10/18/54	11/14/54	11/14/54	11/14/54	11/14/54
J.P.	H.L.	H.L.	H.L.	H.L.
151	151	151	151	151

PER DEN 3612

REVISED TO CURRENT STANDARDS/FORMAT

151 PROGRAM

151	151	151	151	151	151
10/18/54	11/14/54	11/14/54	11/14/54	11/14/54	11/14/54
J.P.	H.L.	H.L.	H.L.	H.L.	H.L.
151	151	151	151	151	151

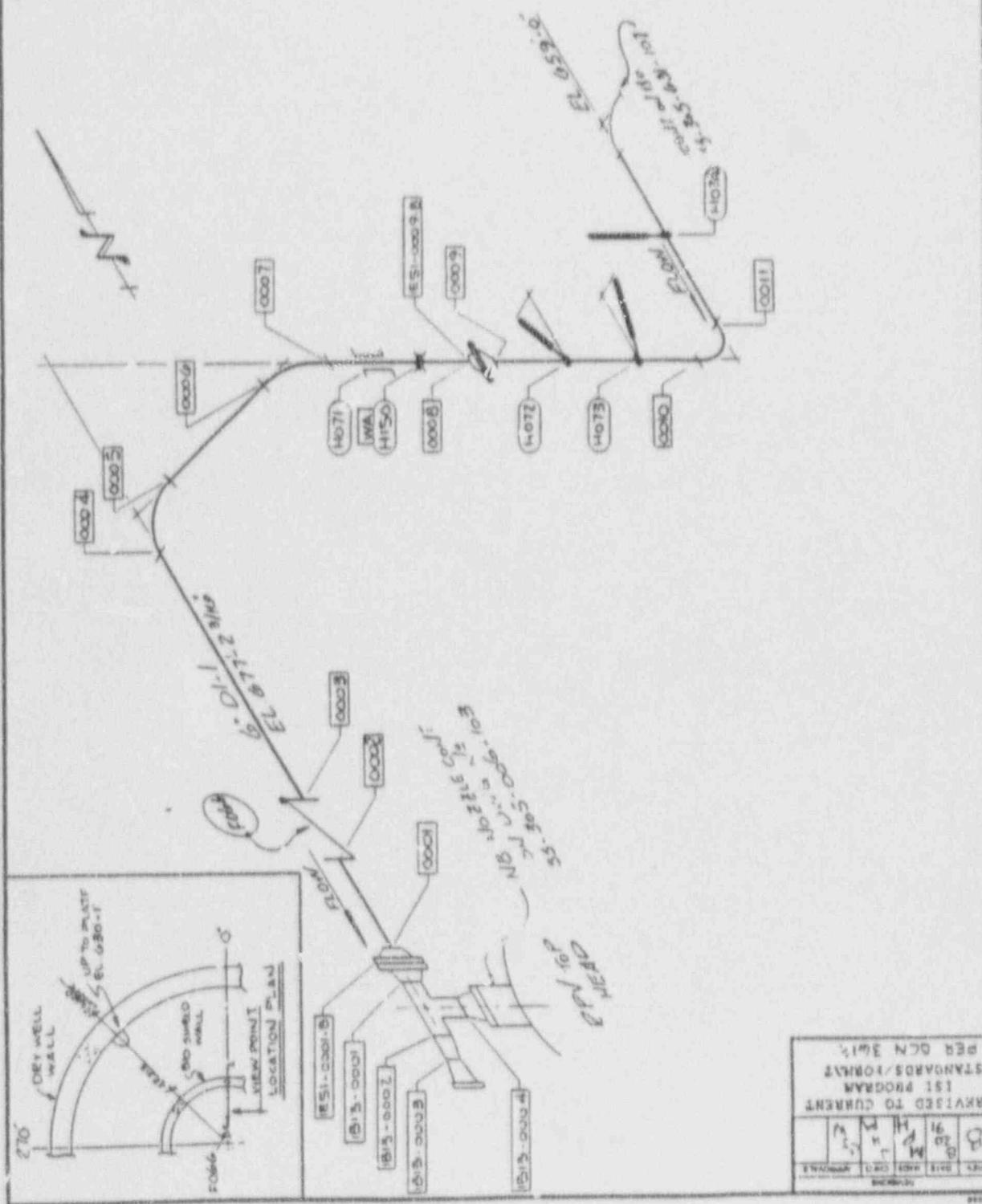
**NOTES:**

- 1) ALL PIPING ON THIS IS 15 CLASS '1'
- 2) PSI 06-03  
151-ES1-003

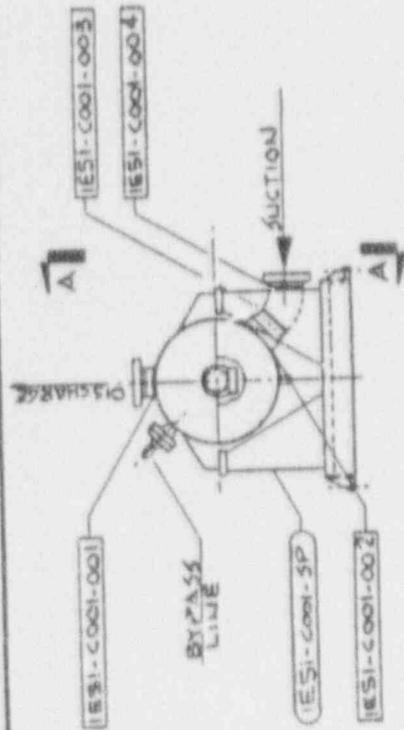
*DEF LINE  
D-301-7-E*

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION.

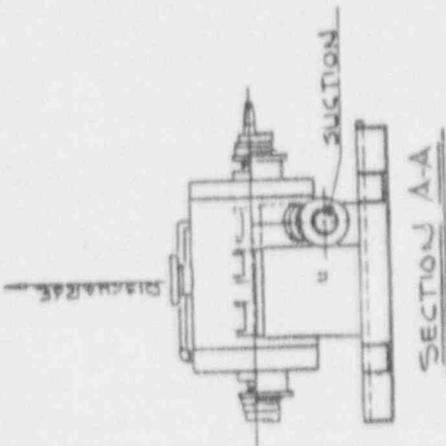
THE FOLLOWING ELECTRIC ILLUMINATION SYMBOLS	
Part Number	Part Name
151-00000-00	151-ES1
REACTOR CORE ISOLATION CABINET	
DESIGN: E. B. D. PLATE 151-000-001	
Scale	1/4" = 1'-0"
Author	J. H. H. / J. H. H.
Check	J. H. H. / J. H. H.
Date	11-19-68
Drawn	J. H. H.
Project	151-ES1-003
Sheet	1 OF 1



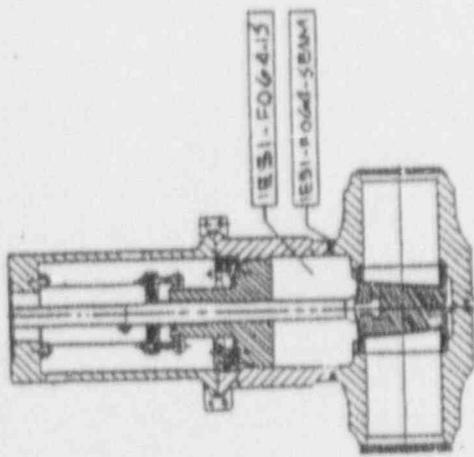
REV	DATE	BY	APPROVED
1	11-19-68	J. H. H.	J. H. H.
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMATS PER DCN 3617			



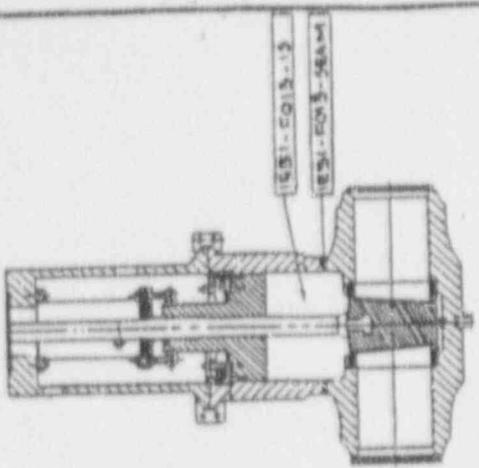
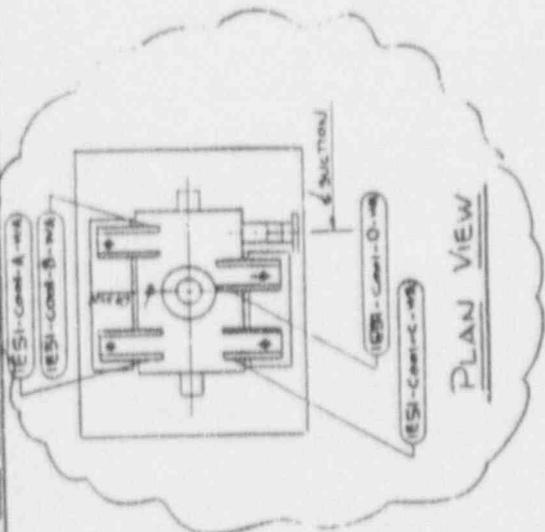
DUNHAM PUMP CO.  
PCIC PUMP COOL WELD ARRANGEMENT



DATE	BY	CHKD	APP'D
10/20/51	WJ	WJ	WJ
REVIEWED TO CURRENT IAI PROGRAM STANDARDS/FORMAT			



BORG WARNER VALVE 12  
PCIC GATE VALVE F066 / F064 WELD ARRANGEMENT



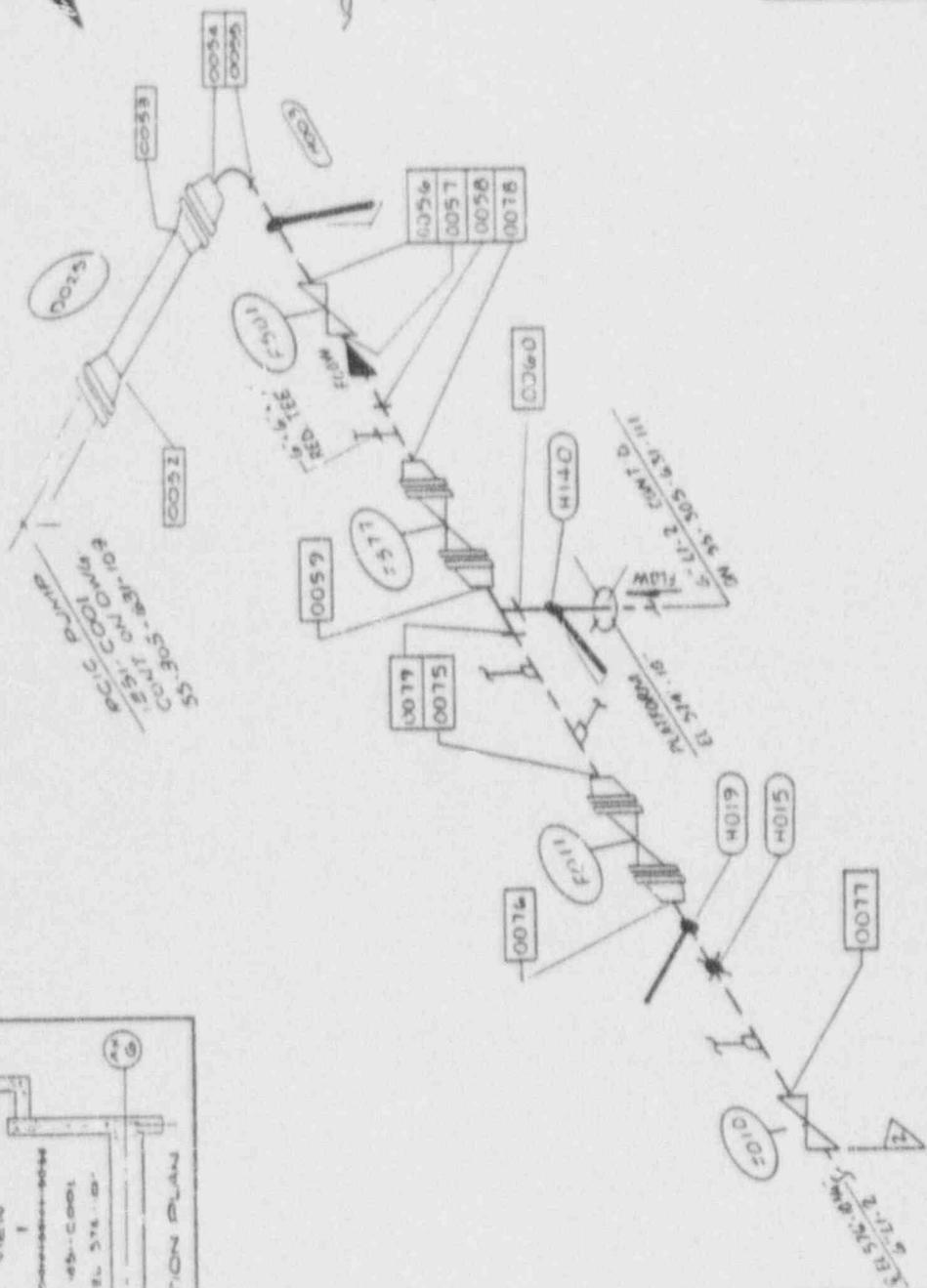
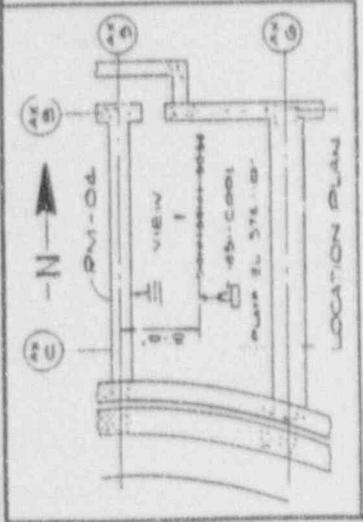
BORG WARNER VALVE 6  
PCIC GATE VALVE F502 / F013 WELD ARRANGEMENT

- NOTES:
- 1) 1E51-C001:  
PSI 06-07 151-E51-007
  - 2) 1E51-F066 / F064:  
PSI 06-05 151-E51-005
  - 3) 1E51-F013 / F502:  
PSI 06-06 151-E51-006

NOTES: THIS DRAWING IS FOR  
LIST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Heavy Machine Power Plant

151	151-E51
PUMP / VALVES WELD ARRANGEMENT	
DATE	BY
10/20/51	WJ
CHKD	WJ
APP'D	WJ
DRAWN: 151-109	
SCALE: AS SHOWN	



NOTES

- 1) ALL PIPING ON THIS IS CLASS 2.
- 2) 251 04-04  
:51 25-004
- 3) ALL PIPING ON THIS IS 150 LB (3.73" NWT, AELU) AND SUPPORTS ON THIS PIPING DO NOT REQUIRE AELU (1.2504" NWT) (LARGE CASE 4.008).

REF. DWG. D-204-621

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
Project Number	Power Plant
Sheet 1	
151 PIPING ISO SYS ESI	
OPERATOR COPE ISOLATION	
COOLING AIR BLOC EL 574-C	
DATE	10/1/88
BY	JR
CHECKED	10/1/88
BY	10/1/88
SCALE	AS SHOWN
APP'D	10/1/88
BY	10/1/88
DATE	10/1/88
BY	10/1/88

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORAM  
PER DCN 2774 DCN  
3542 AND DCN 3630

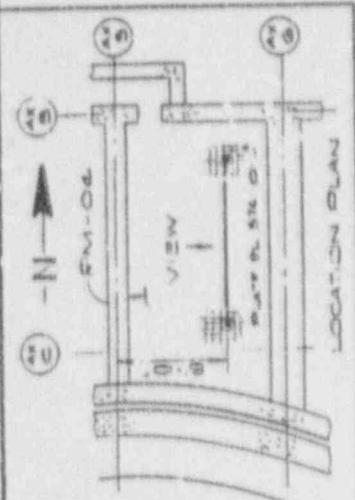
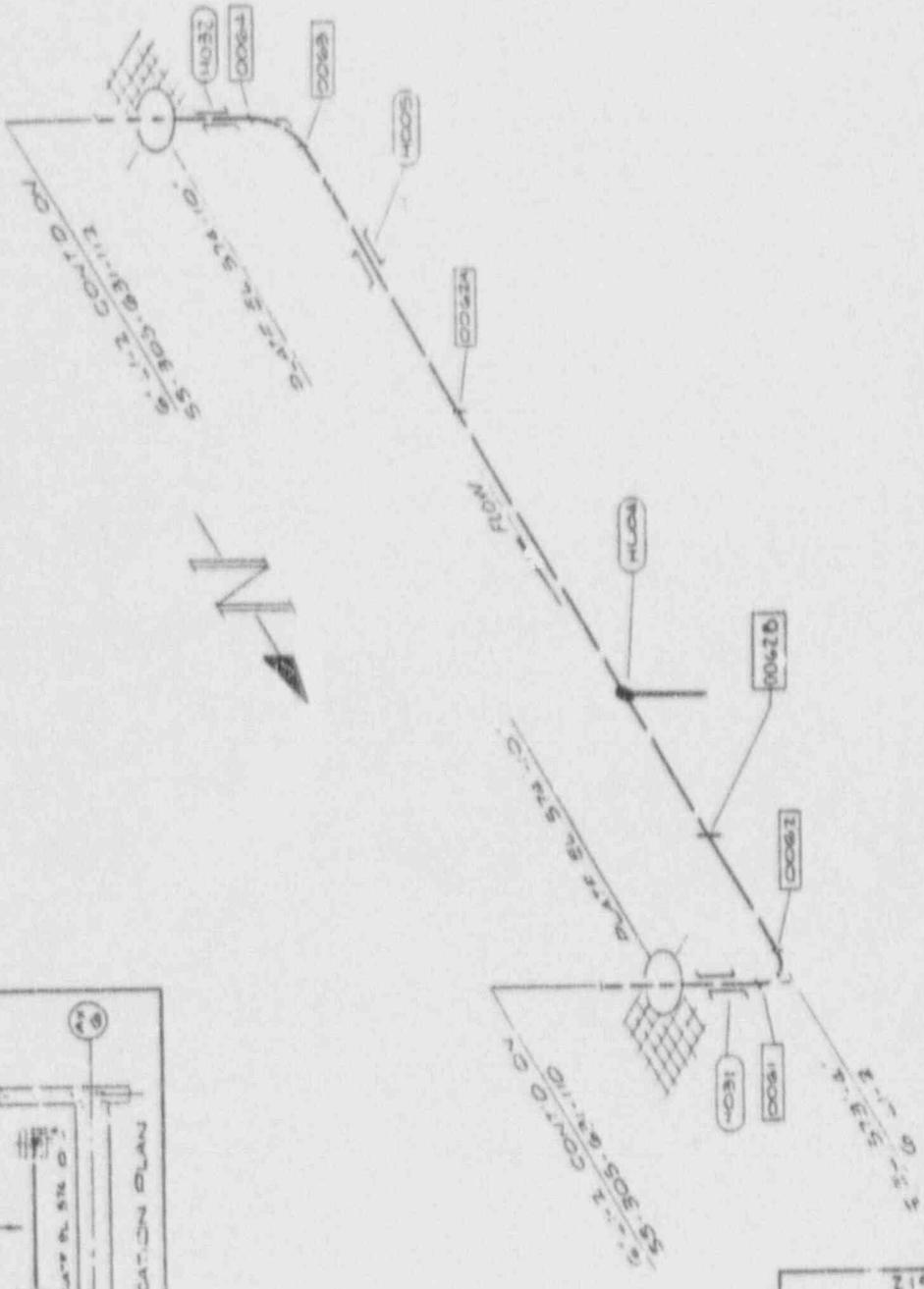
**NOTES**

- 1) ALL PIPING ON THIS ISO IS CLASS 'I'.
- 2) PSI 06-04  
151 E51-004
- 3) ALL PIPING ON THIS ISO IS 4.315" IWT. WELDS AND SUPPORTS ON THIS PIPING DO NOT REQUIRE SERVICE W/REPAIR UNLESS CASE W/2.

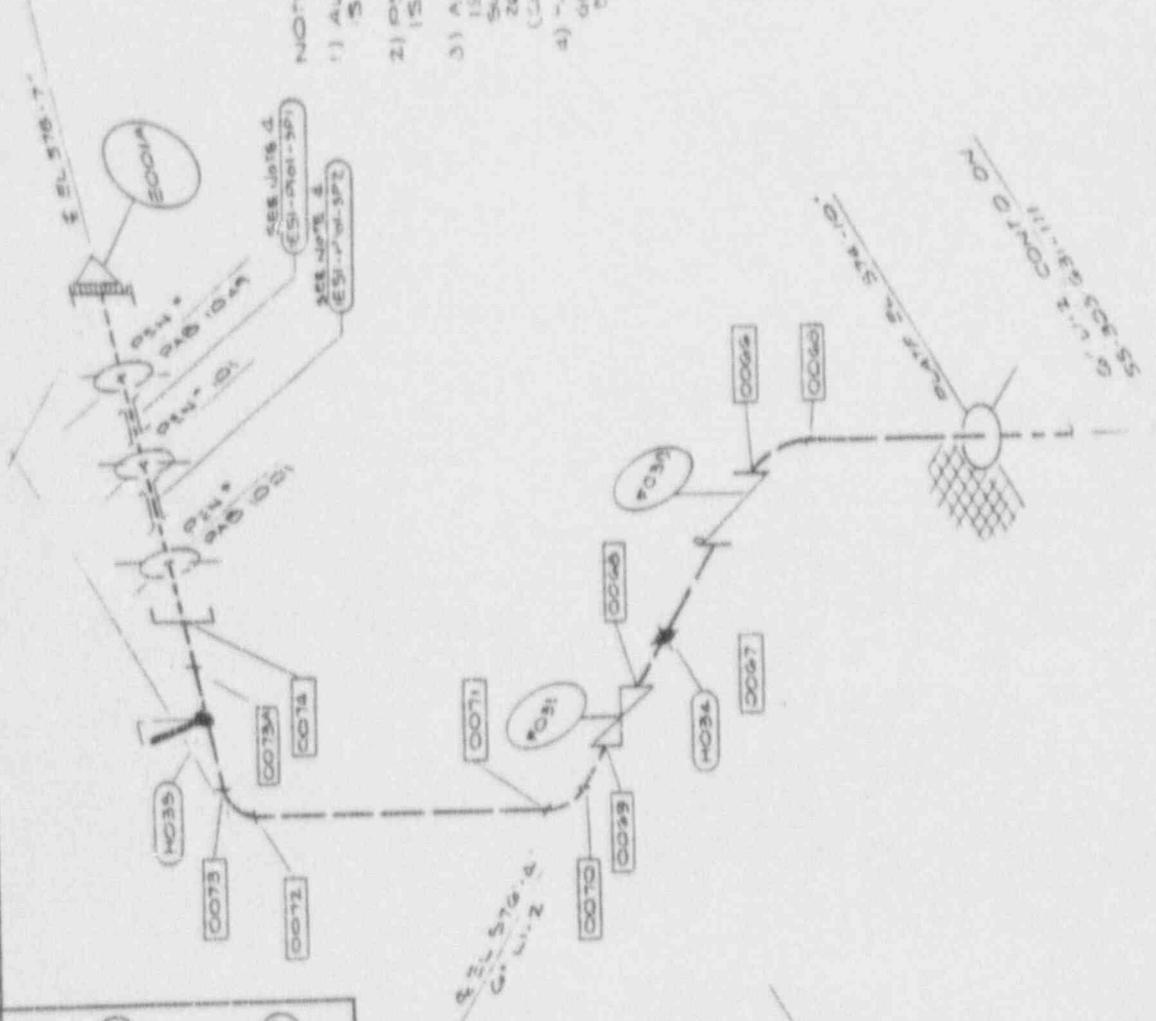
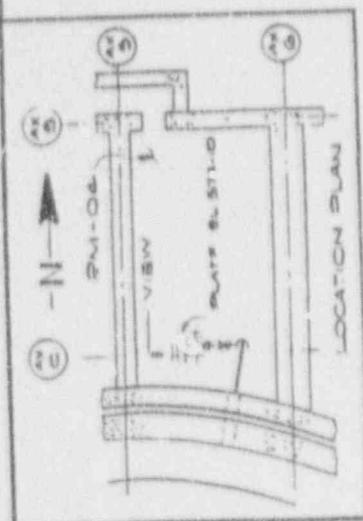
TEL: 746  
D-30A-631

NOTICE: THIS DRAWING IS FOR ISM PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ALPHABETIC CODES:			
Letter	Machine	Code	Plant
I	ISO	515	ES1
REACTOR CORE ISOLATION			
COOLING AUK BLOC EL 515-C			
Code	Machine	Code	Plant
151	ES1	04	ES1
151	ES1	04	ES1
151	ES1	04	ES1
151	ES1	04	ES1
151	ES1	04	ES1
151	ES1	04	ES1
151	ES1	04	ES1



REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612
REVISED TO CURRENT ISM PROGRAM STANDARDS/FORMAT PER DCN 1777 AND DCN 3612	DCN 3612



**NOTES**

- 1) ALL PIPING ON THIS ISO IS CLASS 1.
- 2) PSI: 06-04  
151 ESI-004
- 3) ALL PIPING ON THIS ISO IS 4.315" NPT. WELDS AND SUBSTITUTES ON THIS DRAWING REQUIRE SERVICE DISPOSITION (SEE CASE 4.303).
- 4) THIS SYMBOL IS INSIDE DEVIATION SYMBOLS HAVE "WELDED" IN ADDRESS DUB THE DIMENSIONS.

REF DWG  
D-3 4-215

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE FOLLOWING ELECTRICAL EQUIPMENT CONFORMS TO THE FOLLOWING STANDARDS:	
WIRE NUMBER	WIRE TYPE
151 ESI	150 SYS ESI
REACTOR CORE ISOLATION	
COOLING AUX. SLOC EL. 574.0	
DATE	BY
1/14/48	W.A. K.C.
NO. 1	REV. 1
ISS. 304-020-172	6
DATE	REV.
1/14/48	1

REVISED TO COMMENT	DATE	BY
ISI PROGRAM	1/14/48	W.A. K.C.
STANDARDS/FORMAT		
PER DCN 3012		

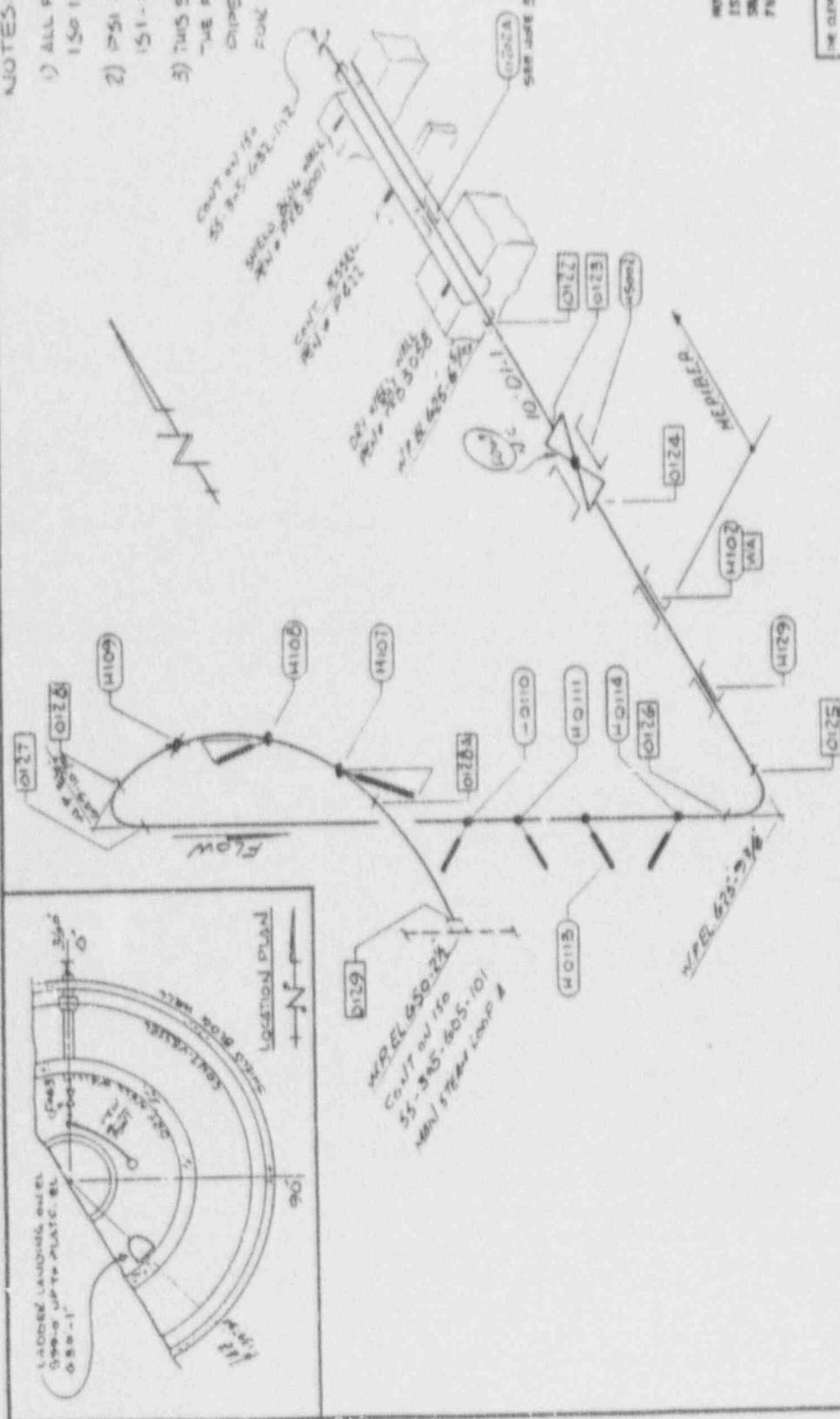
NOTES

- 1) ALL PIPING ON THIS ISOL IS CLASS I
- 2) PSI 06-01  
151-ES1-001
- 3) THIS SUPPORT IS INSIDE THE PENETRATION GUARD CHASE AND IS INACCESSIBLE FOR EXAMINATION.

REF 5/84  
D-307-6-59

NOTE: THIS DRAWING IS FOR THE ISOL PROGRAM FOR ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		Sheet 1	
Project: 151 PIPING ISOL 5YS ES1		DATE: 5/84	
REACTOR CORE ISOLATION CONTAINMENT BLDG. PLATE EL 630.1		DRAWN BY: [Signature]	
REV	DATE	BY	REASON
1	5/84	[Signature]	ISSUE FOR CONSTRUCTION
2	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
3	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
4	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
5	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
6	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612



REV	DATE	BY	REASON
1	5/84	[Signature]	ISSUE FOR CONSTRUCTION
2	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
3	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
4	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
5	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
6	5/84	[Signature]	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612

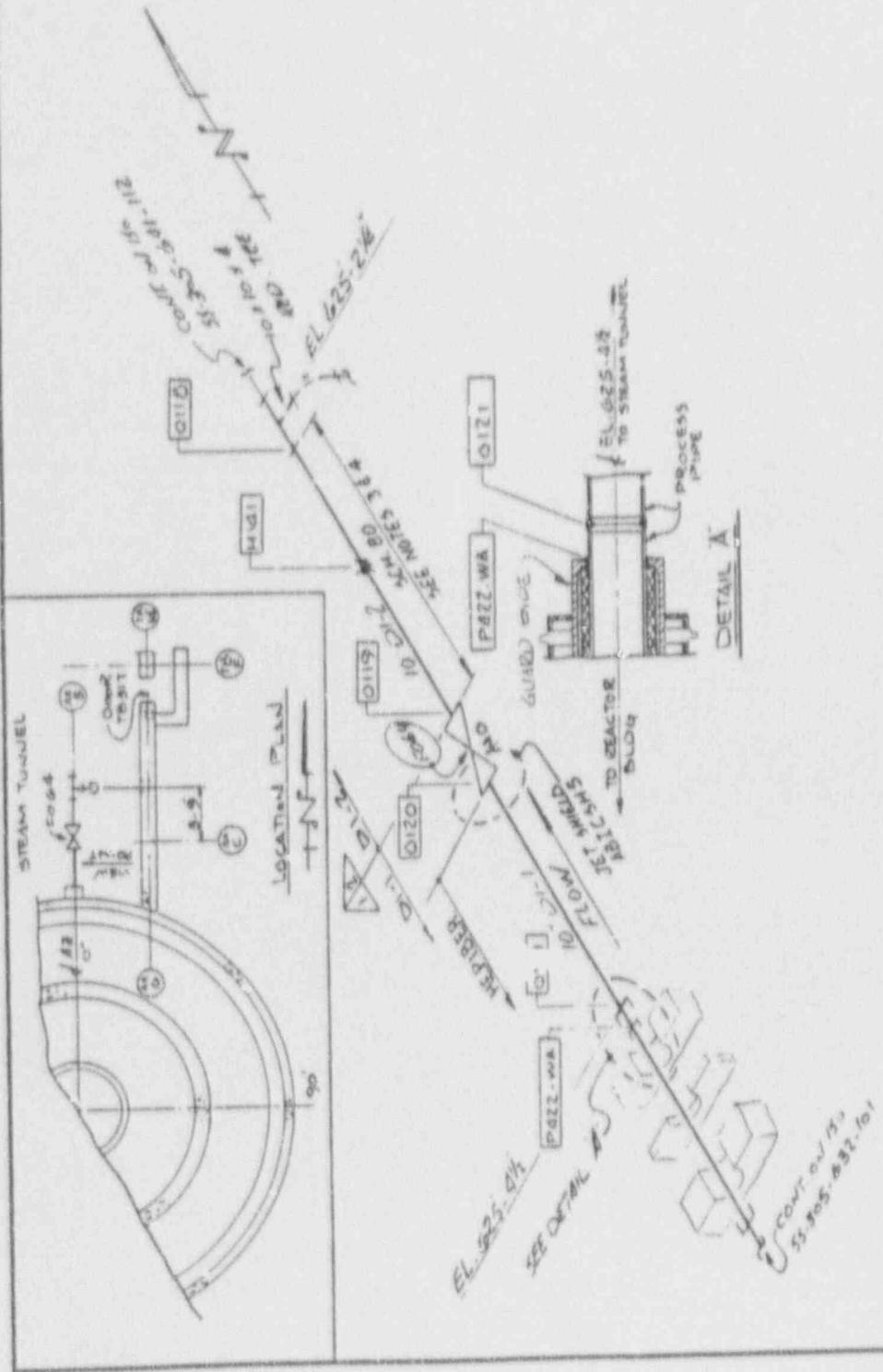
**NOTES:**

- 1) ALL PIPING ON THIS ISO IS CLASS 11Z
- 2) P51 06-01  
151-ESI-001
- 3) D5P ESI RM REQUIRES THE SPOOL BETWEEN WELDS 0119 AND 0118 TO BE PLS 01-2 HOWEVER THIS SPOOL WAS ANALYZED AND INSTALLED PER PLS 01-1
- 4) SCHEDULE 80 PIPING AT WELDS 0119 AND 0118 WERE BUILT UP ON THE INSIDE DIAMETER TO MATCH THE SCHEDULE 100 WELD PREP OF THE VALVE AND TEE.

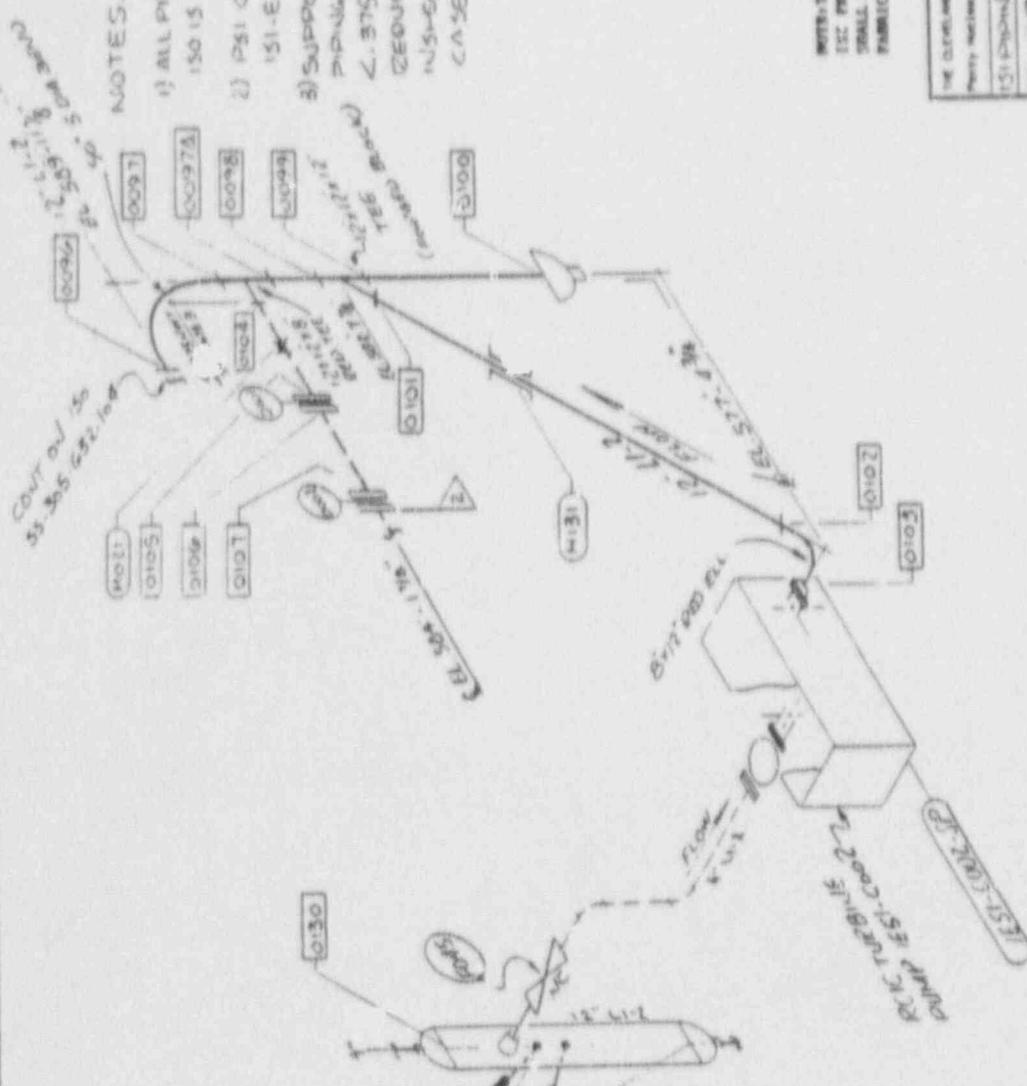
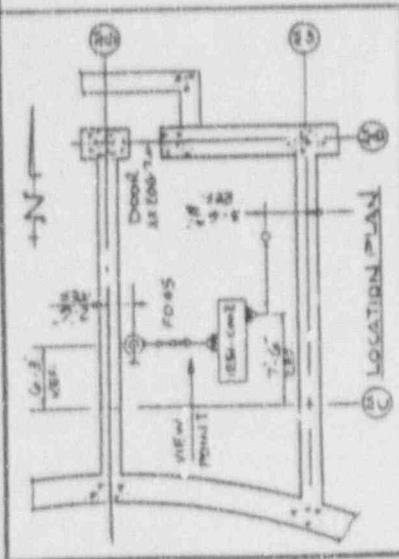
REF. DWG.  
DCC-632

NOTE: THIS DRAWING IS FOR TEST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CHEMUR ELECTRIC ILLUMINATING COMPANY	
Project Number	Sheet #
151-ESI-06-150	ESI
REACTOR CORE ISOLATION COOLING	
STEAM TUNNEL, PL. EL. 016-06	
WELD SYMBOLS	
Symbol	Process
	Shielded Metal Arc
	Shielded Metal Arc
DATE: 05-08-00	
DRAWN BY: J. J. COOPER	



REVISED	13	CURRENT				
STANDARDS / 32 AND						
PER DCM 352 AND						
DCN 3612						



**NOTES:**

- 1) ALL PIPING ON THIS IS 150 LB CLASS 2
- 2) PSI 06-01 & 06-02 151-E51-001 & 002
- 3) SUPPORTS & WELD ON PIPING THAT IS LESS THAN 4.375" THK DO NOT REQUIRE VISUAL INSPECTION AND CASE NO. 008.

REF. DRG. D-304-631

INTER-TRIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATING/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	55-205-632-103
Sheet No.	1
151-0001/6-50	SYN. E5
REACTOR COOLING SOLUTIONS GROUP	
Drawn by	W. J. ...
Checked by	...
Approved by	...
Scale	AS SHOWN
Date	...
Project	55-205-632-103
Sheet	1

REVISED TO CURRENT	DATE	BY
151 PROGRAM		
STANDARDS/FORMAT		
PER DCN 3542		

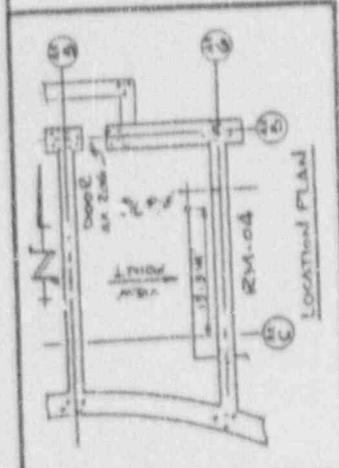
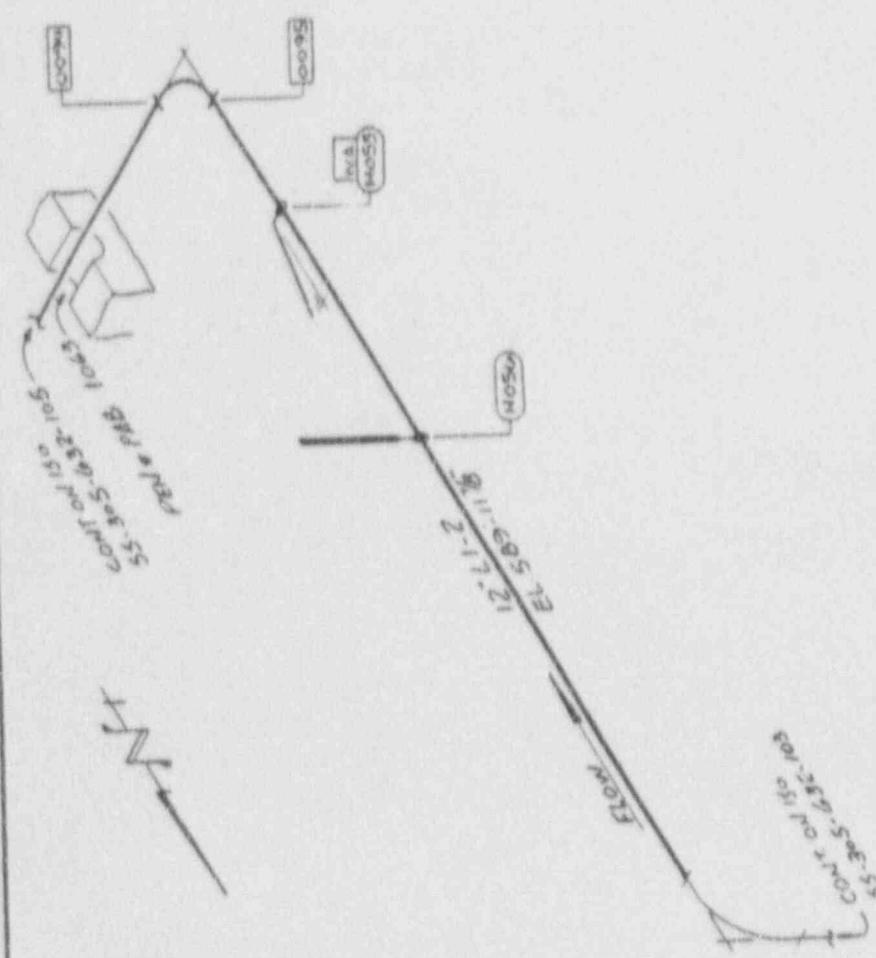
**NOTES:**

- 1) ALL PIPING ON THIS ISO IS CLASS "Z"
- 2) PSI 06-02  
151-ESI-002

EEF DMS  
0-304-621

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUSTRATING COMPANY	
Project Number:	151-001
Sheet:	1
151 PROGRAM ISO	
REACTOR CONT. SOLUTIONS COOLING	
AUX. BLDG. EL. 574.10	
DATE:	11/8
BY:	W
CHECKED BY:	W
DATE:	11/8
SCALE:	AS SHOWN
REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612	
DATE:	55-305-632-60
BY:	W



REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3612
151 PROGRAM
DATE:
BY:
CHECKED BY:
DATE:
SCALE:
AS SHOWN
DATE:
BY:
SCALE:
AS SHOWN

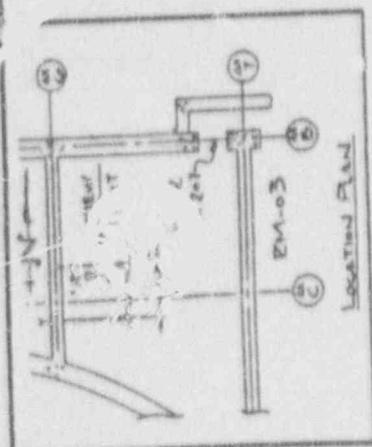
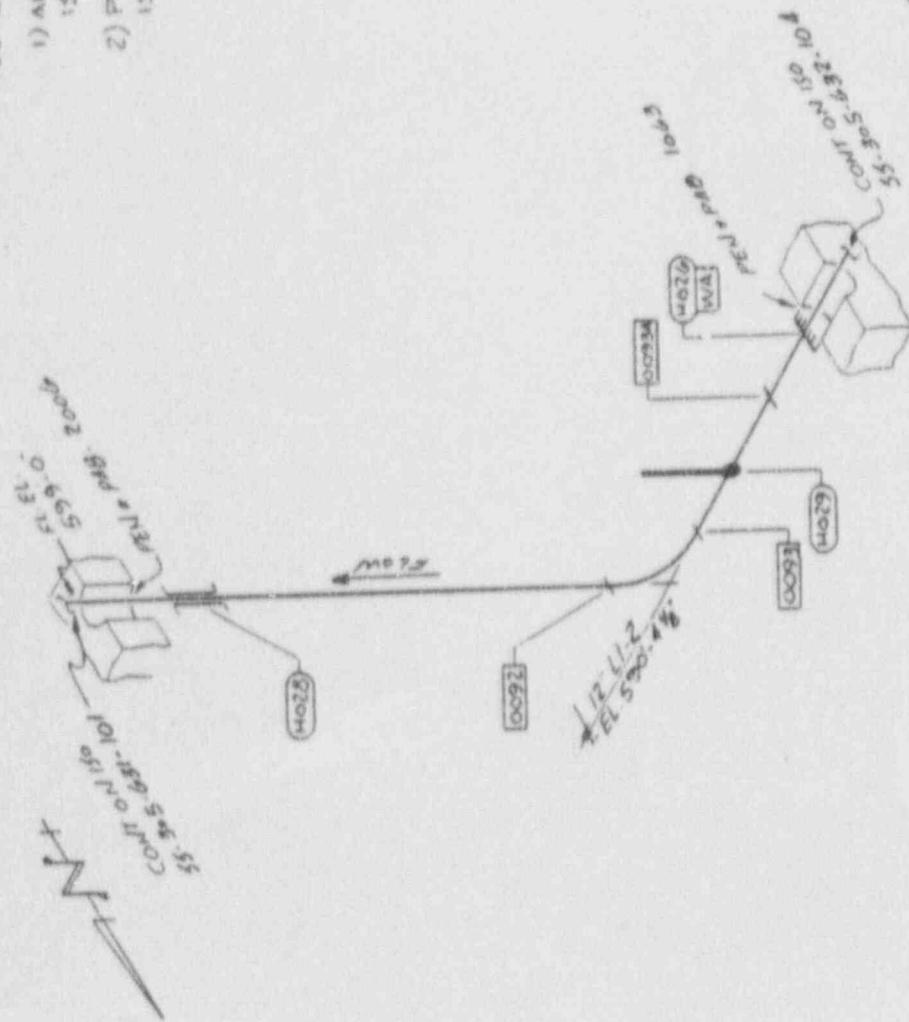
NOTES:

- 1) ALL PIPING ON THIS IS 150 LB CLASS 2
- 2) PSI 06-02  
151-ESI-002

BLF DMG  
0-204-631

WHEN THESE READING IS PWR  
ESI PROGRAM USE ORBIT AND  
SMALL NOT BE USED FOR  
FABRICATOR/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY Perry Nuclear Power Plant sheet 1	
151 PIPING 150	SYS: ESI
BRASSING CORE Location Control	
DATE: 2/24/84	EL. EL. 574-10
NO. 1	151-ESI-002
NO. 2	151-ESI-002
NO. 3	151-ESI-002
NO. 4	151-ESI-002
NO. 5	151-ESI-002
NO. 6	151-ESI-002
NO. 7	151-ESI-002
NO. 8	151-ESI-002
NO. 9	151-ESI-002
NO. 10	151-ESI-002
NO. 11	151-ESI-002
NO. 12	151-ESI-002
NO. 13	151-ESI-002
NO. 14	151-ESI-002
NO. 15	151-ESI-002
NO. 16	151-ESI-002
NO. 17	151-ESI-002
NO. 18	151-ESI-002
NO. 19	151-ESI-002
NO. 20	151-ESI-002
NO. 21	151-ESI-002
NO. 22	151-ESI-002
NO. 23	151-ESI-002
NO. 24	151-ESI-002
NO. 25	151-ESI-002
NO. 26	151-ESI-002
NO. 27	151-ESI-002
NO. 28	151-ESI-002
NO. 29	151-ESI-002
NO. 30	151-ESI-002



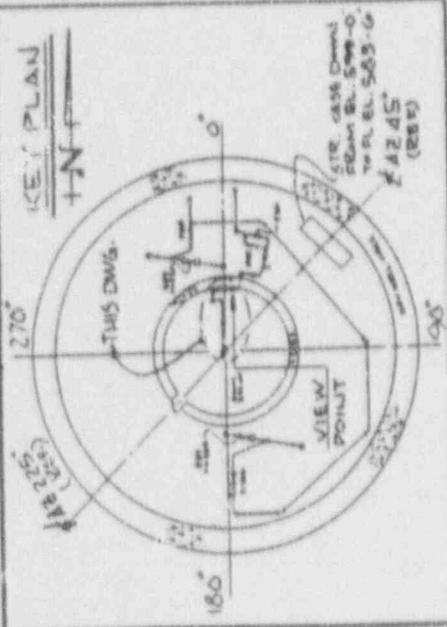
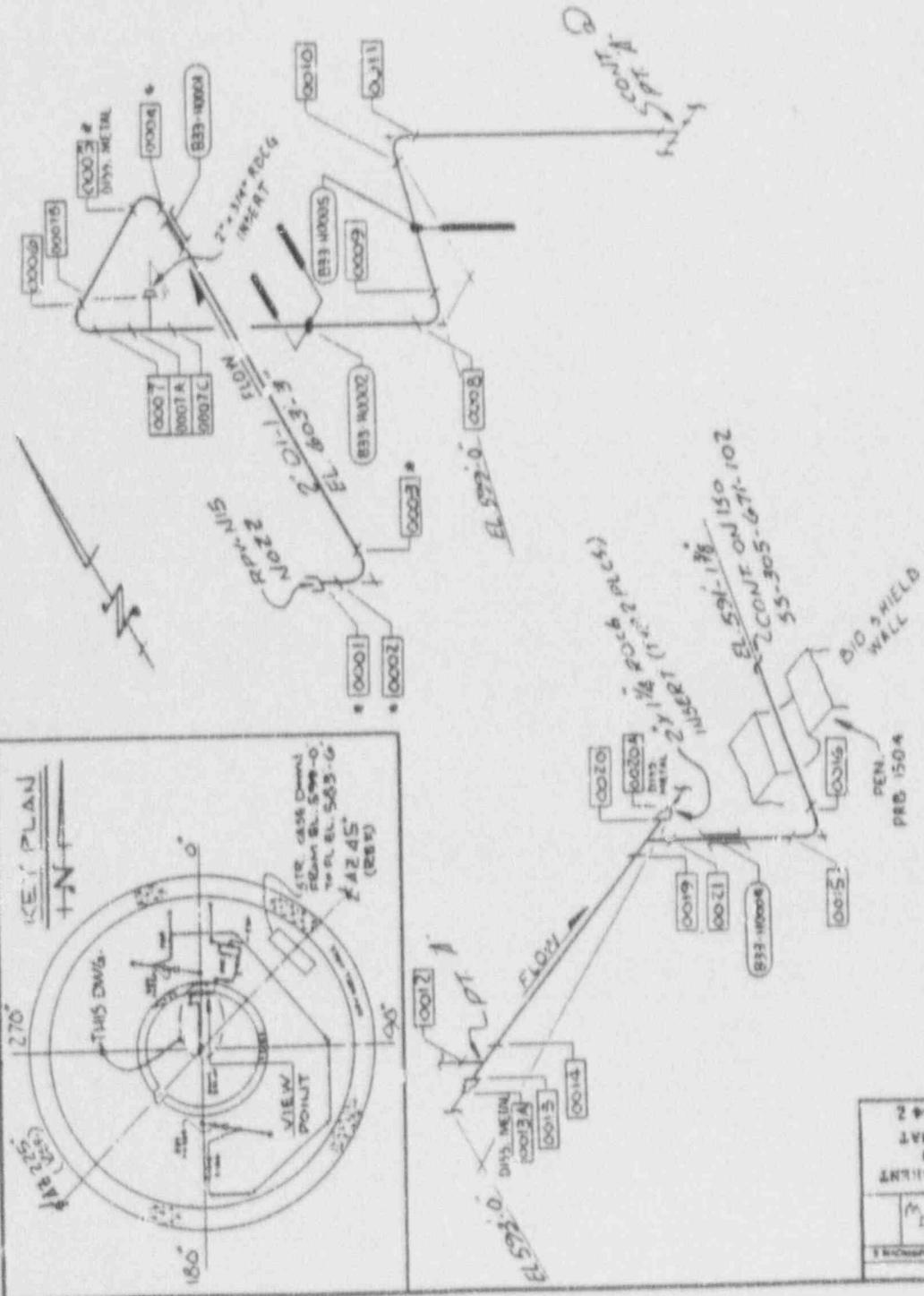
NO.	REV.	BY	DATE	DESCRIPTION
1	1	J	12/16/83	REVISED TO CURRENT ESI PROGRAM STANDARDS/FORMAT PER DCN 3612 AND DCN 3630

NOTES:

- 1) ALL PIPING ON THIS IS 150 IS CLASS I
- 2) P51 10-04A  
151-633-004
- 3) WELDS WITH AN ASTERISK ARE BUTT WELDS ALL OTHERS ARE SOCKET WELDS
4. CONSTRUCTED AS 1633, BUT IS WELD MARK NO. PREFIX IS 1633.

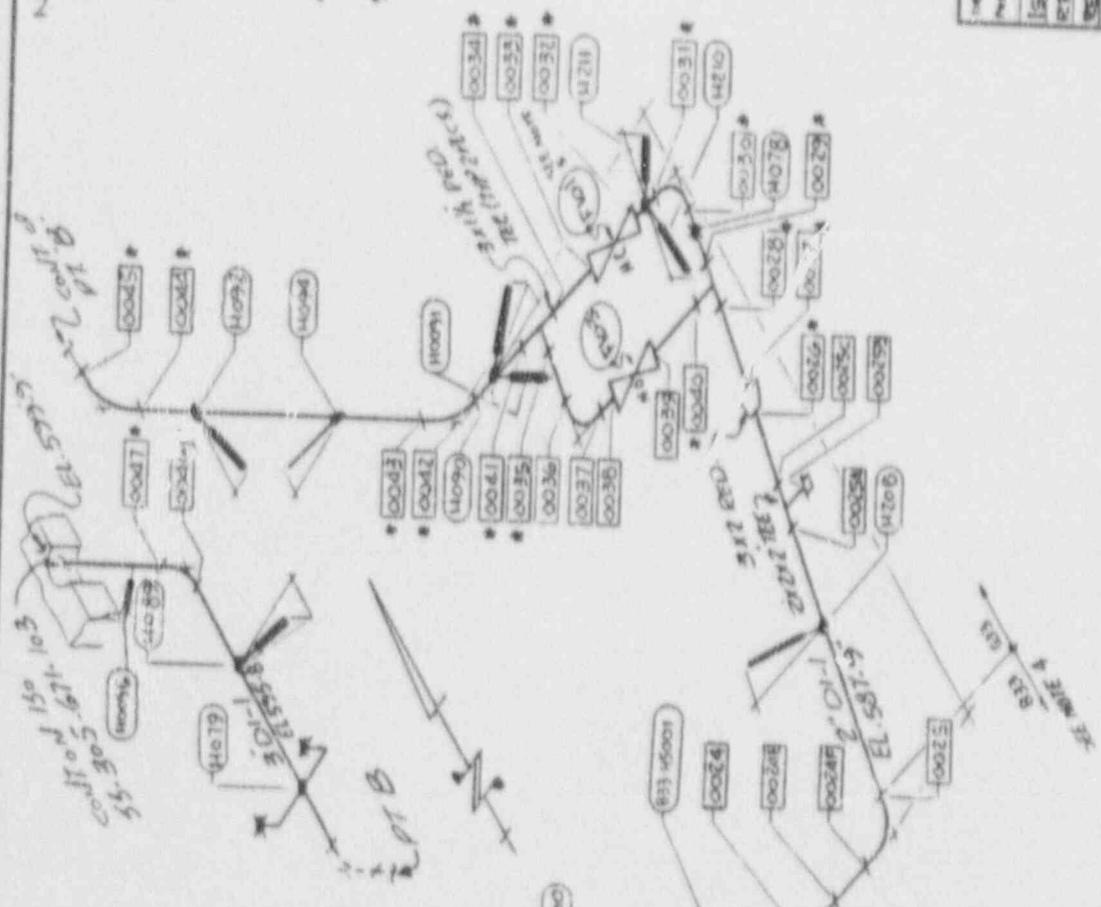
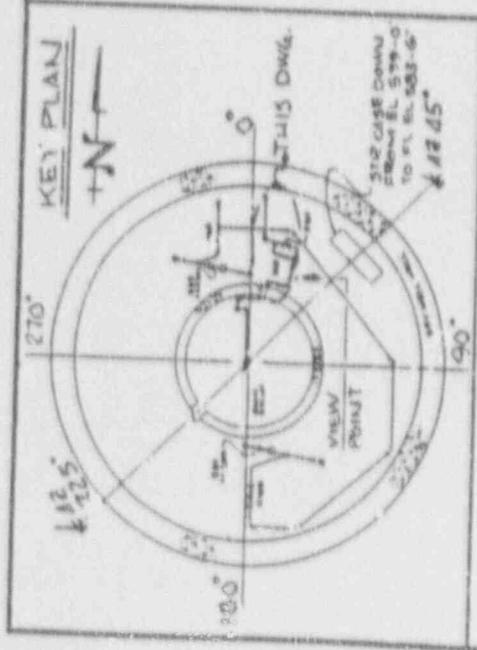
REF. DWG  
D-304-601  
INTERESTE DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUMINATING COMPANIES OFFER NATIONAL POWER FACTS		UNIT 1
ISIPRING 150	SYZ 633	
REACTOR WATER CLEAN-UP		
REACTION BLDG		
DATE	NO. 55-305-671-101	6
BY		
CHECKED		
APPROVED		



REV	DATE	BY	CHKD	APPROVED
0	9/1	M	M	
1	5/1	M	M	
2	11/1	M	M	

REVISED TO CURRENT  
ISI PROGRAM  
STANDARD/FORMAT  
PER DCN 3542



REF. DWG.  
 D-304-601  
 D-304-671

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRIC OR INSTALLATION

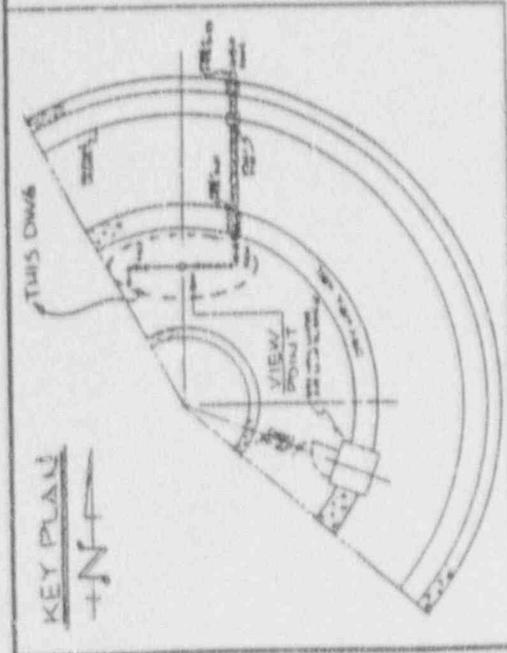
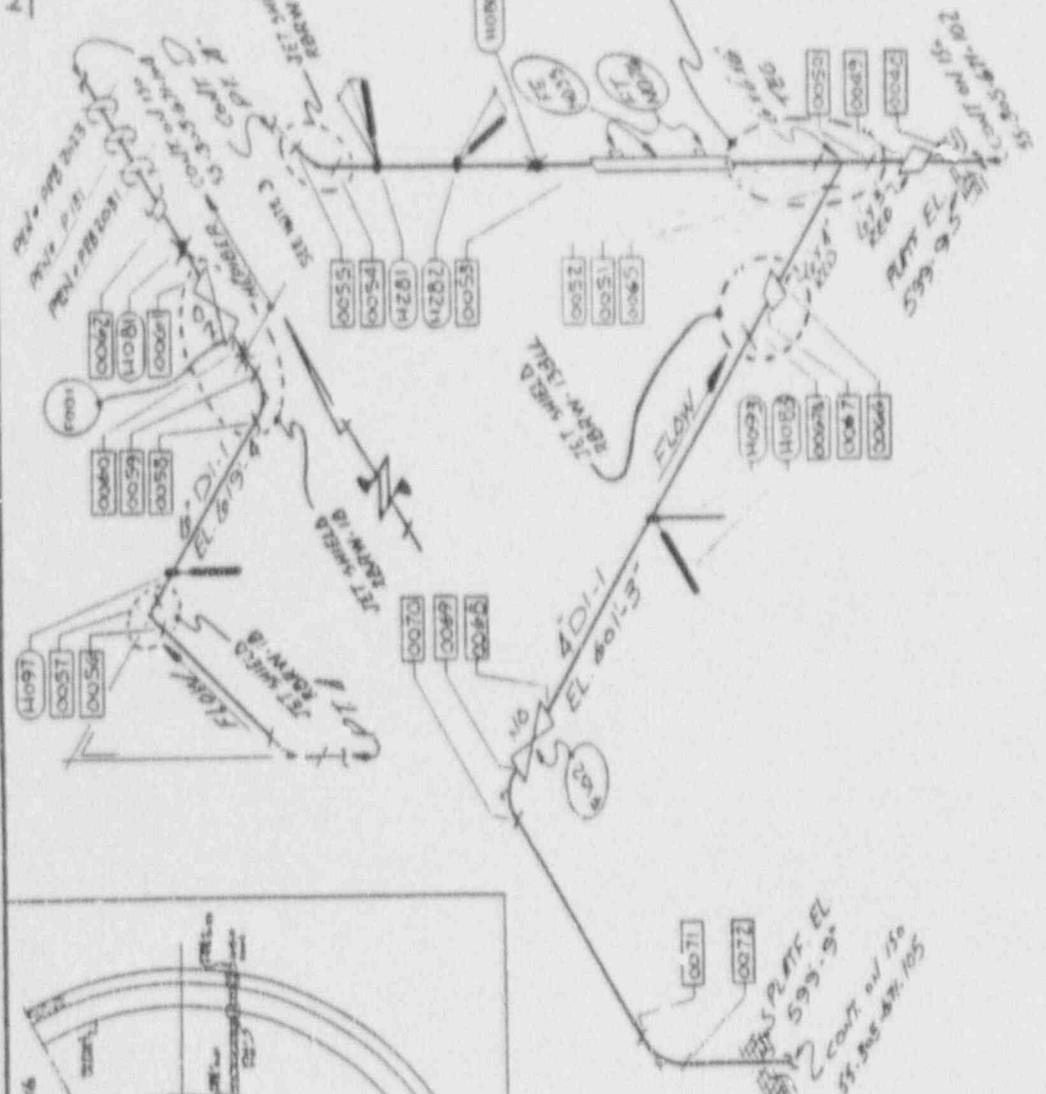
REV.	DATE	BY	CHKD.	APP'D.
1	10/1/71	M	H	
2	10/1/71	M	H	
3	10/1/71	M	H	
4	10/1/71	M	H	
5	10/1/71	M	H	
6	10/1/71	M	H	
7	10/1/71	M	H	
8	10/1/71	M	H	
9	10/1/71	M	H	
10	10/1/71	M	H	

APPROVED TO UPHOLD STANDARDS/PHYSIC PER DCN 3542

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	571-108
Sheet	1
ISI PIPING 150 SYS: G23	
REACTOR WATER CLEAN-UP	
REACTOR BLDG	
DATE	10/1/71
BY	M
CHKD.	H
APP'D.	
SCALE	AS SHOWN
PROJECT NO.	571-108
SHEET NO.	1
TITLE	ISI PIPING 150 SYS: G23
REV.	

**NOTES:**

- 1) ALL PIPING ON THIS IS 15 CLASS 1
- 2) PSI 10-01
- 3) SEE DWG 'S 305 & 41-102 FOR VALVE EXHAUST WELDS



THIS DWG  
599.9  
2 CONT. OF 150  
S. 305 & 41-102

THIS DRAWING IS FOR  
IST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
REPLICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	151-603
SHEET	1
151 PIPING 150 S YS 603	
REACTOR WATER CLEAN-UP	
REACTOR BLDG.	
DATE	10/1/59
BY	J.M.
CHECKED	J.M.
APPROVED	J.M.
SCALE	AS SHOWN
PROJECT NUMBER	151-603
SHEET	1

REV	DATE	BY	CHKD	APPROVED
1	10/1/59	J.M.	J.M.	J.M.
2		J.M.	J.M.	J.M.
3		J.M.	J.M.	J.M.
4		J.M.	J.M.	J.M.
5		J.M.	J.M.	J.M.
6		J.M.	J.M.	J.M.
7		J.M.	J.M.	J.M.
8		J.M.	J.M.	J.M.
9		J.M.	J.M.	J.M.
10		J.M.	J.M.	J.M.
11		J.M.	J.M.	J.M.
12		J.M.	J.M.	J.M.
13		J.M.	J.M.	J.M.
14		J.M.	J.M.	J.M.
15		J.M.	J.M.	J.M.
16		J.M.	J.M.	J.M.
17		J.M.	J.M.	J.M.
18		J.M.	J.M.	J.M.
19		J.M.	J.M.	J.M.
20		J.M.	J.M.	J.M.
21		J.M.	J.M.	J.M.
22		J.M.	J.M.	J.M.
23		J.M.	J.M.	J.M.
24		J.M.	J.M.	J.M.
25		J.M.	J.M.	J.M.
26		J.M.	J.M.	J.M.
27		J.M.	J.M.	J.M.
28		J.M.	J.M.	J.M.
29		J.M.	J.M.	J.M.
30		J.M.	J.M.	J.M.
31		J.M.	J.M.	J.M.
32		J.M.	J.M.	J.M.
33		J.M.	J.M.	J.M.
34		J.M.	J.M.	J.M.
35		J.M.	J.M.	J.M.
36		J.M.	J.M.	J.M.
37		J.M.	J.M.	J.M.
38		J.M.	J.M.	J.M.
39		J.M.	J.M.	J.M.
40		J.M.	J.M.	J.M.
41		J.M.	J.M.	J.M.
42		J.M.	J.M.	J.M.
43		J.M.	J.M.	J.M.
44		J.M.	J.M.	J.M.
45		J.M.	J.M.	J.M.
46		J.M.	J.M.	J.M.
47		J.M.	J.M.	J.M.
48		J.M.	J.M.	J.M.
49		J.M.	J.M.	J.M.
50		J.M.	J.M.	J.M.
51		J.M.	J.M.	J.M.
52		J.M.	J.M.	J.M.
53		J.M.	J.M.	J.M.
54		J.M.	J.M.	J.M.
55		J.M.	J.M.	J.M.
56		J.M.	J.M.	J.M.
57		J.M.	J.M.	J.M.
58		J.M.	J.M.	J.M.
59		J.M.	J.M.	J.M.
60		J.M.	J.M.	J.M.
61		J.M.	J.M.	J.M.
62		J.M.	J.M.	J.M.
63		J.M.	J.M.	J.M.
64		J.M.	J.M.	J.M.
65		J.M.	J.M.	J.M.
66		J.M.	J.M.	J.M.
67		J.M.	J.M.	J.M.
68		J.M.	J.M.	J.M.
69		J.M.	J.M.	J.M.
70		J.M.	J.M.	J.M.
71		J.M.	J.M.	J.M.
72		J.M.	J.M.	J.M.
73		J.M.	J.M.	J.M.
74		J.M.	J.M.	J.M.
75		J.M.	J.M.	J.M.
76		J.M.	J.M.	J.M.
77		J.M.	J.M.	J.M.
78		J.M.	J.M.	J.M.
79		J.M.	J.M.	J.M.
80		J.M.	J.M.	J.M.
81		J.M.	J.M.	J.M.
82		J.M.	J.M.	J.M.
83		J.M.	J.M.	J.M.
84		J.M.	J.M.	J.M.
85		J.M.	J.M.	J.M.
86		J.M.	J.M.	J.M.
87		J.M.	J.M.	J.M.
88		J.M.	J.M.	J.M.
89		J.M.	J.M.	J.M.
90		J.M.	J.M.	J.M.
91		J.M.	J.M.	J.M.
92		J.M.	J.M.	J.M.
93		J.M.	J.M.	J.M.
94		J.M.	J.M.	J.M.
95		J.M.	J.M.	J.M.
96		J.M.	J.M.	J.M.
97		J.M.	J.M.	J.M.
98		J.M.	J.M.	J.M.
99		J.M.	J.M.	J.M.
100		J.M.	J.M.	J.M.

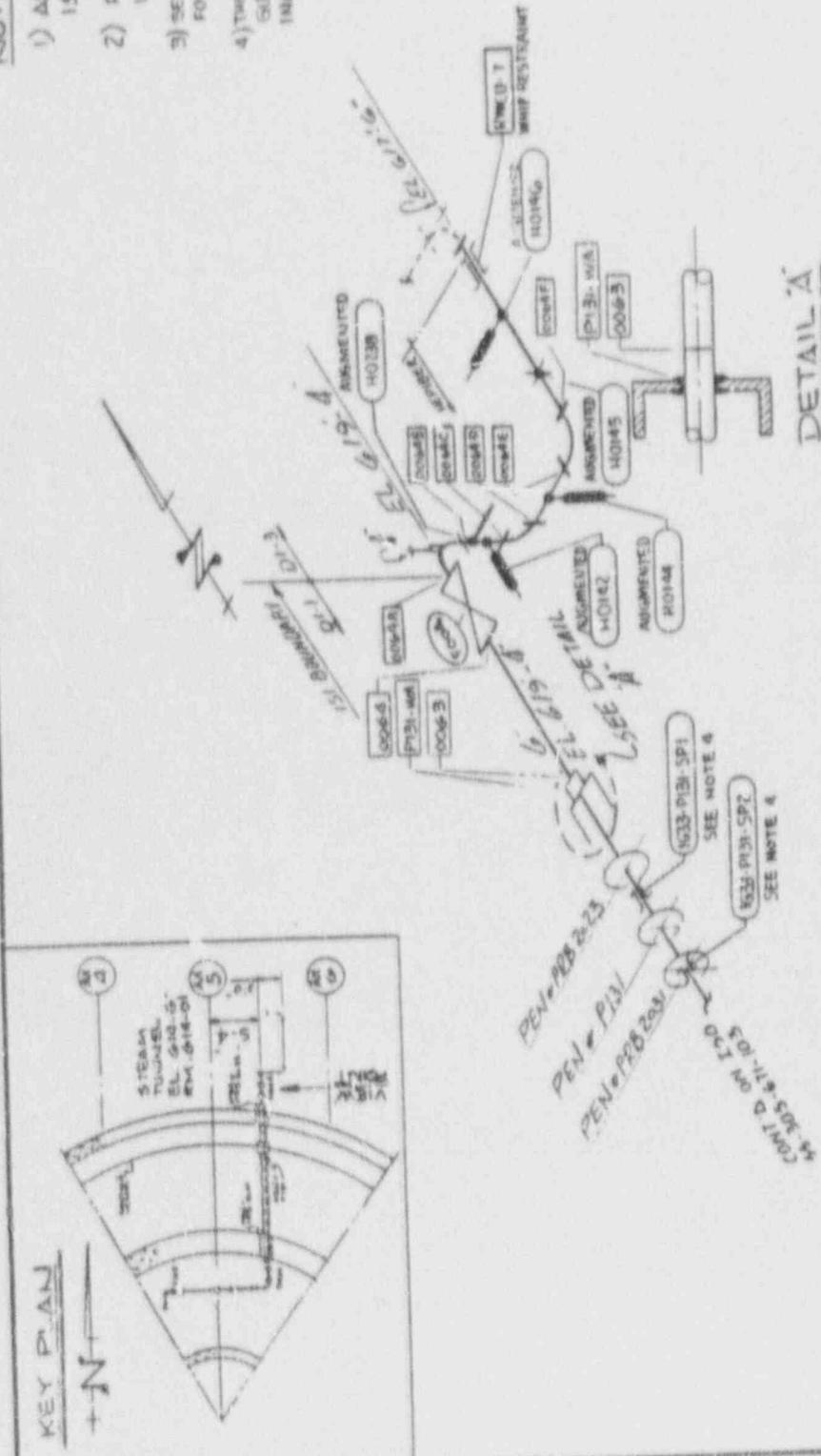
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS 'I' UNLESS NOTED
- 2) PSI 10-01  
151-633-001
- 3) SEE DWS 55-305-471-10B FOR VALVE BODY WELDS
- 4) THIS SUPPORT IS INSIDE (NEAR) GUARD PIPE AND THEREFORE INACCESSIBLE FOR MAINTENANCE

REF. DWG.  
D-304-676

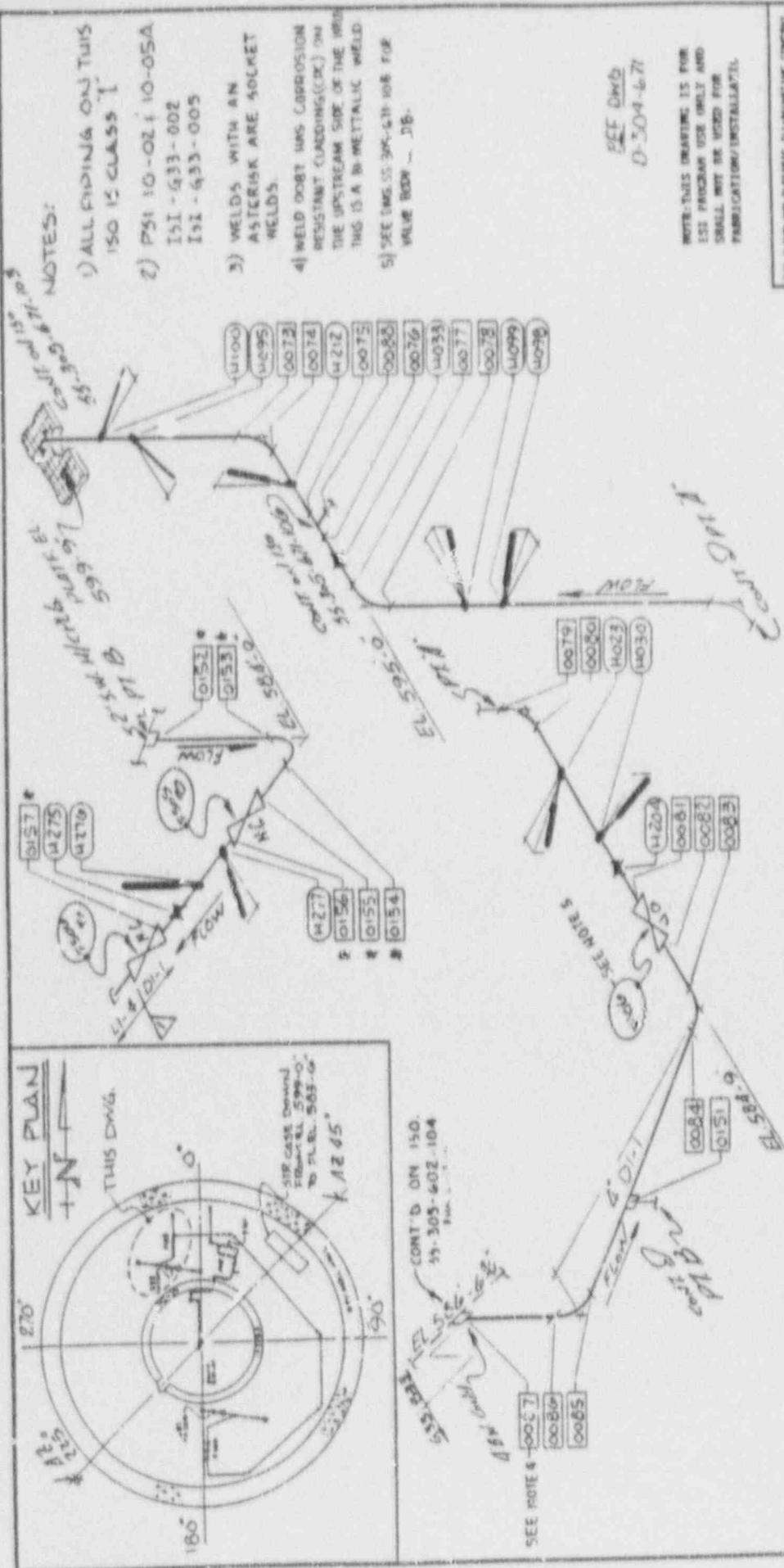
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ENGINEERING COMPANY	
PROJECT NUMBER	55-305-671-10A
DATE	11/18/67
DESIGNED BY	W. J. H. / M. B.
CHECKED BY	W. J. H. / M. B.
APPROVED BY	W. J. H. / M. B.
SCALE	AS SHOWN
DRAWN BY	W. J. H. / M. B.
DATE	11/18/67
PROJECT	55-305-671-10A
REVISION	



REV	DATE	BY	CHKD	APPV	DESCRIPTION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

REVISED TO CURRENT  
ISI PROGRAM  
STANDARD/FORMAT  
PER DCN 3542



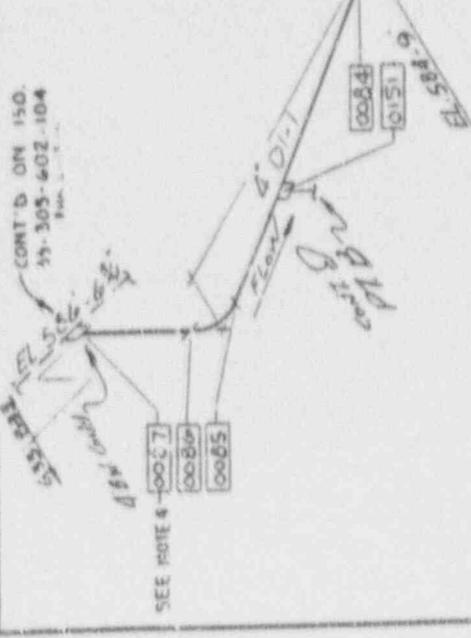
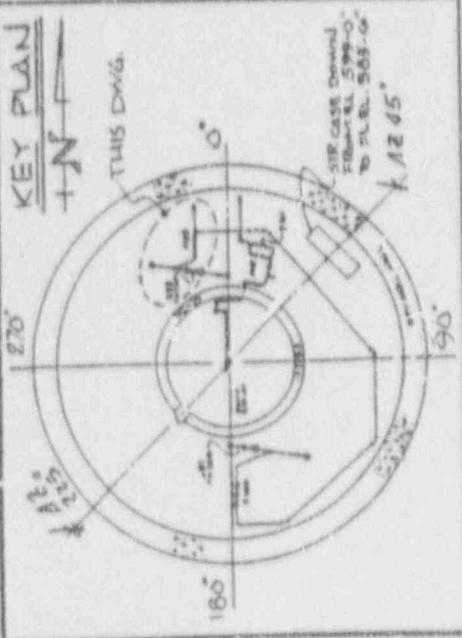
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 10-02; 10-05A  
151-433-002  
151-433-005
- 3) WELDS WITH AN ASTERISK ARE SOCKET WELDS.
- 4) WELD DOBT HAS CORROSION RESISTANT CLADDING (CR) ON THE UPSTREAM SIDE OF THE WELD THIS IS A BI-METALLIC WELD
- 5) SEE ENG. 55-345-639-106 FOR VALVE BODY -- DB.

SEE DWG  
D-304-671

REACTOR WATER CLEAN-UP REACTOR WATER CLEAN-UP REACTOR WATER CLEAN-UP

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name	150 150
Sheet No.	150 150
Scale	AS SHOWN
Author	W.A.
Checker	W.A.
Appr.	W.A.
Date	11-20-55
Job No.	150-150
Contract No.	150-150



NO.	REV.	DATE	BY	CHKD.	APPR.	DESCRIPTION
1	1					
2	1					
3	1					

REVISED TO CURRENT STANDARDS PER DCN 3612

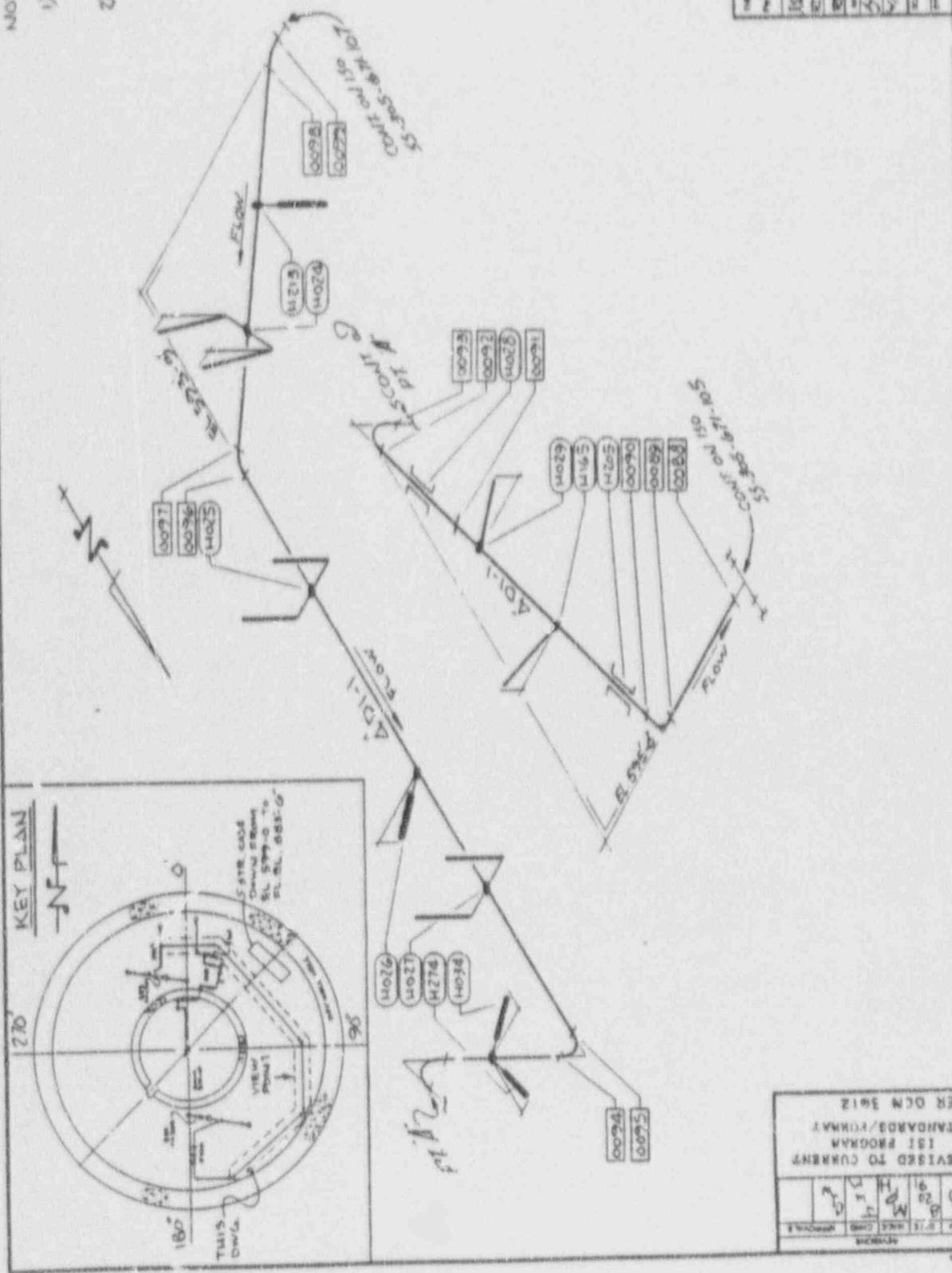
NOTES:

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 10-02 151-633-002

REF DWG  
D-304-677

INTER-TRIS DRAWING IS FOR USE PRIOR TO THE ONLY OF SMALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPING ELECTRIC ILLUMINATING LAMP	
Part Name	Sheet 1
151-633-002	452-0-22
REACTOR WATER CLEAN-UP	
REACTOR BLDG. EL. 502-6	
DATE	11/11/77
BY	WJA
CHECKED	WJA
APPROVED	WJA
PROJECT NO.	151-633-002
REV.	1-77-106



REV.	DATE	BY	CHKD	APP'D
1	11/11/77	WJA	WJA	WJA

REVISED TO CURRENT 151 PROGRAM STANDARDS/RYMAY PER DCN 5012

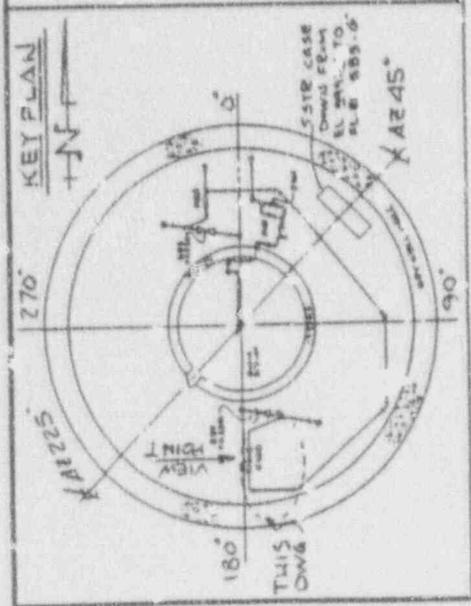
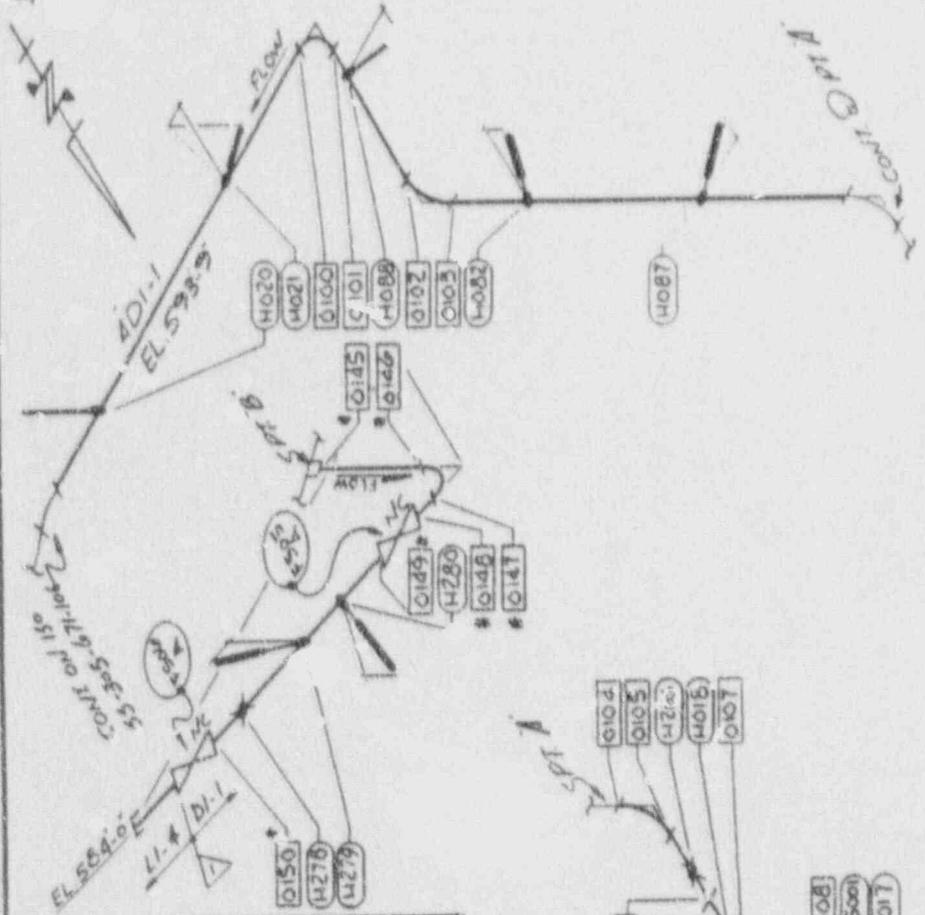
**NOTES**

- 1) ALL PIPING ON THIS IS CLASS I
- 2) P.H. 10-02 & 10-05A  
1" A33-002 / 433-005
- 3) WELDS WITH AN ASTERISK ARE SOCKET WELDS.
- 4) WELD Q113 HAS CORROSION RESISTANT CLADDING (CRC) ON THE UPSTREAM SIDE OF THE WELD. THIS IS A BI-METALLIC WELD.
- 5) SEE IWS 55-305-G11-108 FOR VALVE BODY WELDS.

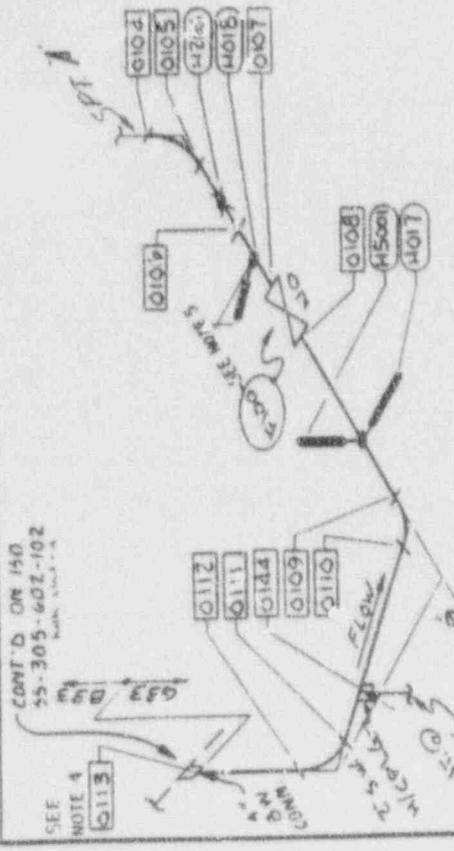
REF DNG  
D-304-671

NOTE: THIS DRAWING IS FOR ICI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEARING ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-602-102
UNIT	1
IS1 PIPING ISO SYS: 433	
REACTOR WATER CLEAN-UP	
REACTOR BUILD	
DATE	11/18/88
BY	JLH
CHECKED	WJA
APPROVED	WJA
DATE	11/18/88
PROJECT NUMBER	55-305-671-107
UNIT	1



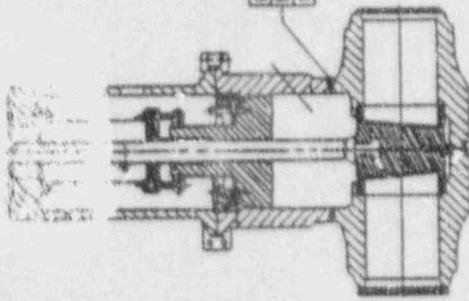
SEE NOTE 4  
Q113  
CONT'D ON 150  
55-305-602-102  
PART 1011-A



REV	DATE	BY	CHKD	APPROVED
B	11/18/88	JLH	WJA	WJA
REVISED TO CURRENT ICI PROGRAM STANDARDS/FORMAT PER DCN 3542				

NOTES:

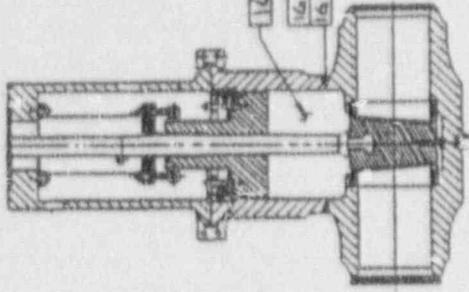
- 1) P51 10-04 & 10-05
- 151-633-007
- 151-633-006



BORG WARNER VALVE

RMCU GATE VALVE & F100/F101 AND B' FOR WELD ARRANG.

- 1. SEE DWG. 55-305-G11-101
- 2. & SEE DWG. 55-305-G11-105
- F101-SEE DWG. 55-305-G11-102



BORG WARNER VALVE

RMCU GATE VALVE F001 / FC24 WELD ARRANGEMENT

- F001-SEE DWG. 55-305-G11-103
- F004-SEE DWG. 55-305-G11-104

DIFFERENCES INDICATED IN THIS PROGRAM USE ORBIT AND SWELL. NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Perry Machine Power Plant UNIT 1

151 P51 10-04 SYS: 633  
REACTOR WATER CLEAN-UP  
REACTOR SHIELDS

REV	NO	DATE	BY	CHKD	APP'D
1	1	10/10/63	J. H. ...	M. J. ...	A. ...
2	1	10/10/63	J. H. ...	M. J. ...	A. ...
3	1	10/10/63	J. H. ...	M. J. ...	A. ...
4	1	10/10/63	J. H. ...	M. J. ...	A. ...
5	1	10/10/63	J. H. ...	M. J. ...	A. ...
6	1	10/10/63	J. H. ...	M. J. ...	A. ...
7	1	10/10/63	J. H. ...	M. J. ...	A. ...
8	1	10/10/63	J. H. ...	M. J. ...	A. ...
9	1	10/10/63	J. H. ...	M. J. ...	A. ...
10	1	10/10/63	J. H. ...	M. J. ...	A. ...

55-305-671-105 A

REVISED TO CURRENT  
151 PROGRAM  
STANDARD/FORMAT

REV	NO	DATE	BY	CHKD	APP'D
1	1	10/10/63	J. H. ...	M. J. ...	A. ...

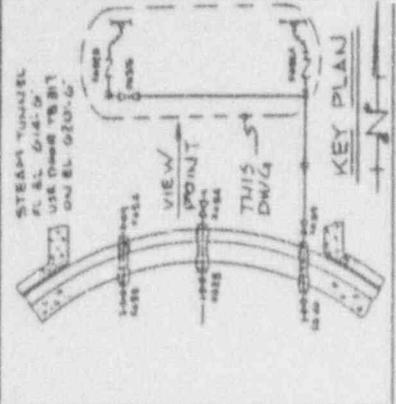
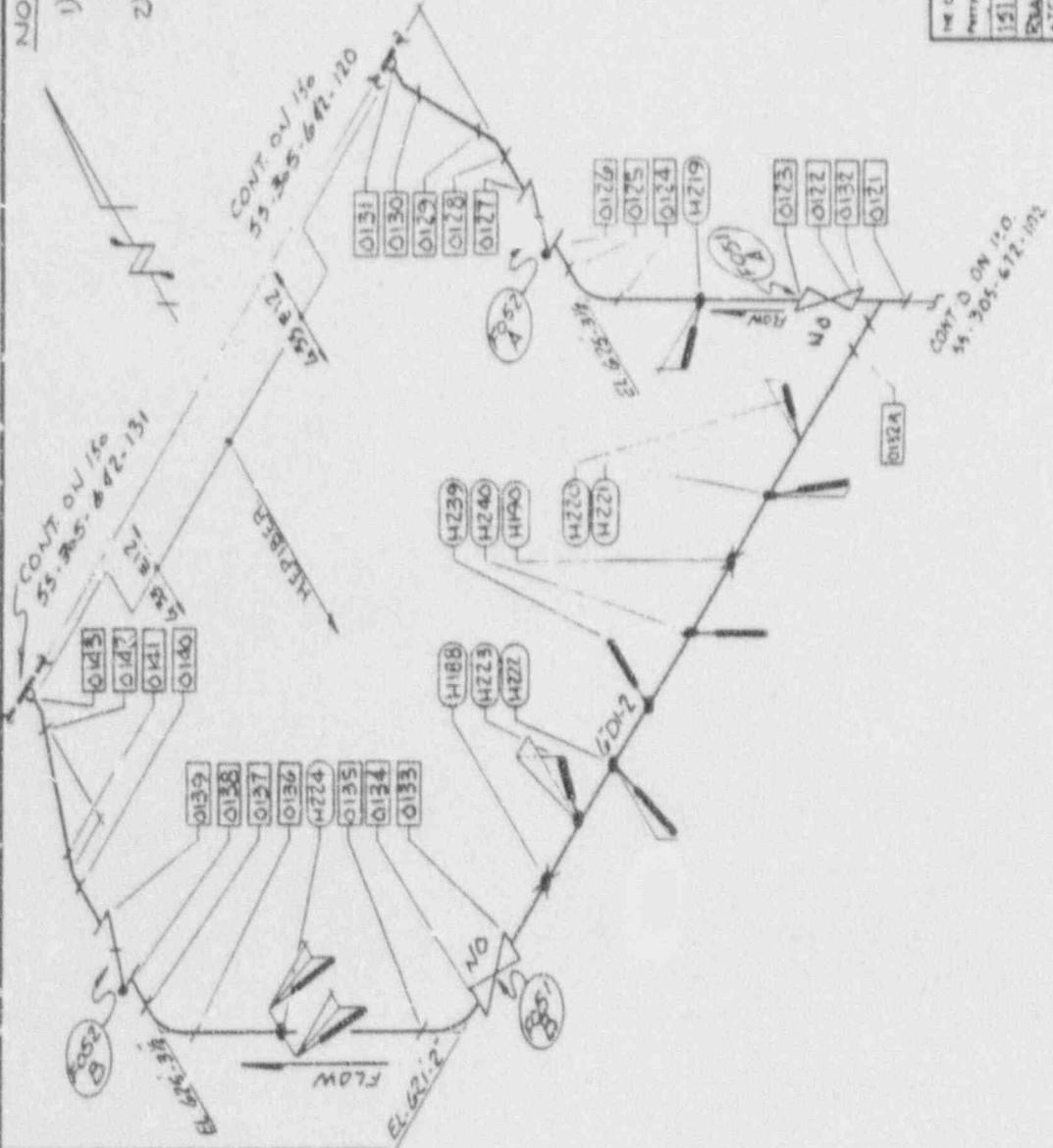
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS "2"
- 2) PSI 10-03  
1'-633-003

SEE SHEET  
0-204-676

NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Reactor Power Plant	Sheet: 1
151 PIPING 150 SYS: 633	
REACTOR WATER CLEAN-UP	
STEAM TUNNEL	
DATE: 11-17-64	BY: J.H.
SCALE: AS SHOWN	PROJECT NO: 63-305-672-101
REV: 1	DATE: 11-17-64
REV: 2	DATE: 11-17-64
REV: 3	DATE: 11-17-64
REV: 4	DATE: 11-17-64
REV: 5	DATE: 11-17-64
REV: 6	DATE: 11-17-64
REV: 7	DATE: 11-17-64
REV: 8	DATE: 11-17-64
REV: 9	DATE: 11-17-64
REV: 10	DATE: 11-17-64

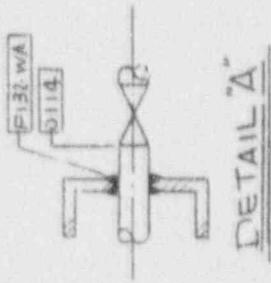
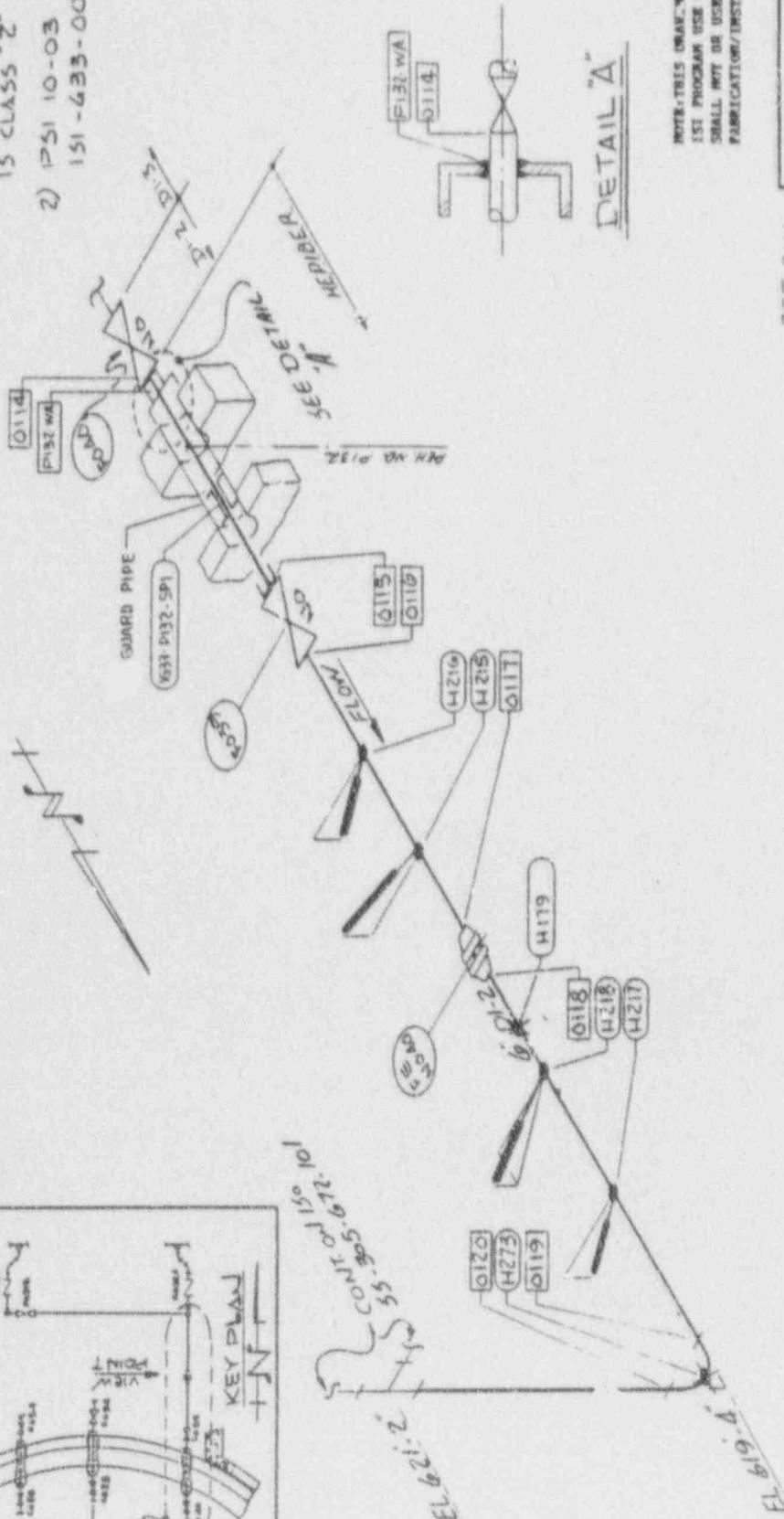
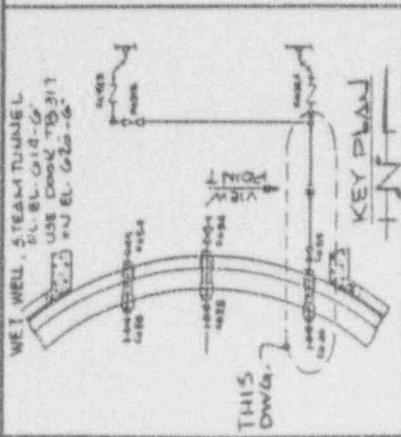


REV: 1	DATE: 11-17-64	BY: J.H.
REV: 2	DATE: 11-17-64	BY: J.H.
REV: 3	DATE: 11-17-64	BY: J.H.
REV: 4	DATE: 11-17-64	BY: J.H.
REV: 5	DATE: 11-17-64	BY: J.H.
REV: 6	DATE: 11-17-64	BY: J.H.
REV: 7	DATE: 11-17-64	BY: J.H.
REV: 8	DATE: 11-17-64	BY: J.H.
REV: 9	DATE: 11-17-64	BY: J.H.
REV: 10	DATE: 11-17-64	BY: J.H.

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3612  
AND DCN 3630

**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS "Z"
- 2) PSI 10-03  
151-633-003



NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REF. DWG  
D-309-672  
D-309-676

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No.	151-633-003
Sheet No.	1
151 PIPING 150 SYS: 633	
STEAM TUNNEL CLEAN-UP	
DATE	12-18-63
BY	JL
CHECKED	N/A
APPROVED	N/A
SCALE	AS SHOWN
NO.	633-003-101
REV.	1

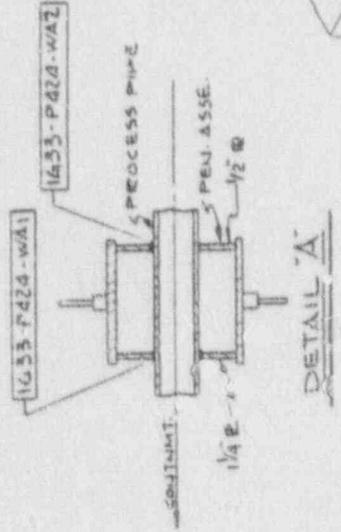
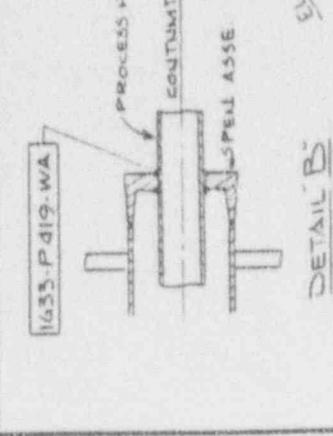
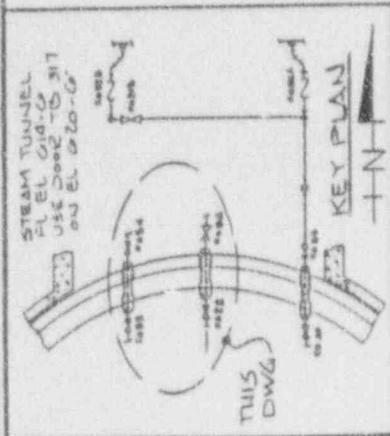
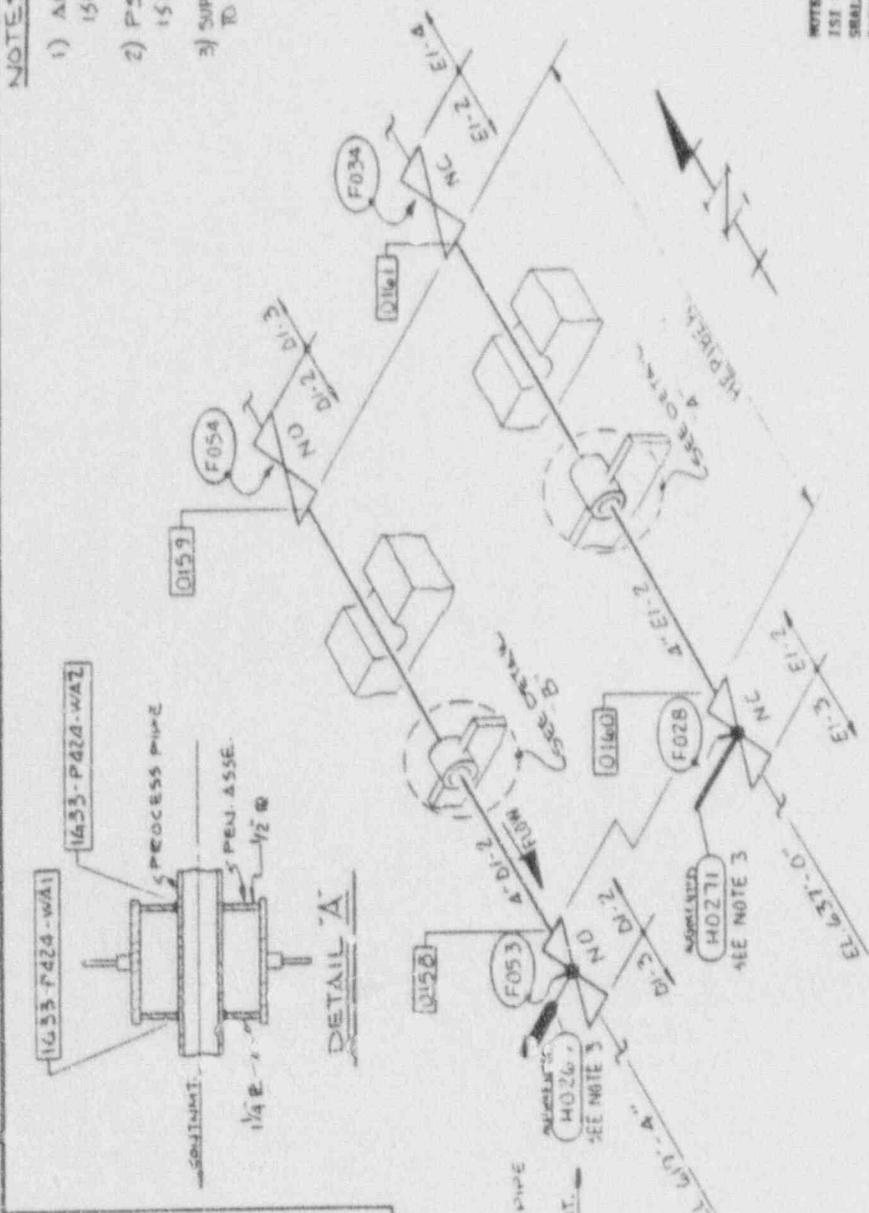
REVISED TO CURRENT	PER DCN 5612
STANDARDS/FORMAT	
ISI PROGRAM	
DATE	12-18-63
BY	JL
CHECKED	N/A
APPROVED	N/A
NO.	633-003-101
REV.	1

NOTES:

- 1) ALL PIPING ON THIS IS 150 LB CLASS 2
- 2) PSI 10-06  
151-633-006
- 3) SUPPORT IS ATTACHED TO VALVE OPERATOR.

REF DWGS  
D-204-276  
D-204-676

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

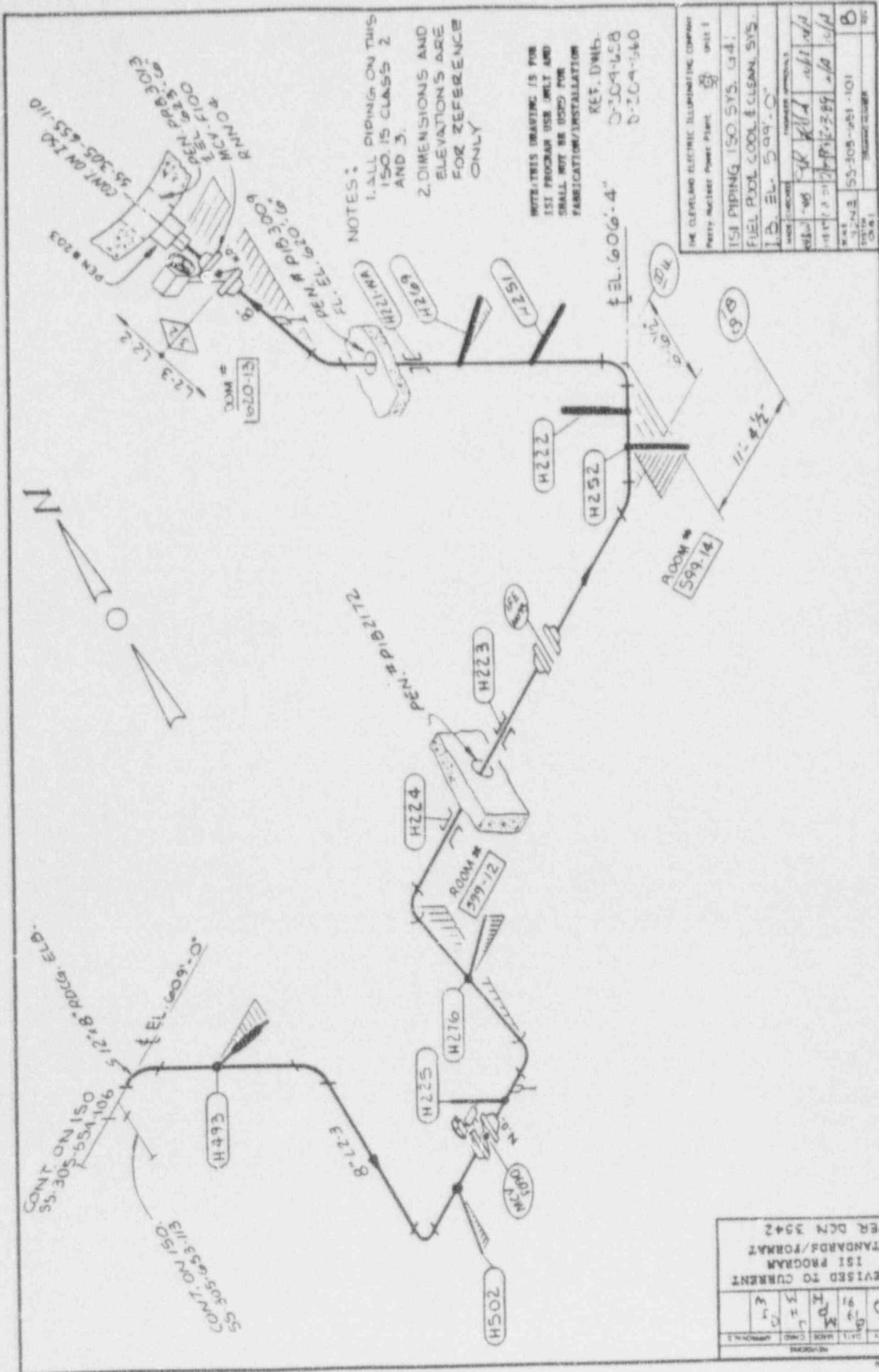


REV	DATE	BY	CHK	APP	DESCRIPTION
0	19	M	H	C	
1	91	R	H	C	
2		M	H	C	

REVISED TO (UHR-N)  
ISI PROGRAM  
STANDARDS/KUMANT  
PER DCN 3542

NO	DATE	BY	CHK	APP	DESCRIPTION
151					PIPING 150 LBS CLASS 2
					REACTOR WATER CLEAN-UP
					HIGH ENERGY BREAK EXCEPTION
					DESIGNED BY
					CHECKED BY
					DATE
					NO.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
NORTH AVENUE, CLEVELAND, OHIO 44115  
UNIT 1



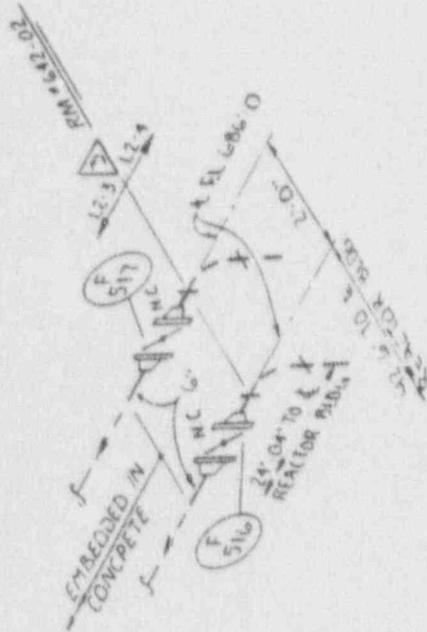
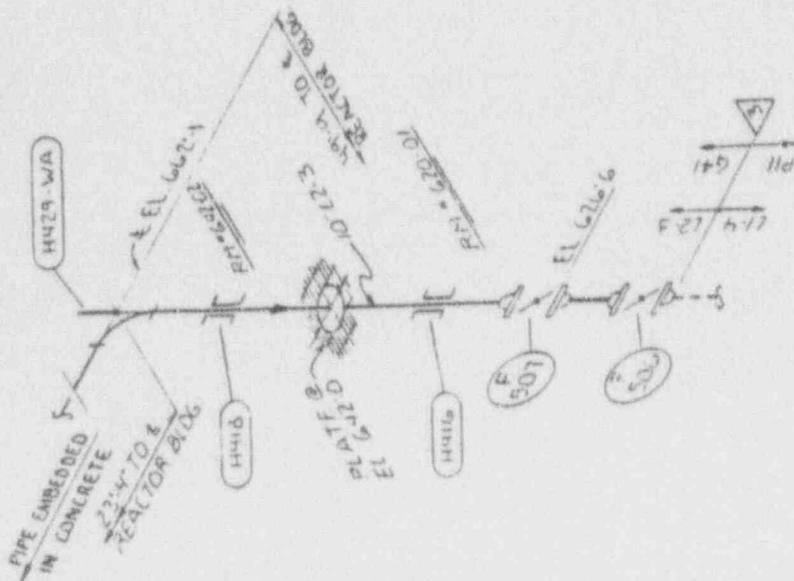
NOTES:  
 1. ALL PIPING ON THIS IS 150 LB CLASS 2 AND 3.  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF. DWG. 0-304-658 0-304-660

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NAME	IS1
PROJECT NO.	55-305-655-110
DATE	11/27/81
BY	J.P. 389
CHECKED	W.D. 11/11/81
SCALE	AS SHOWN
DRAWING NUMBER	55-305-655-1101
REV.	B

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT	PER DCN 3542
DATE	11/27/81
BY	J.P. 389
CHECKED	W.D. 11/11/81
SCALE	AS SHOWN



**NOTE:**

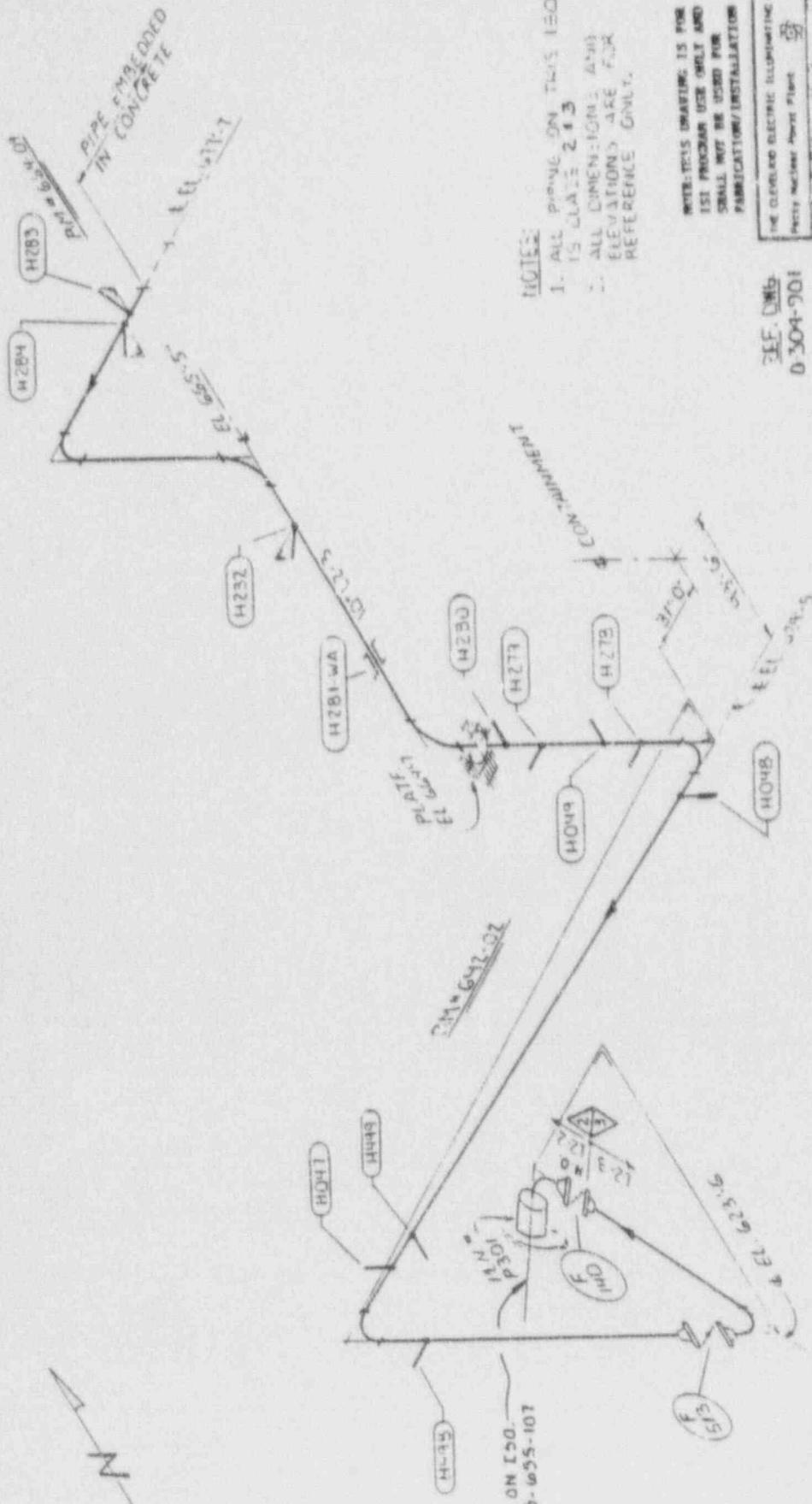
1. ALL PIPING IN THIS ISO IS CLASS 5.
2. DIMENSIONS AND ELEVATIONS ARE TO BE USED FOR REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR  
 ISO PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF. DWG  
 D-304-312

REVISED TO CURRENT ISO PROGRAM STANDARDS/FORMAT PER DCN 3542		
REV. DATE	BY	CHKD
19 11	M	H
5	T	L
5	C	W

THE CLEVELAND ELECTRIC SUPPLYING COMPANY	
Project Nuclear Power Plant	Sheet 1
ISO PIPING ISO	575 GHI
FUEL SYSTEM - LEANUP	
SCALE	AS SHOWN
DATE	10/13/57
NO.	305-651-102
REV.	



NOTES:  
 1. ALL PIPING ON THIS LEO IS CLASS 2 & 3  
 ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

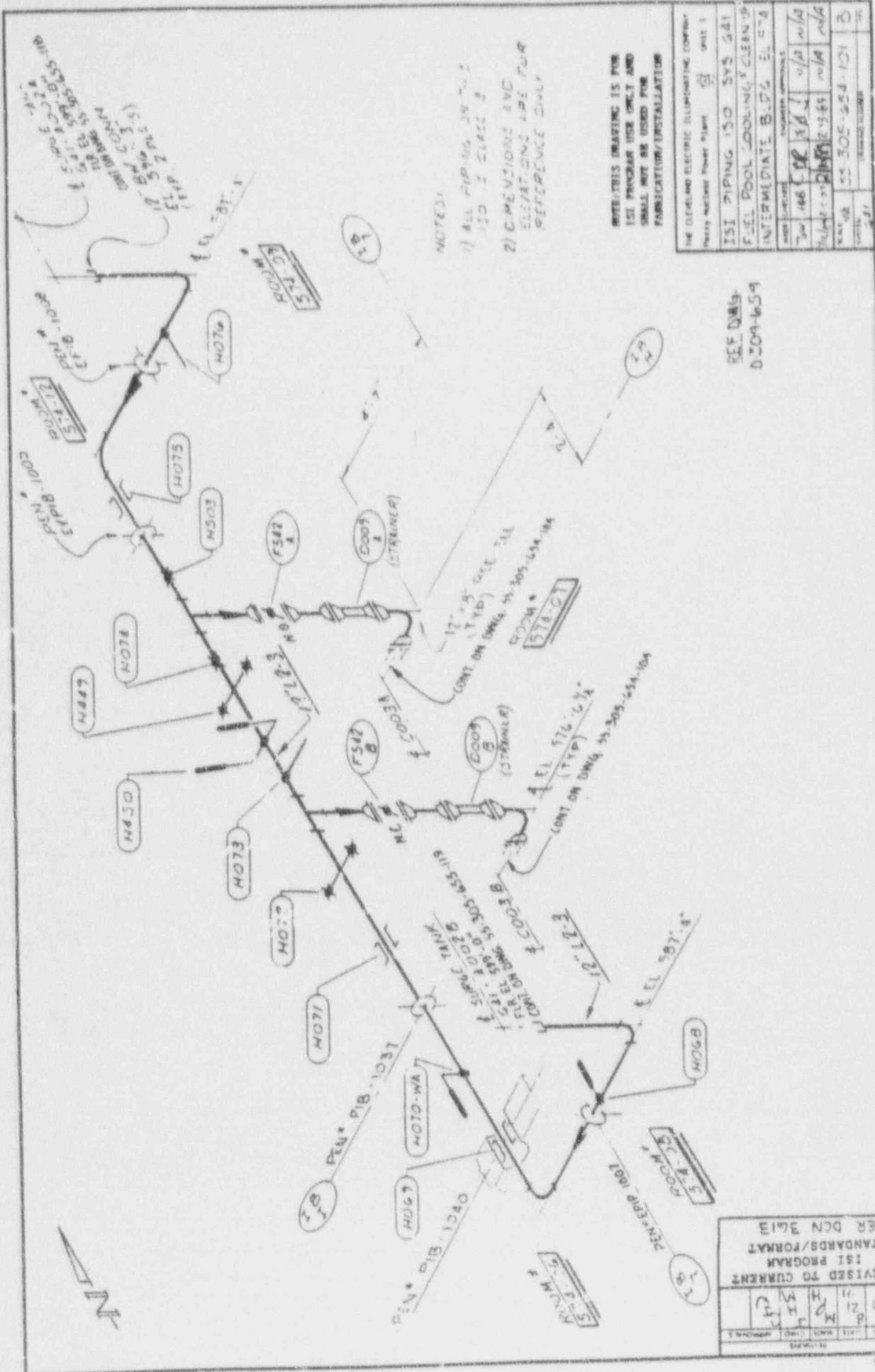
INTERLOCKS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

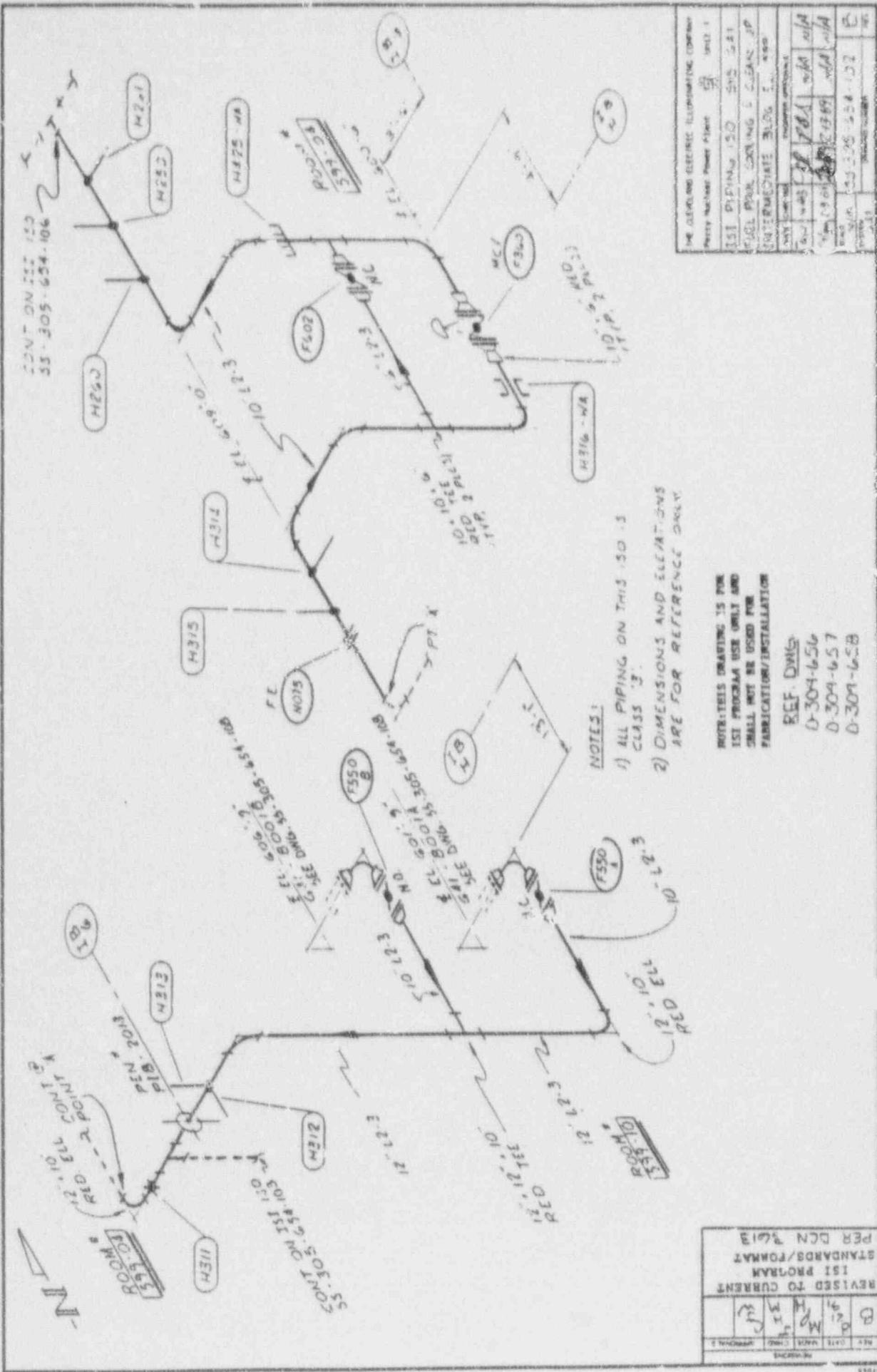
THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-651-103
DATE	5/20/64
DESIGNED BY	J.P.
CHECKED BY	M.W.
SCALE	AS SHOWN
PROJECT NUMBER	55-305-651-103
DATE	5/20/64

SEE DWG 0-304-901

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 5413
D 12
M 12
H 12
J 12
J 12

CON. ON LEO 55-305-651-103





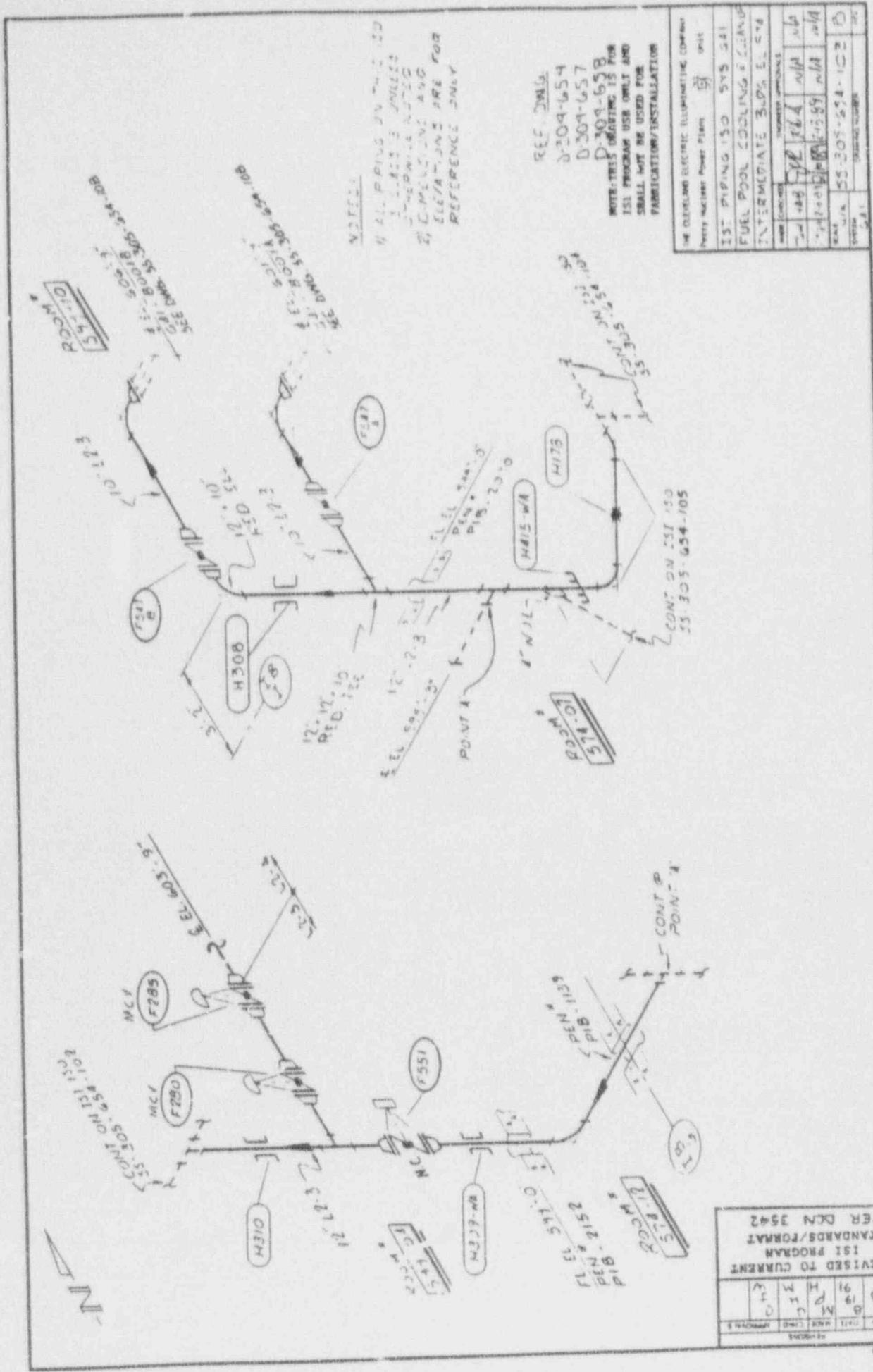
CONT ON SHEET 153  
53-305-654-106

THE DEVELOPING ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
ISI PIPING 150	DATE: 5/81
CHECKED BY: [Signature]	DATE: 5/81
DESIGNED BY: [Signature]	DATE: 5/81
DATE: 5/81	SCALE: 1"=10'
PROJECT NUMBER: 53-305-654-106	SHEET NUMBER: 1

NOTES:  
1) ALL PIPING ON THIS SHEET IS CLASS "3".  
2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

NOTES: THIS DRAWING IS FOR USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION.  
REF. DWGS:  
D-304-656  
D-304-657  
D-304-658

REVISIONS TO CURRENT	DATE	BY
STANDARDS/FORMAT	5/81	[Signature]
PER DCN 3613		



**NOTES:**

1. ALL PIPING IN THIS ISD IS TO BE 3" UNLESS OTHERWISE NOTED.  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

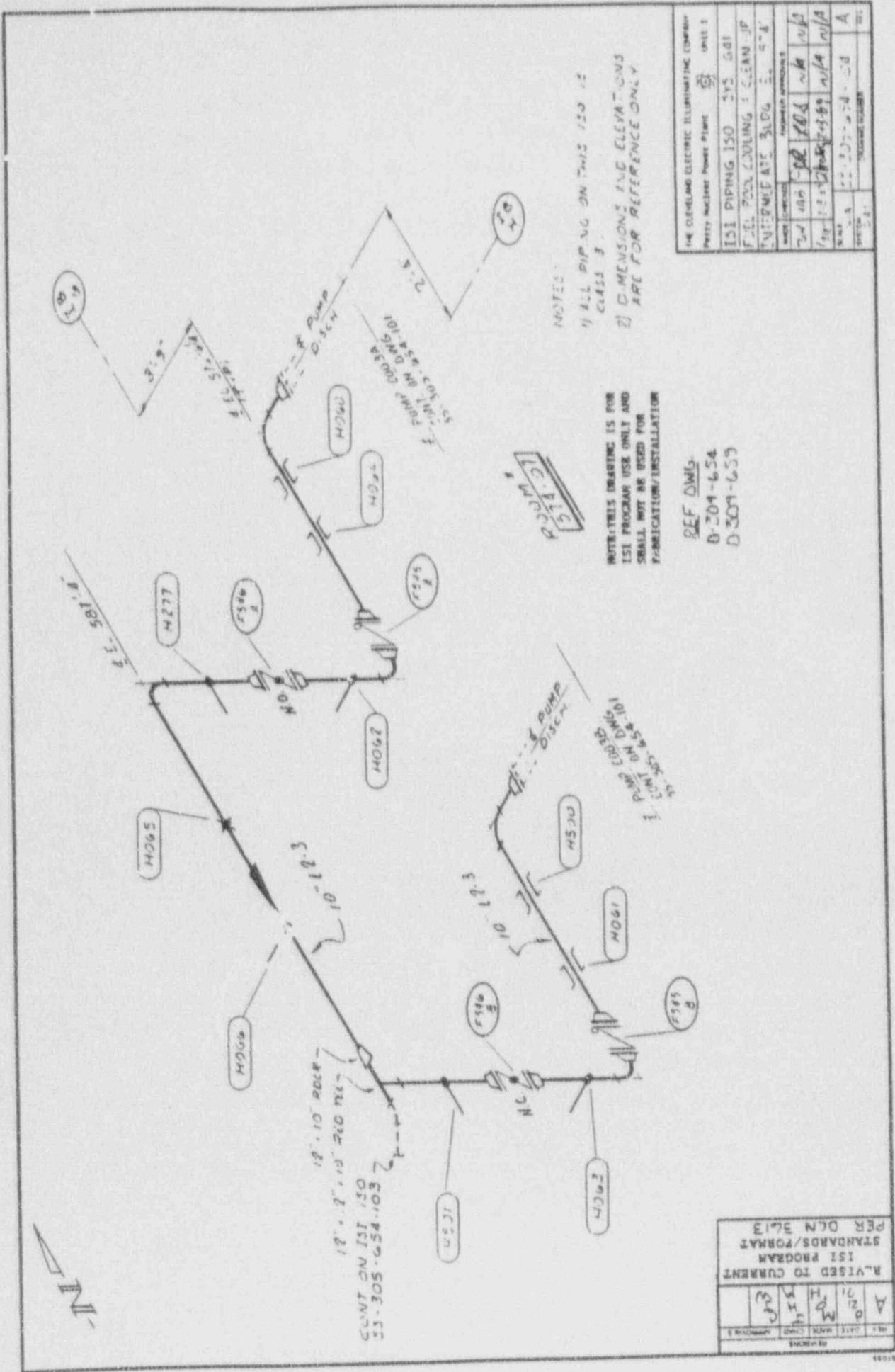
**REF. DWGS.**

- D-209-654
- D-309-657
- D-309-658

NOTE: THIS DRAWING IS FOR ISL PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-454-103
DATE	11/15/58
BY	W.A.
CHECKED	W.A.
APPROVED	W.A.
SCALE	AS SHOWN
PROJECT	55-305-454-103
SHEET	103

REVISED TO CURRENT	11/15/58	W.A.
ISL PROGRAM	11/15/58	W.A.
STANDARDS/FORMATS	11/15/58	W.A.
PER DCN 3542	11/15/58	W.A.



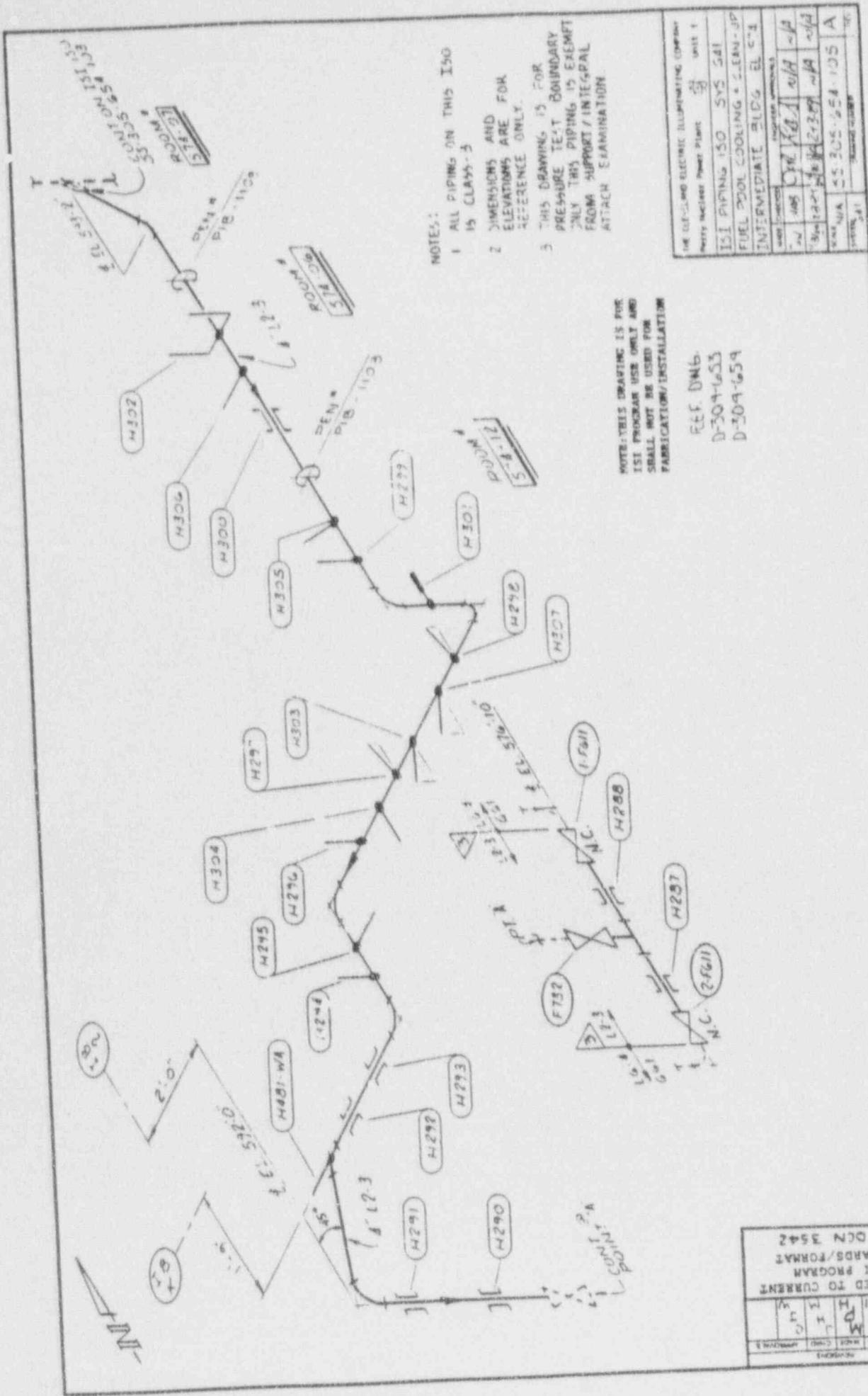
NOTES:  
 1) ALL PIPING ON THIS IS1 IS CLASS 3.  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

NOTES: THIS DRAWING IS FOR IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF DWG:  
 D-309-654  
 D-309-659

THE CLEVELAND ELECTRIC ILLUMINATING CO. COMPANY	
PROJECT NUMBER	IS1 150
DATE	08/15/83
DESIGNED BY	J. J. ...
CHECKED BY	...
APPROVED BY	...
SCALE	AS SHOWN
PROJECT NUMBER	...

REV	DATE	BY	DESCRIPTION
A	01/21/83	J. J.	REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3613
B	02/03/83	H. M.	
C	02/03/83	H. M.	
D	02/03/83	H. M.	
E	02/03/83	H. M.	



NOTES:

- 1 ALL PIPING ON THIS ISO IS CLASS 1-5
- 2 DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
- 3 THIS DRAWING IS FOR PRESSURE TEST BOUNDARY ONLY THIS PIPING IS EXEMPT FROM SUPPORT / INTEGRAL ATTACH EXAMINATION

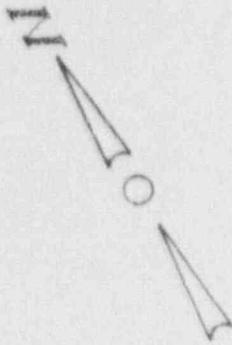
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF. DWG.  
D-304-653  
D-304-654

THE DESIGN AND ELECTRIC ILLUMINATING COMPANY		UNIT 1
Perry Nuclear Power Plant		5
ISI PIPING ISO SYS 541		
FUEL POOL COOLING & LEAK-UP		
INTERMEDIATE BLDG EL 5-B		
NO.	DATE	BY
1	10/1/65	WJA
2	10/1/65	WJA
3	10/1/65	WJA
4	10/1/65	WJA
5	10/1/65	WJA
6	10/1/65	WJA
7	10/1/65	WJA
8	10/1/65	WJA
9	10/1/65	WJA
10	10/1/65	WJA
11	10/1/65	WJA
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97	10/1/65	WJA
98	10/1/65	WJA
99	10/1/65	WJA
100	10/1/65	WJA

REV.	DATE	BY	CHKD.	APPROVED
A	10/1/65	WJA		
B	10/1/65	WJA		
M	10/1/65	WJA		
H	10/1/65	WJA		
C	10/1/65	WJA		
W	10/1/65	WJA		

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

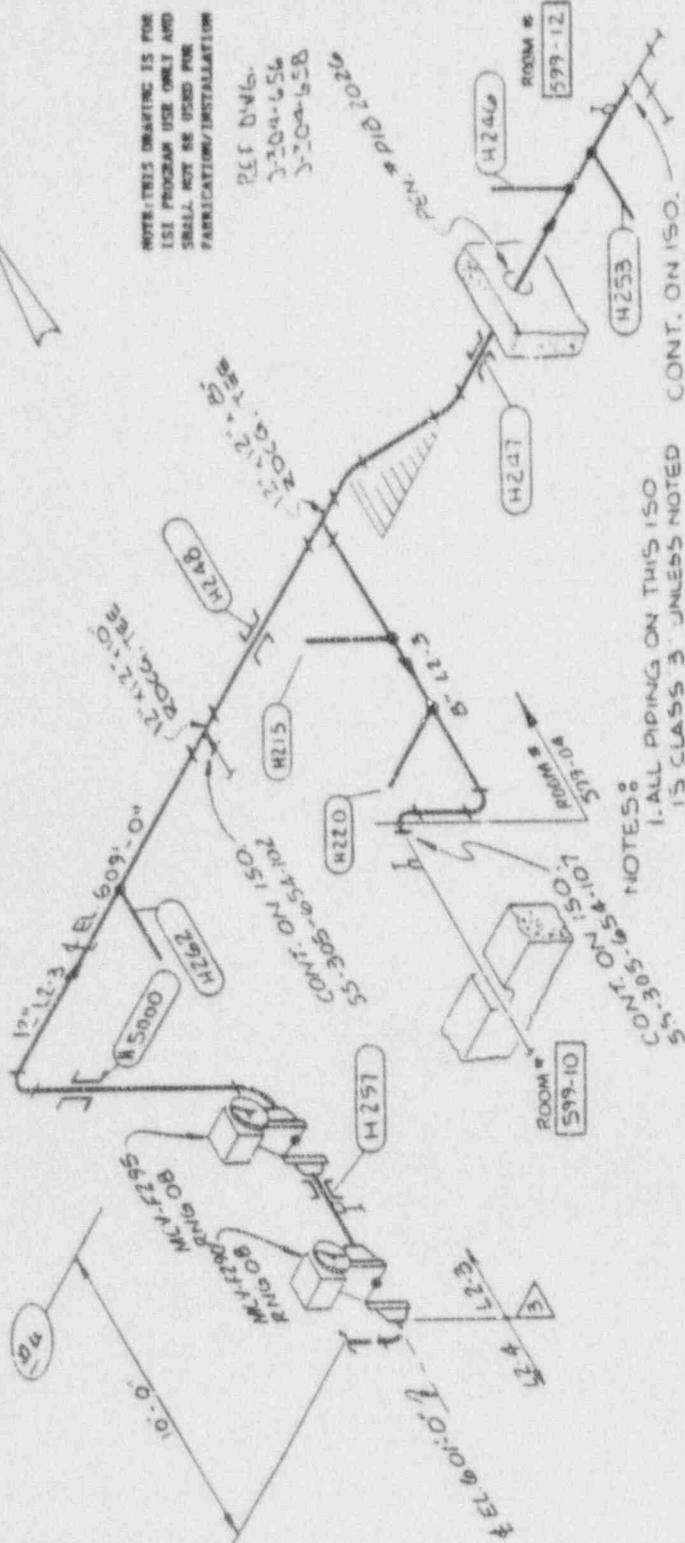


NOTES: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF D46.  
 3-204-656  
 3-204-658

ROOM #  
 599-08

ROOM #  
 599-08



CONT. ON ISO.  
 55-305-65E-113

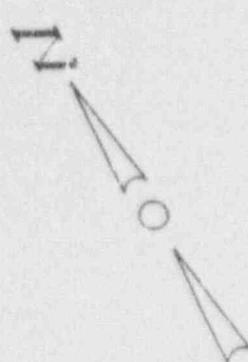
NOTES:  
 1. ALL PIPING ON THIS ISO  
 IS CLASS 3 UNLESS NOTED  
 2. DIMENSIONS AND ELEV.  
 ARE FOR REFERENCE ONLY

THE FOLLOWING SPECIFIC INFORMATION CONTAINS

PROJECT NUMBER	599-12	UNIT 1
ISSUE	1	
DATE	12/18/81	1/18/81
BY	12/18/81	1/18/81
CHECKED	12/18/81	1/18/81
SCALE	AS SHOWN	
SYSTEM	55-305-654-106	A
REVISION	58.1	REV

NO.	DATE	BY	CHKD	APP'D	REVISION
1		M	H	D	
2		L	H	D	
3		M	H	D	
4		M	H	D	
5		M	H	D	

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3942

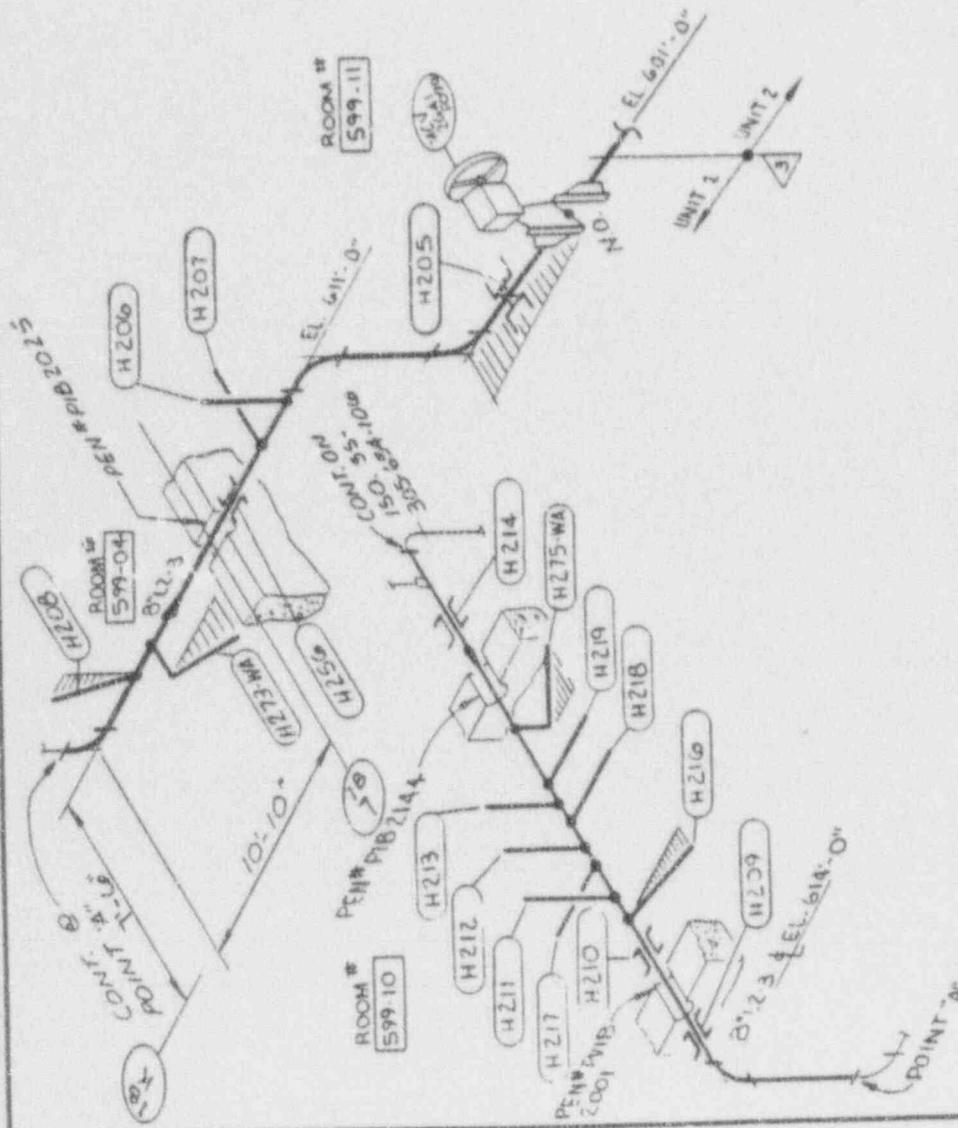


NOTES:  
 1. ALL PIPING ON THIS ISO IS CLASS 'B' UNLESS NOTED  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

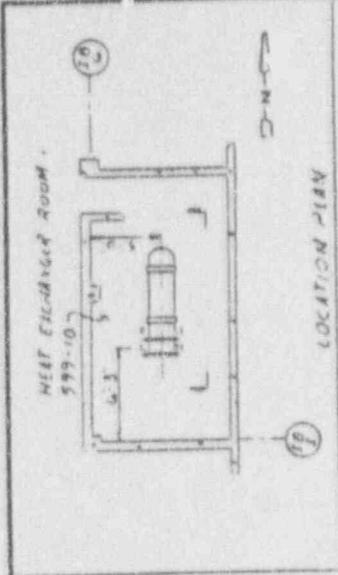
REF DWG. 5-309-65B

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE O'NEILL ELECTRIC ILLUMINATING COMPANY		UNIT 1
PARTY NUCLEAR POWER PLANT		58
ISI PIPING ISO. SYS. 541		
FUEL POOL COOL. & CLEAN SYS.		
I.B. EL. 599.0'		
DATE	BY	CHKD
12/13/77	W. J. B.	J. A.
SCALE	AS SHOWN	
NO. 55-305-654-107	ISSUED	DATE
5/81	5/81	5/81



REV	DATE	BY	CHKD	APPROVED
0	5/81	W. J. B.	J. A.	
RE LED TO CURRENT STANDARDS/FORMAT PER DCN 3542				

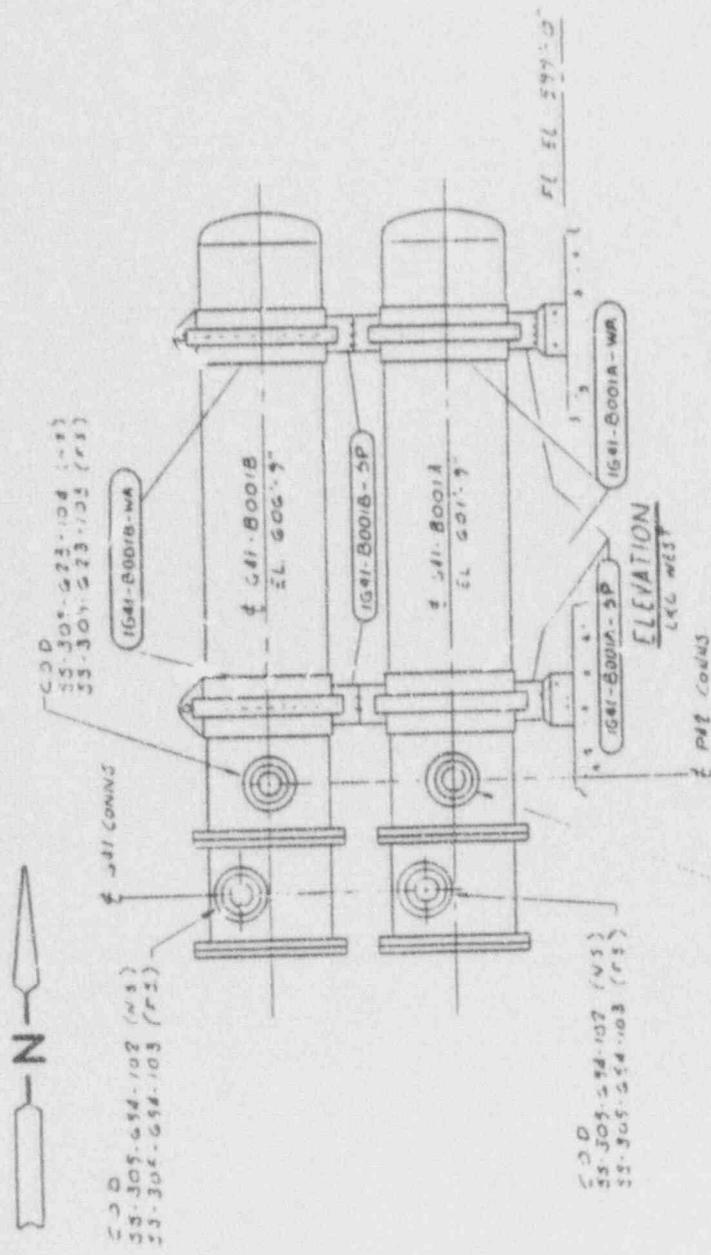


LOCATION PLAN

NOTES

1) ALL EQUIP SHOWN ON THIS DRAWING IS CLASS E.  
 2) DIMENSIONS ARE ELEVATIONS ARE FOR REFERENCE ONLY

Per Draw  
 5543 23 235-1-4  
 D-304-65B



ELEVATION  
 L&C 4657

C.D.D.  
 55-305-594-102 (NS)  
 55-305-594-103 (PS)

C.D.D.  
 55-305-523-104 (NS)  
 55-305-523-105 (PS)

C.D.D.  
 55-305-594-107 (NS)  
 55-305-594-108 (PS)

C.D.D.  
 55-305-523-109 (NS)  
 55-305-523-102 (PS)

REVISION	DATE	BY	CHKD	APP'D
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REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 561A

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No.	5543 23 235-1-4
Sheet No.	1
151 DETAIL DRAWING	SYS GRP
FUEL PUMP COOLING EXCHANGER	
INTERMEDIATE S.D.C.	
NO. OF SHEETS	1
NO. OF SHEETS USED	1
DATE	55-305-594-102
BY	
CHKD	
APP'D	

NOTES: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

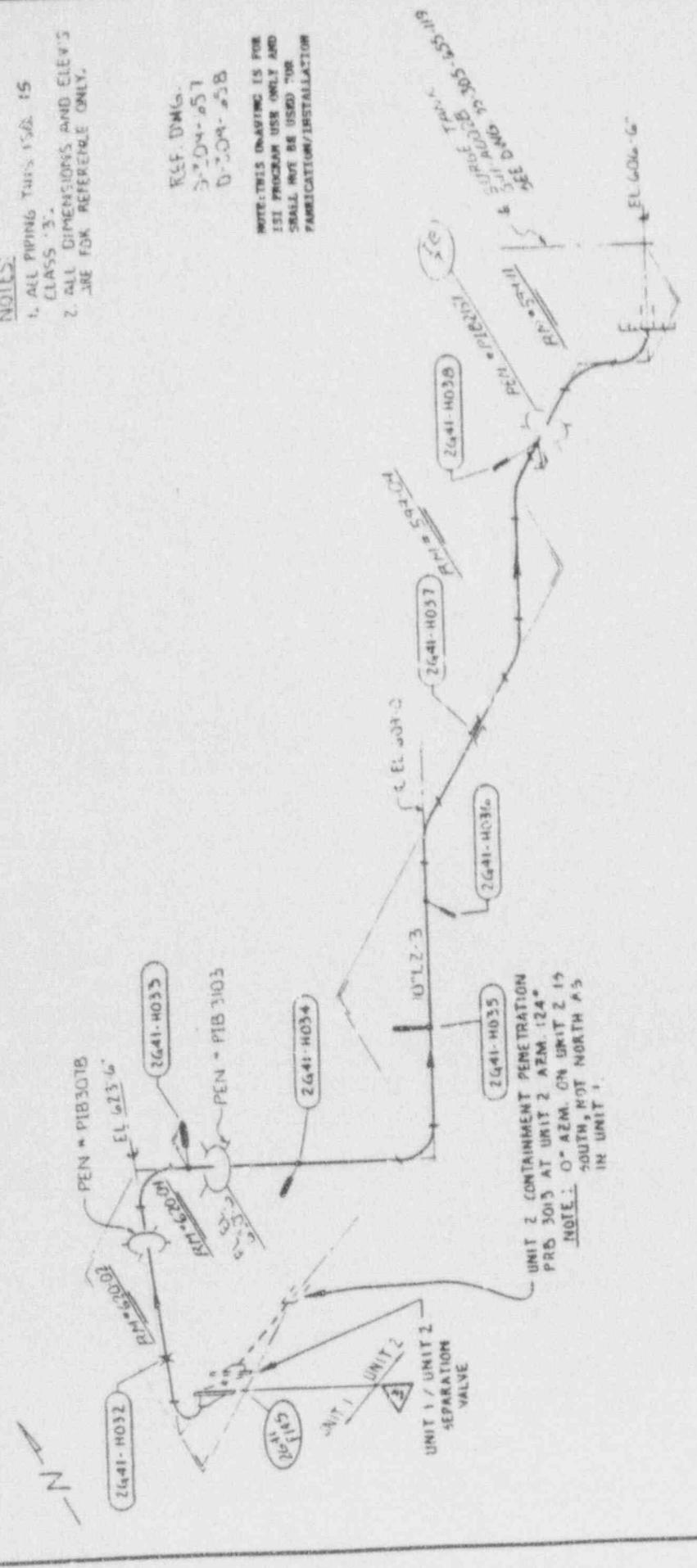
**NOTES:**

- 1. ALL PIPING THIS ISD IS CLASS 'B'.
- 2. ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

REF. DWG. 2-04-051 0-01-05B

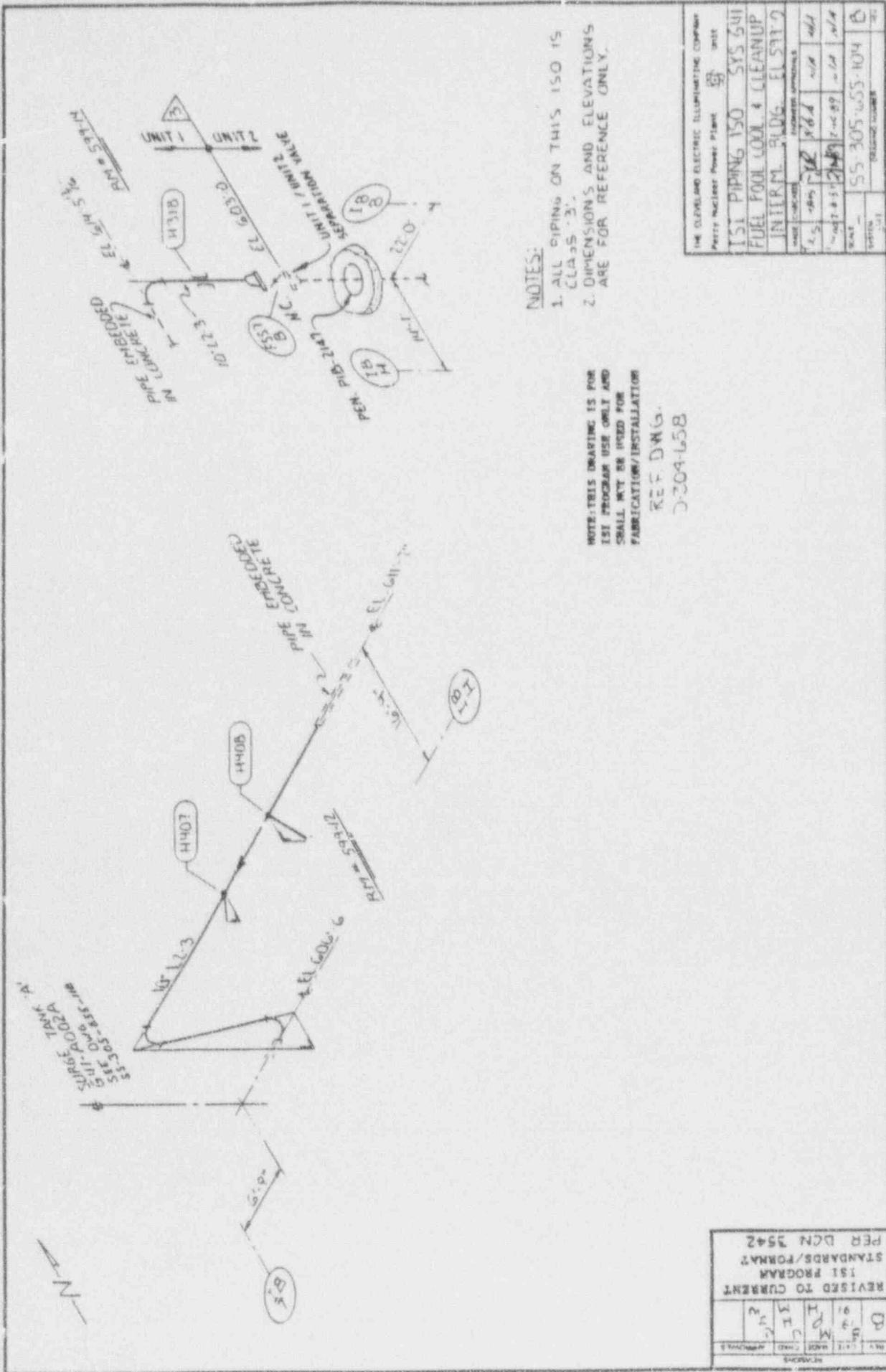
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

SEE ELEVATION 2641-033 FOR PIPING TO UNIT 2



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Project Number	Sheet	DATE	
2641-051	50	11/21/55	
ELECTRICAL PIPING ISD - SYS 1541			
FUEL PIPING (OIL & CLEAN-UP)			
INTERM. BLDG. - EL. 699.0			
DATE	BY	CHECKED	APPROVED
11/21/55	J.M.	H.M.	M.A.
SCALE	AS SHOWN		
	50' = 1"	50' = 1"	50' = 1"

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER CEN 3542			
DATE	BY	CHECKED	APPROVED
11/21/55	J.M.	H.M.	M.A.

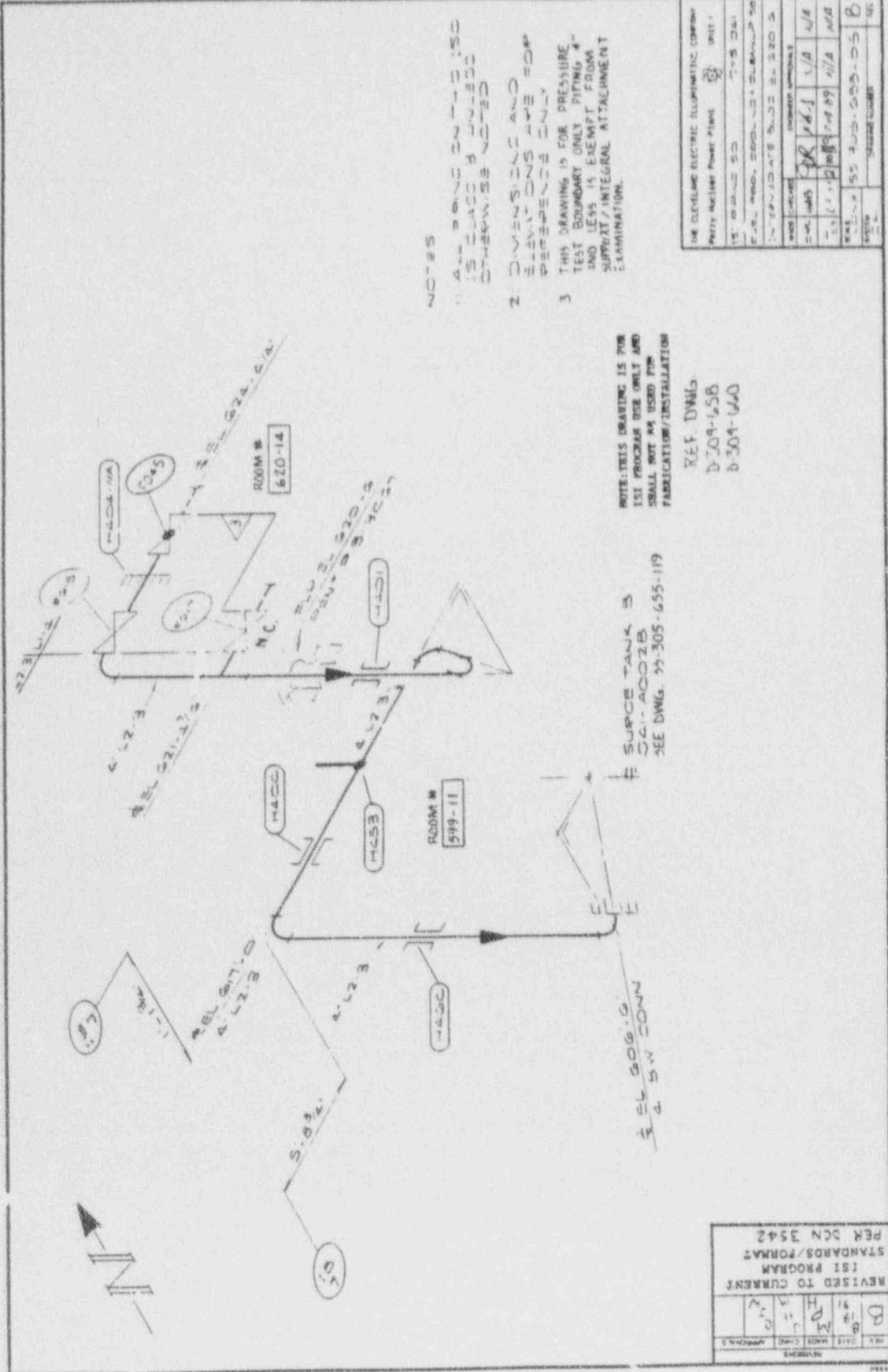


NOTES:  
 1. ALL PIPING ON THIS ISO IS CLASS 3.  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION  
 REF. DWG.  
 D-304-LSB

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	UNIT 1
1ST PIPING ISO	SYS 541
FUEL POOL COOL. & CLEANUP	
INITIAL BLDG. ELS 112	
DATE	55-305-655-104
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
SCALE	
PROJECT NUMBER	
FIG. NO.	

REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCN 3542
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- NOTES
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
  2. DIMENSIONS AND TOLERANCES ARE FOR PERMANENT ONLY.
  3. THIS DRAWING IS FOR PRESSURE TEST BOUNDARY ONLY. PIPING 4" AND LESS IS EXEMPT FROM SUPPORT / INTEGRAL ATTACHMENT EXAMINATION.

THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	UNIT
15-000-000-000-000-000-000	15-000-000-000-000-000-000
DATE	DATE
15-000-000-000-000-000-000	15-000-000-000-000-000-000
BY	CHECKED
15-000-000-000-000-000-000	15-000-000-000-000-000-000
DATE	DATE
15-000-000-000-000-000-000	15-000-000-000-000-000-000
BY	CHECKED
15-000-000-000-000-000-000	15-000-000-000-000-000-000
DATE	DATE
15-000-000-000-000-000-000	15-000-000-000-000-000-000

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

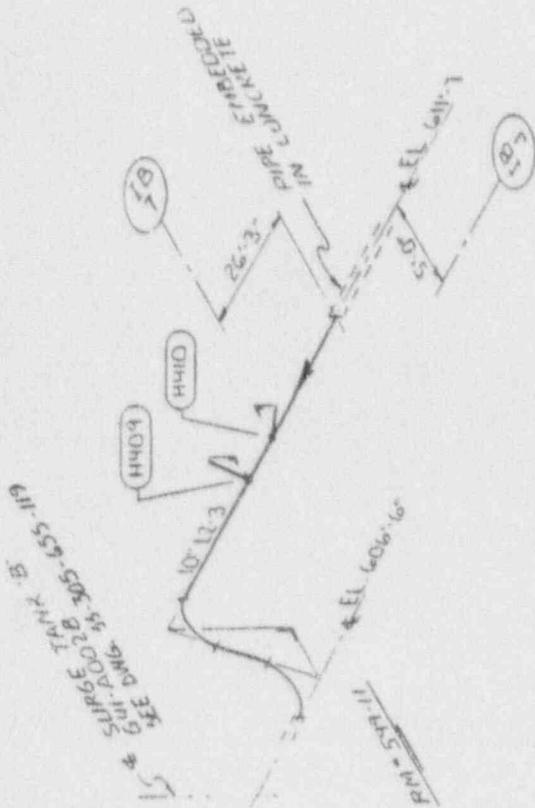
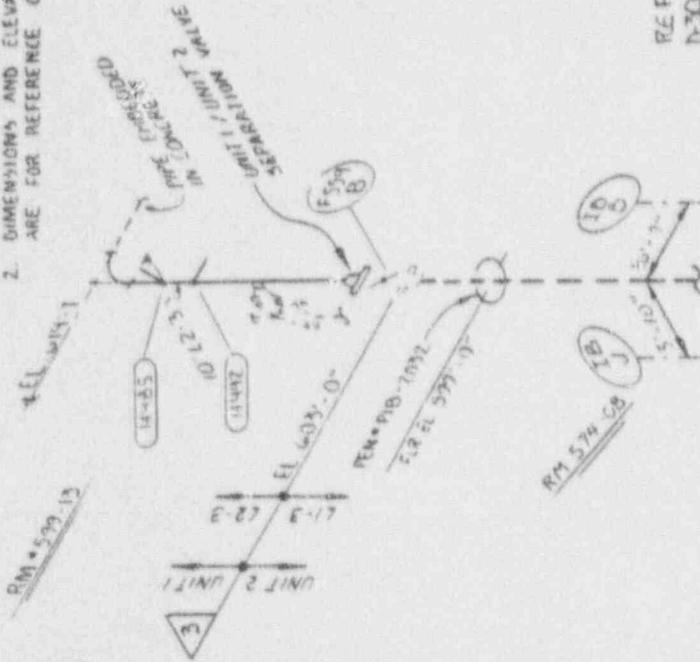
SEE DWG. 99-305-655-119  
 SURGE TANK IS  
 041-0002B  
 SEE DWG. 99-305-655-119

REF. DWGS  
 B-209-658  
 B-309-660

REVISED TO CURRENT	PER DCN 3542
ISI PROGRAM	STANDARDS/FORMAT
DATE	BY
15-000-000-000-000-000-000	15-000-000-000-000-000-000
DATE	BY
15-000-000-000-000-000-000	15-000-000-000-000-000-000

NOTES:

1. ALL PIPING ON THIS ISD IS CLASS-3.
2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

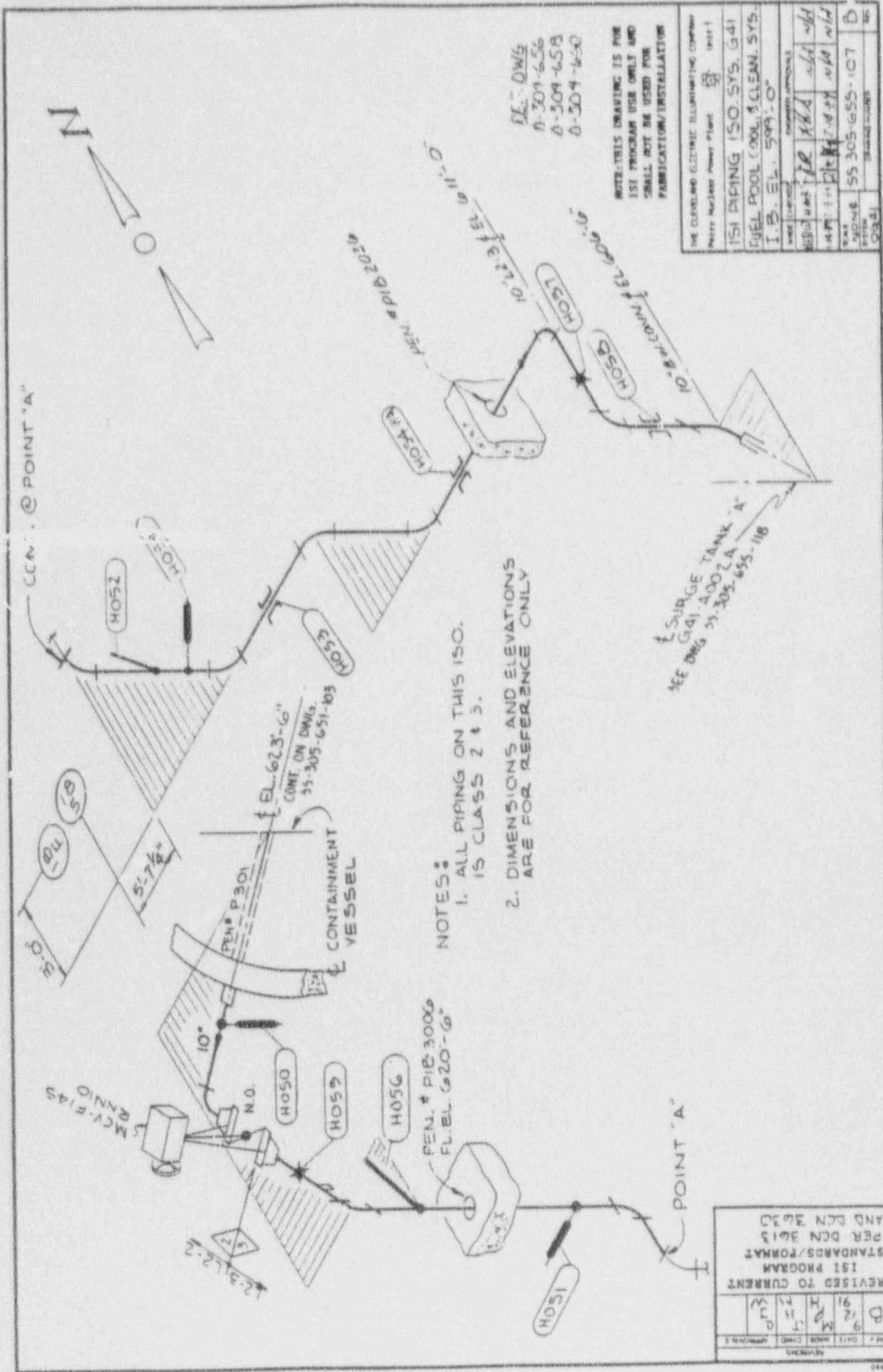


REF DWG  
D-30A-658

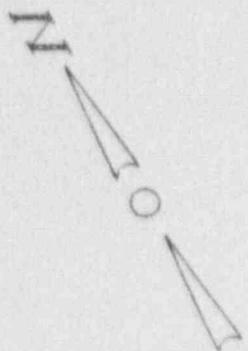
NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROPERTY NUMBER	Plant 51 UNIT
ISI PIPING ISD	515 541
FUEL POOL LOOK & CLEANUP	
INTERM - ELS	EL 574.0
DATE	10/2/88
BY	JAB
CHECKED	JAB
SCALE	AS SHOWN
PROJECT NUMBER	35-305-655-102
ISSUE NUMBER	0

REVISED TO CURRENT	ISI PROGRAM	STANDARDS/FORMAT	PER DCN 3542
D	B	M	J
1	2	3	4



CCN: @ POINT "A"



- NOTES:
1. ALL PIPING ON THIS ISO. IS CLASS 2 & 3.
  2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

EL. DWG  
 0-309-656  
 0-309-658  
 0-309-660

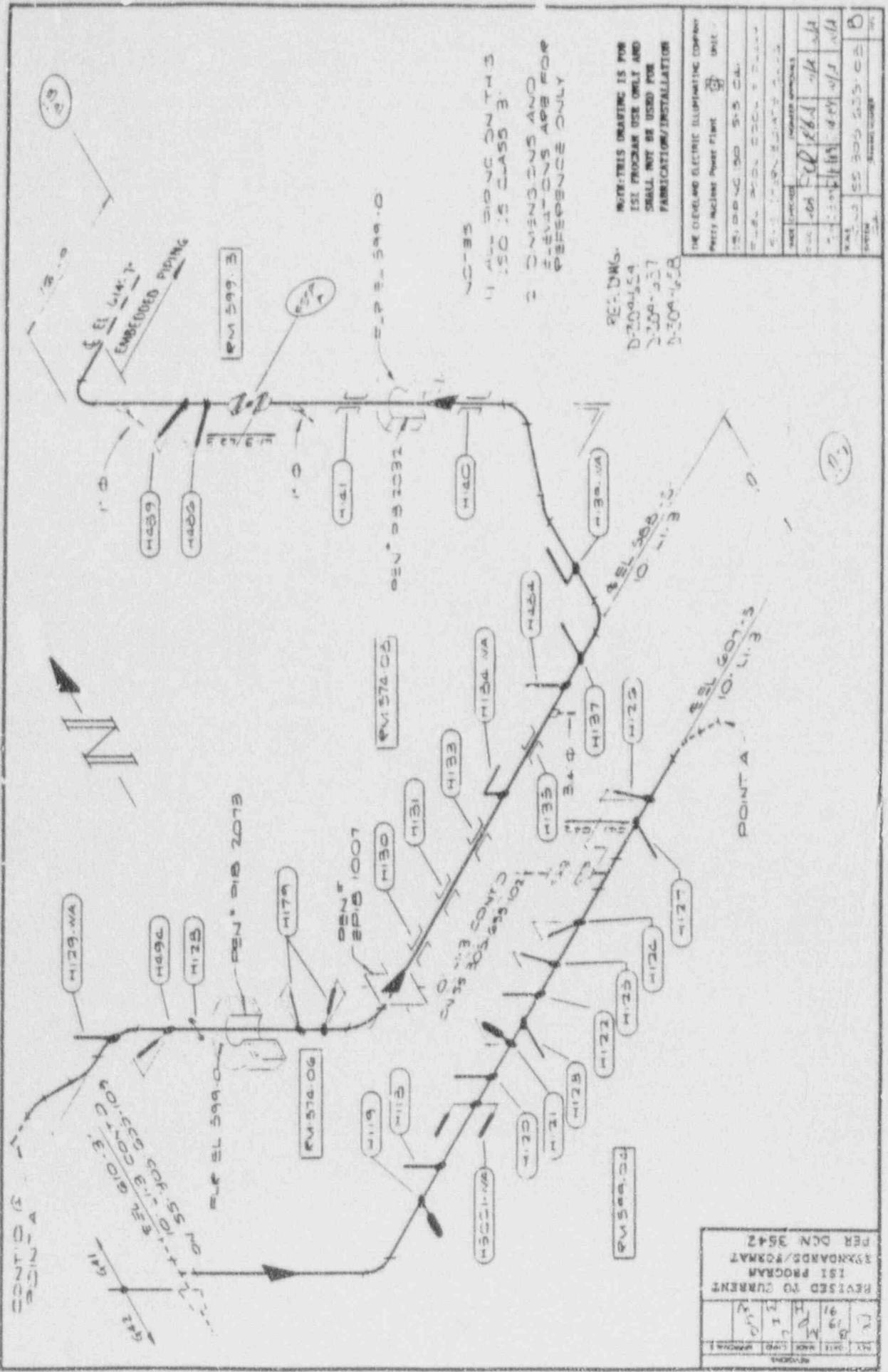
NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

↑ SURGE TANK "A"  
 G41-4002 LA  
 SEE DWG 55-305-655-118

REV	DATE	BY	CHKD	APP'D
1	91	M	H	J
2	91	H	H	J
3	91	H	H	J
4	91	M	H	J
5	91	M	H	J

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3613  
 AND DCN 3630

THE DEVELOPER	ENGINEERING COMPANY	PROJECT NAME	UNIT
THE DEVELOPER	ENGINEERING COMPANY	PROJECT NAME	UNIT
151 PIPING ISO. SYS. G41			
DIJEL POOL COOL. & CLEAN. SYS.			
I.B. EL. 599'-0"			
DATE	SCALE	PROJECT NUMBER	REV
91	AS SHOWN	55-305-655-107	D



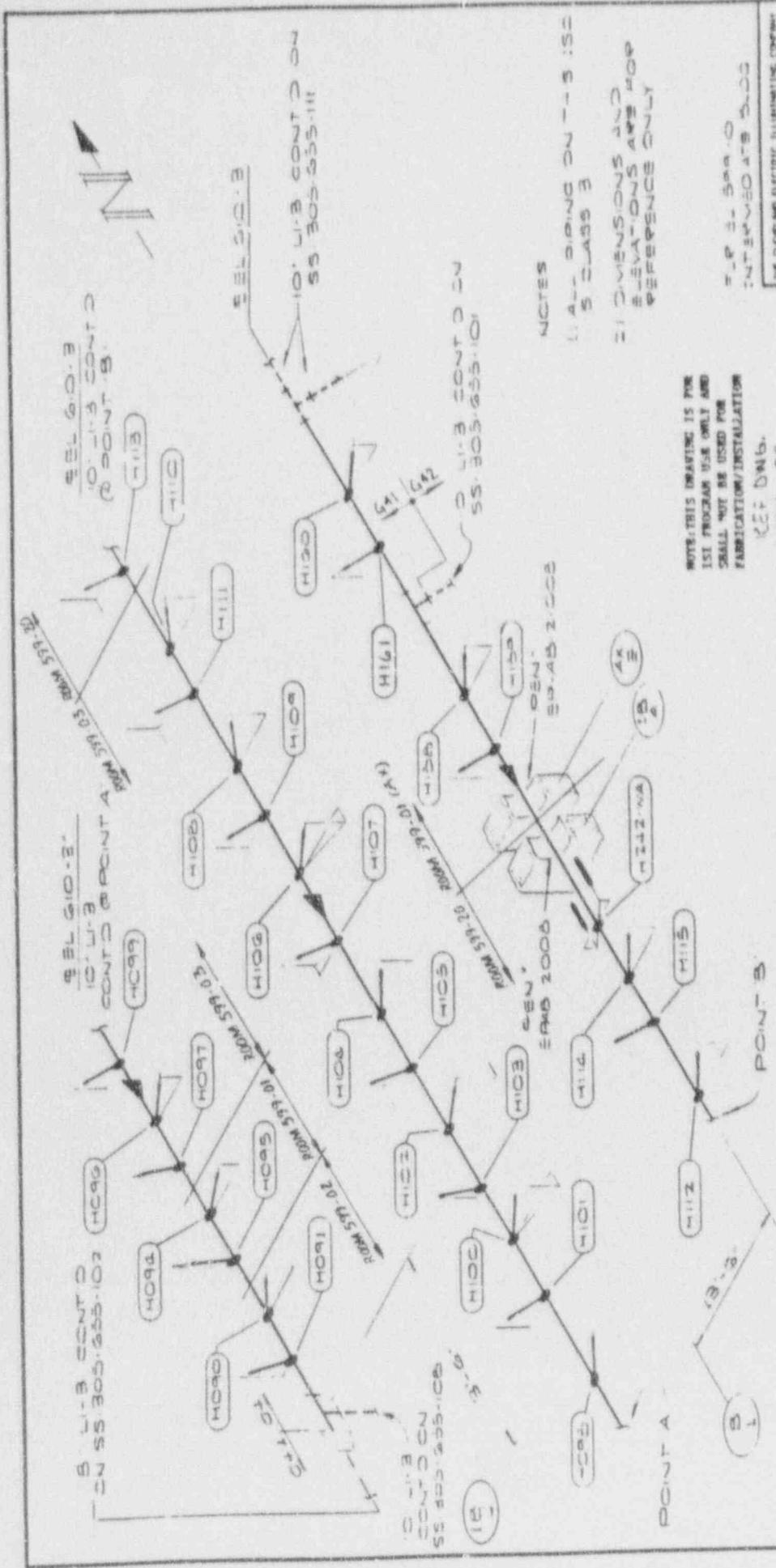
REVISIONS AND CHANGES ARE FOR PERIOD ONLY

NO.	DESCRIPTION	DATE	BY
1			
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THE DEVELOPMENT ELECTRIC ILLUSTRATING COMPANY  
 PREPARED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 SHEET NO: \_\_\_\_\_ OF \_\_\_\_\_  
 PROJECT NO: \_\_\_\_\_

REVISIONS TO CURRENT  
 151 PROGRAM  
 EXXONARDE/FORAM  
 PER DCN 3542

NO.	DESCRIPTION	DATE	BY
1			
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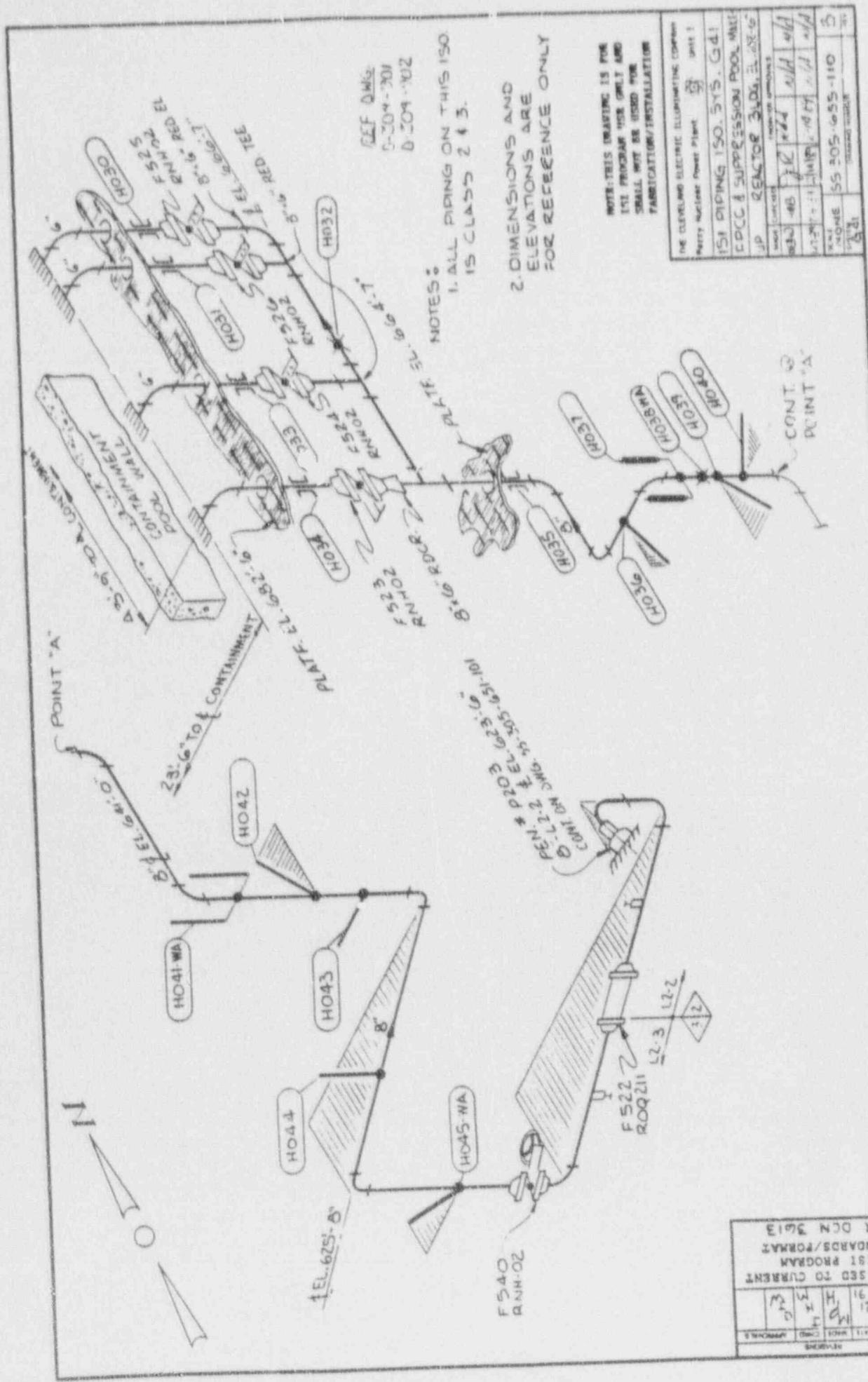


NOTES  
 1) ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE  
 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION  
 REF: DMB,  
 B-309-655  
 B-309-656  
 B-309-657

REV	DATE	BY	CHKD	APPV	DESCRIPTION
A	9/19/81	H	M		REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3942

PROJECT		THE DEARBORN ELECTRIC ILLUMINATING COMPANY
PROJECT NO.		100-100-100
SHEET NO.		100-100-100-100
SHEET TITLE		TRAY AND HANGER SYSTEM
DATE		10/1/80
DRAWN BY		SS 305-555-100
CHECKED BY		SS 305-555-100
APPROVED BY		SS 305-555-100



REF DWG:  
 S-204-701  
 B-209-102

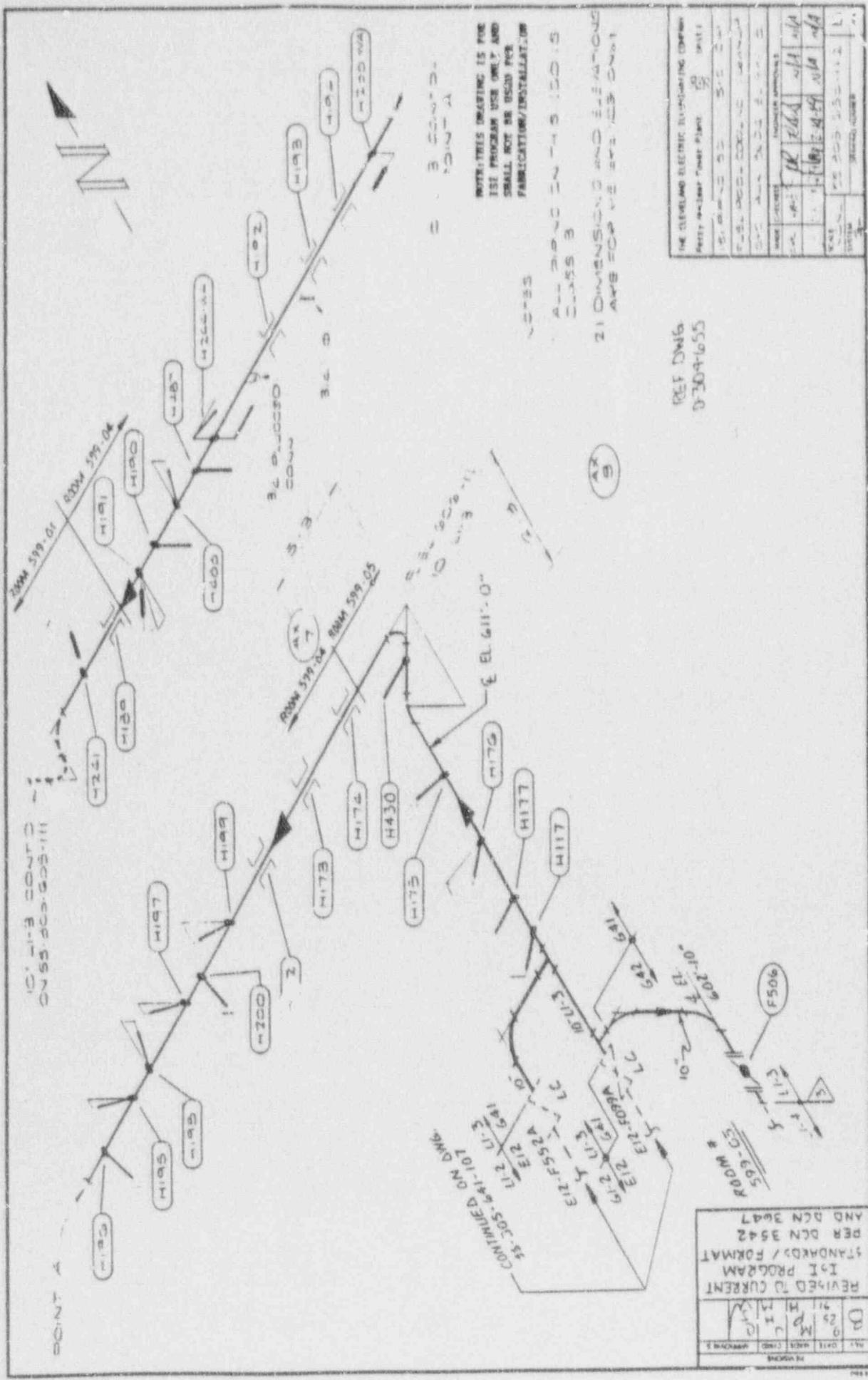
- NOTES:
1. ALL PIPING ON THIS ISO IS CLASS 2 & 3.
  2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

NOTES: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Nuclear Power Plant	
151 PIPING ISO. SYS. G41	
EPCC & SUPPRESSION POOL MIT	
JP	REACTOR 3LDG. E. 2E-6
NO. 1030	REV. 1
DATE	55 205-655-110
SCALE	AS SHOWN

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3613
151 PROGRAM
NO. 1030
DATE
SCALE
REV. 1





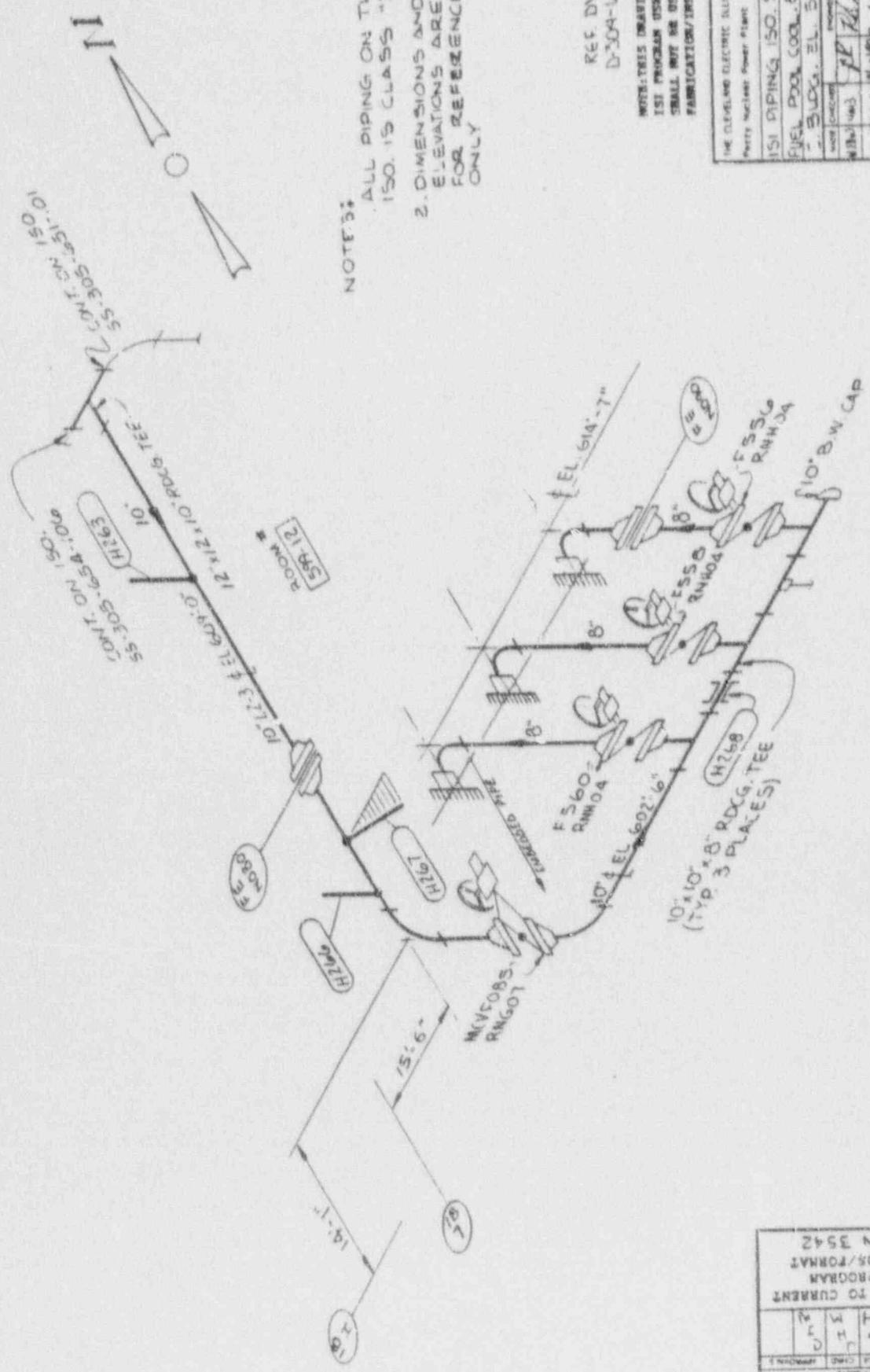
INSTRUMENTS IMAGING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

CLASS B  
 21 DIMENSIONS AND ELEVATIONS  
 ARE FOR USE ONLY

REF DWG  
 D-304-1655

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NO.	599-C5
DATE	10/1/55
SCALE	AS SHOWN
DESIGNED BY	J.P. [Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
TITLE	599-C5

REVISED TO CURRENT STANDARDS / FORMAT PER DCN 3542 AND DCN 3647
599-C5
FORM #
CONTINUED ON DWG. 58-305-41-107



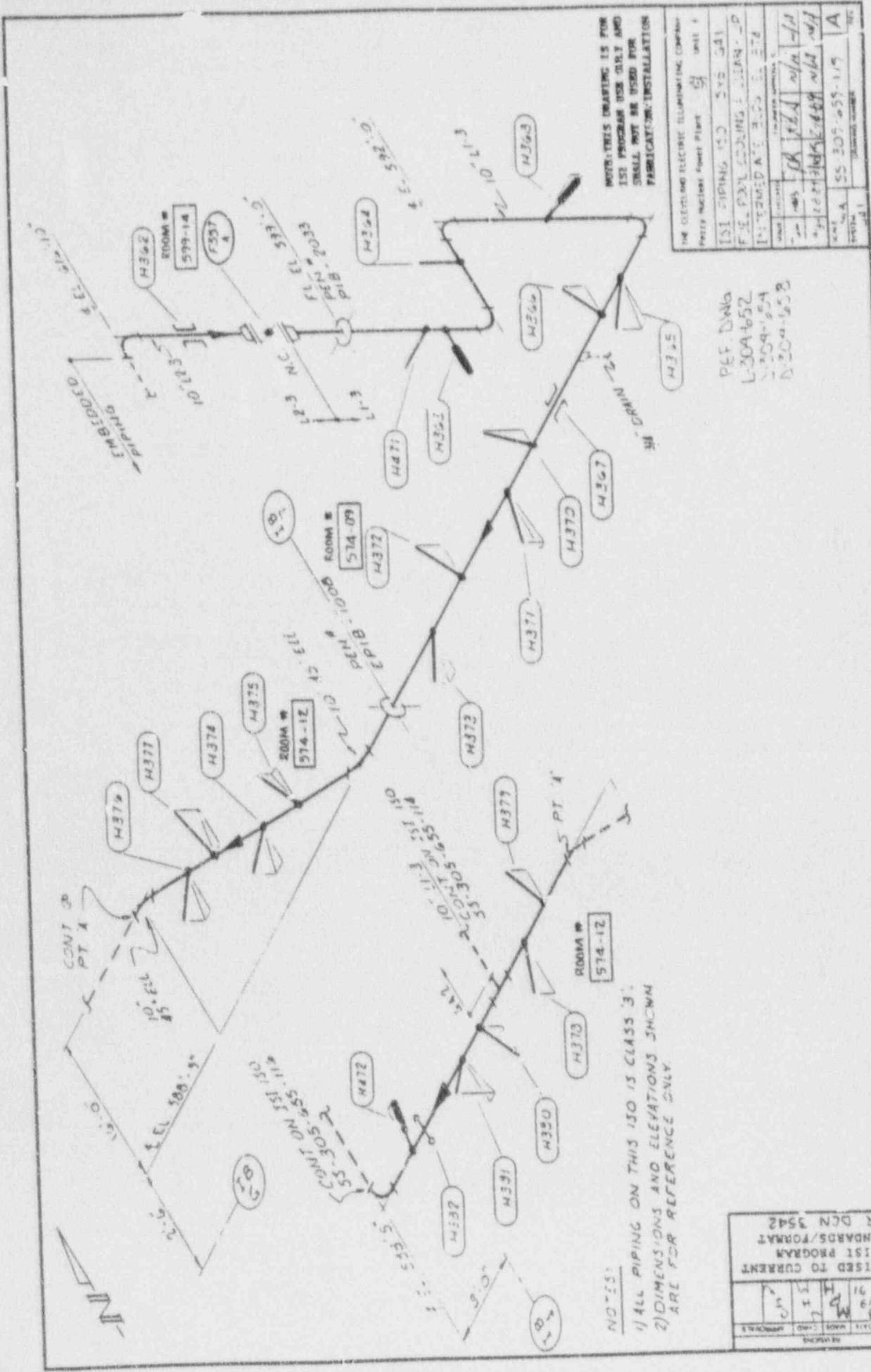
NOTE: THIS DRAWING IS FOR  
 1ST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF. DWG.  
 D-30A-65B

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 151 PIPING ISO. SYS. G141  
 FUEL POOL COOL. & CLEAN. SYS.  
 - BLDG. EL. 599.0'

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REVISED TO CURRENT				
1ST PROGRAM				
STANDARDS/FORMAT				
PER DCN 3542				



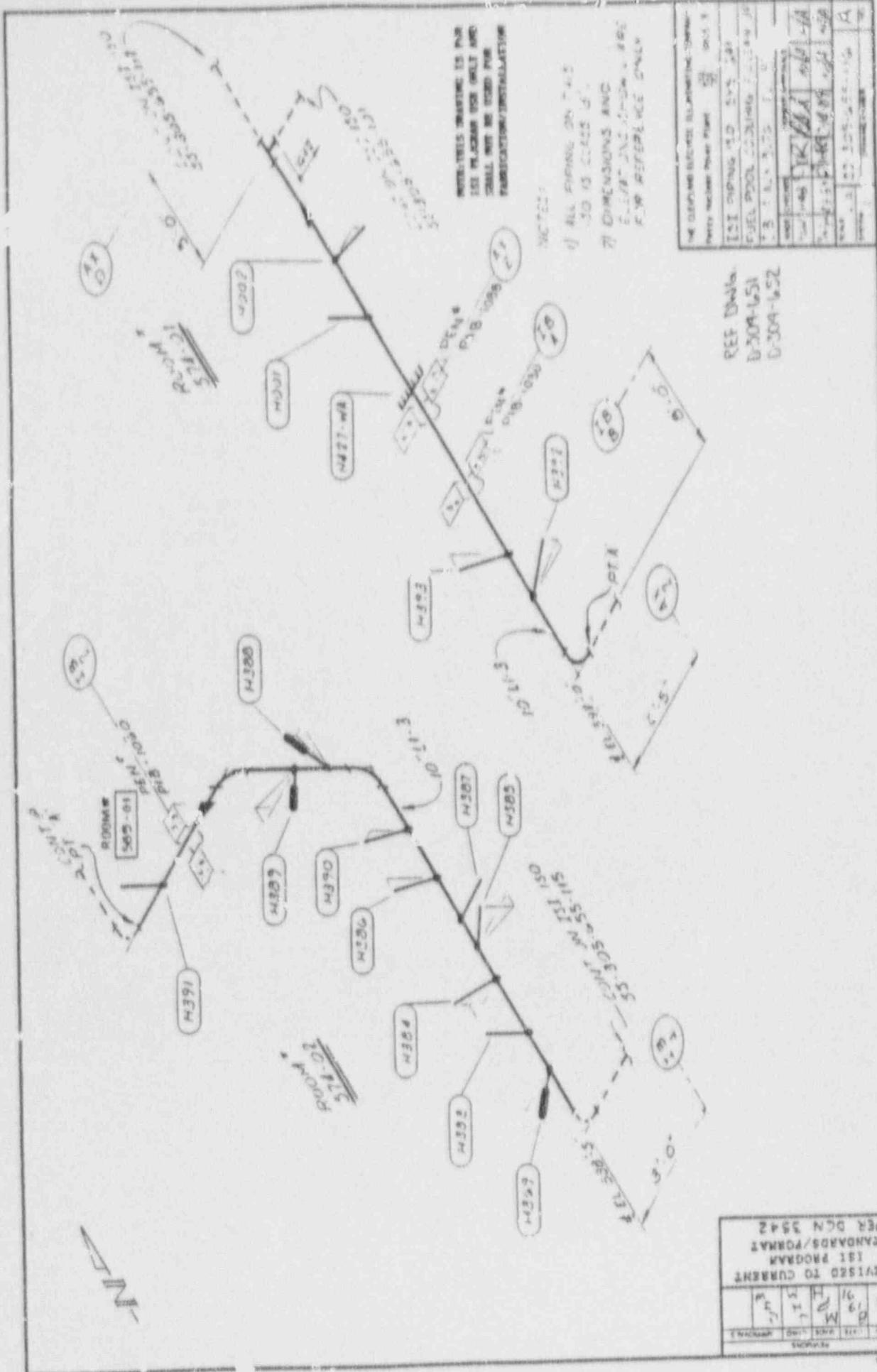
THIS DRAWING IS FOR  
 ISO PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE DESIGNING ELECTRIC ILLUMINATING COMPANY	
PARTY NAME: ELECTRIC POWER PLANT	UNIT: 1
ISI PIPING: 100	SYG: 5A1
FILE FOR CODING: CLEAN - 0	
INTERDATE: 100	100
DATE: 10/10/84	DATE: 10/10/84
SCALE: 1/8" = 1'-0"	SCALE: 1/8" = 1'-0"
NO. 1	NO. 1

PER DWA  
 L-30A-652  
 L-30A-654  
 D-30A-658

- NOTES:  
 1) ALL PIPING ON THIS ISO IS CLASS 3;  
 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	10/10/84	DWA	H		REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3542



NOTES:  
 1) ALL PIPING ON THIS DRAWING IS TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN SPECIFICATIONS FOR THE FUEL SYSTEM.  
 2) DIMENSIONS AND TOLERANCES ARE TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED.  
 3) REFER TO THE DESIGN SPECIFICATIONS FOR THE FUEL SYSTEM FOR THE LATEST REVISIONS.

REVISIONS		DATE		BY		CHECKED	
1	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
2	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
3	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
4	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
5	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
6	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
7	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
8	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
9	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]
10	AS SHOWN	10/1/50	J. J. [unclear]	[unclear]	[unclear]	[unclear]	[unclear]

REF DWG:  
 D-304-651  
 D-304-652

REVISIONS	DATE	BY	CHECKED
1	10/1/50	J. J. [unclear]	[unclear]
2	10/1/50	J. J. [unclear]	[unclear]
3	10/1/50	J. J. [unclear]	[unclear]
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6	10/1/50	J. J. [unclear]	[unclear]
7	10/1/50	J. J. [unclear]	[unclear]
8	10/1/50	J. J. [unclear]	[unclear]
9	10/1/50	J. J. [unclear]	[unclear]
10	10/1/50	J. J. [unclear]	[unclear]

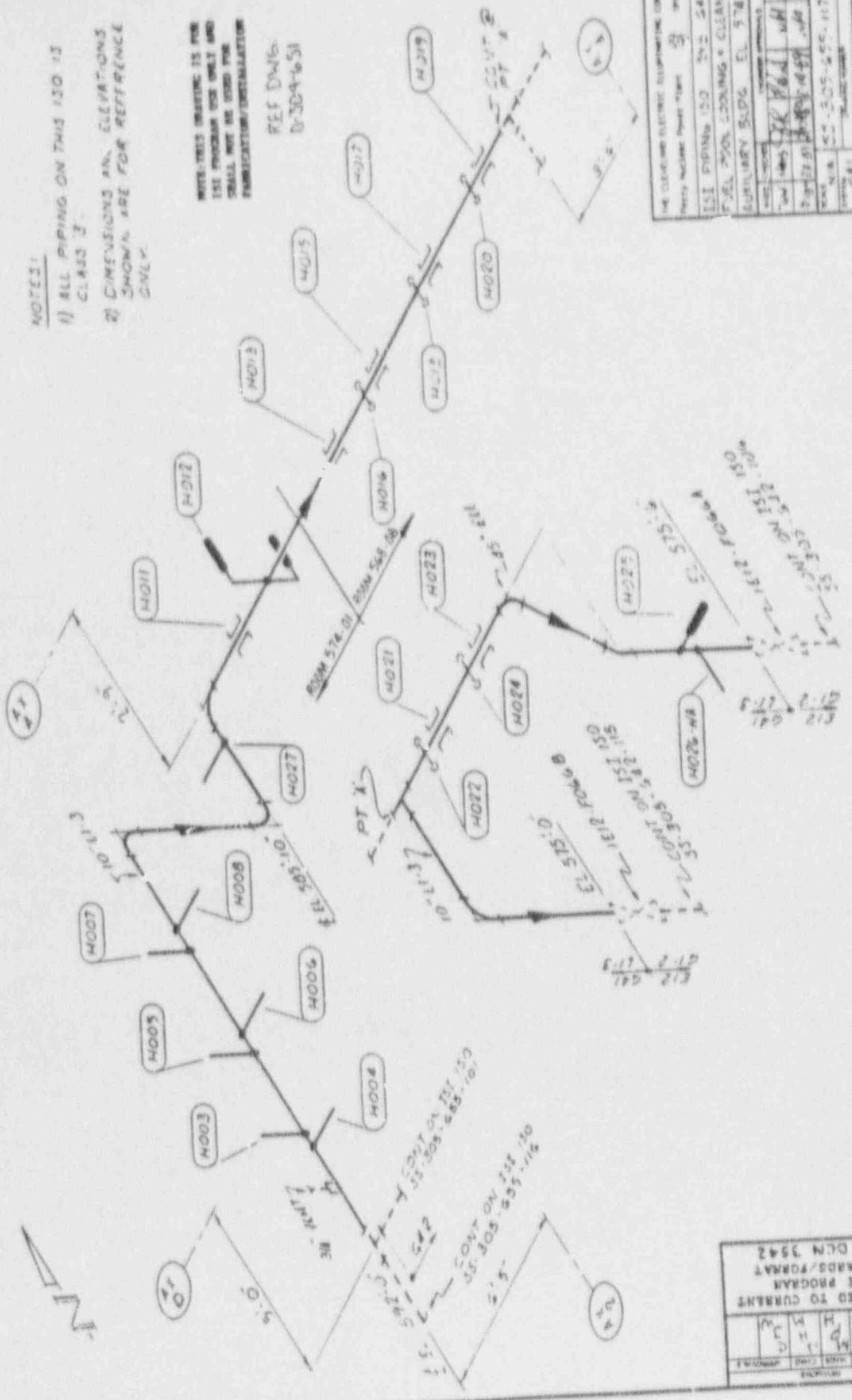
REVISED TO CURRENT  
 1ST PROGRAM  
 STANDARDS/FORMATS  
 PER DCN 3542

**NOTES:**

- 1) ALL PIPING ON THIS ISD IS CLASS 3.
- 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

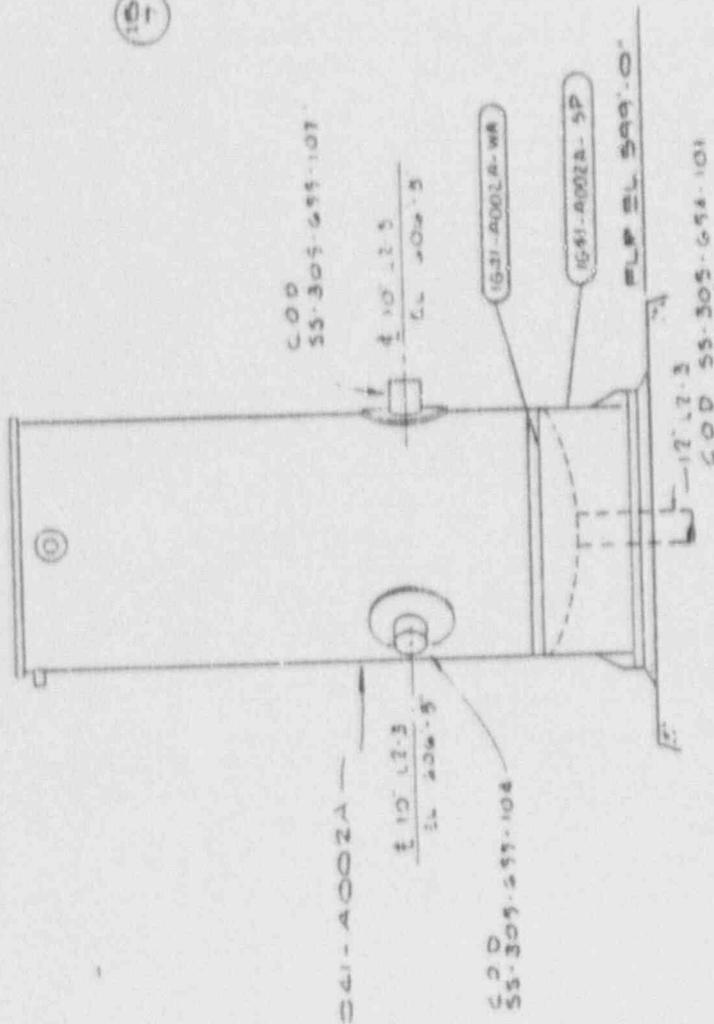
NOTE: THIS DRAWING IS FOR THE ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF DWG: D-304-651

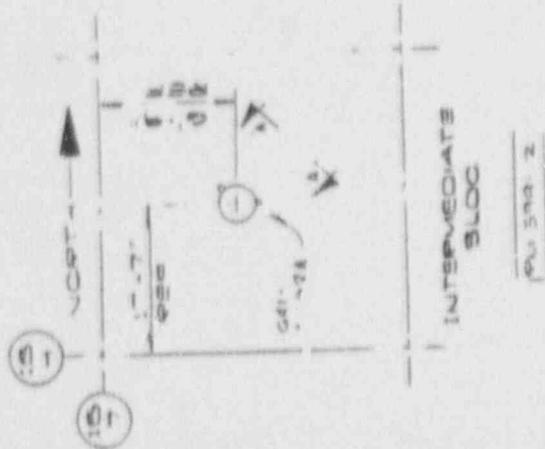


REV.	DATE	BY	APP.
A	11/18/81	J.K.	[Signature]
B	11/18/81	[Signature]	[Signature]
C	11/18/81	[Signature]	[Signature]
D	11/18/81	[Signature]	[Signature]
E	11/18/81	[Signature]	[Signature]

REVISED TO CURRENT STANDARDS/FORMAT PER DCM 3542



SECTION 'A-A'



NOTES

- 1) SUPCE TANK C41-4002A IS 151 CLASS B'
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

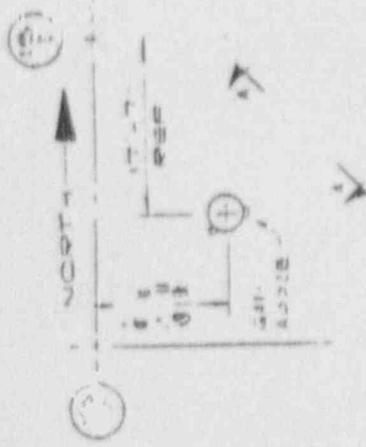
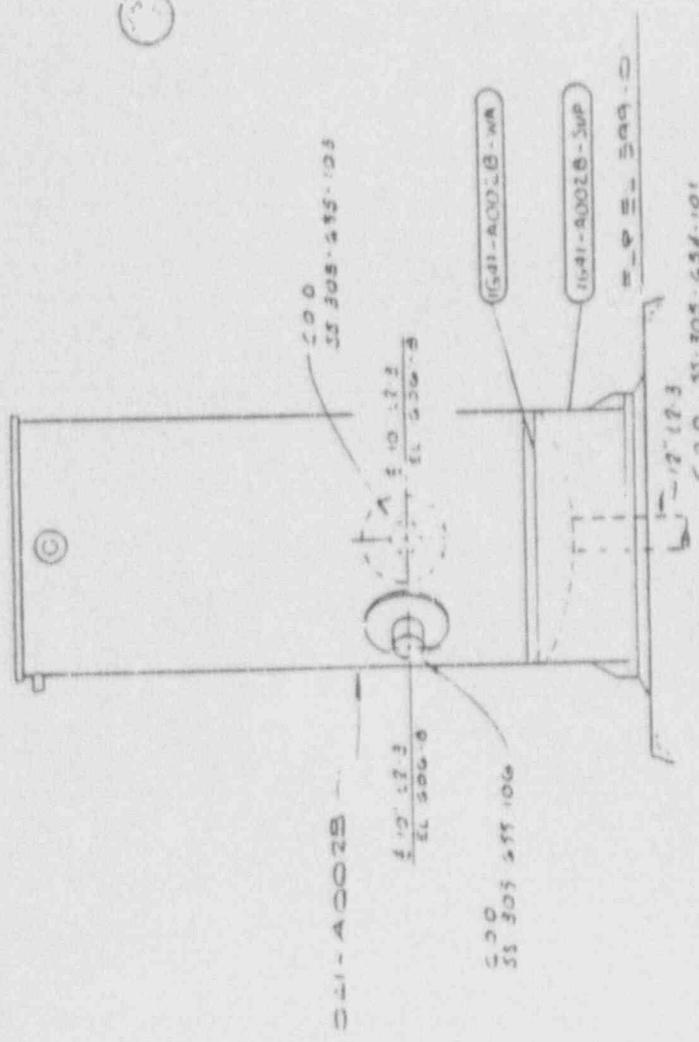
PER DWG.

4509-31-207-3  
A-30-658

NOTE: THIS DRAWING IS FOR THE 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC BULKHEADING COMPANY		Sheet 1
Part Number: Power Plant		
151 DETAIL DWG	C41	
FUEL POOL COOLING		
AND CLEAN-UP SYS		
REV	DATE	APPROVED
1	11/16	[Signature]
2	12/11	[Signature]
3	12/11	[Signature]
4	12/11	[Signature]
5	12/11	[Signature]
6	12/11	[Signature]
7	12/11	[Signature]
8	12/11	[Signature]
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28	12/11	[Signature]
29	12/11	[Signature]
30	12/11	[Signature]

REVISED TO CURRENT	16	12	11
STANDARDS/FORMAT	16	12	11
PER DCN 5013	16	12	11



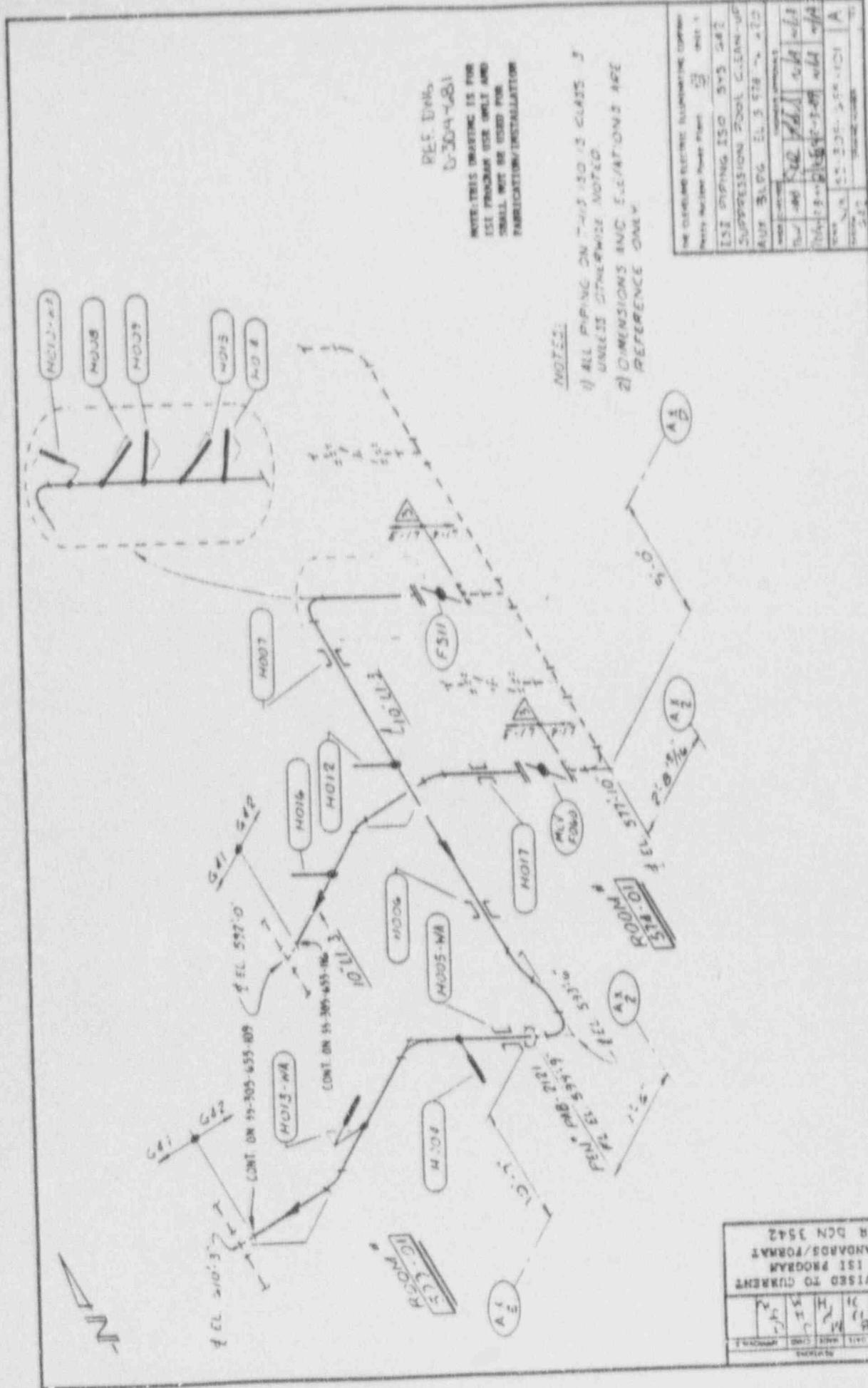
- NOTES**
- 1) SURGE TANK 441-AD01B IS 151 CLASS B
  - 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

PER DWG  
 2500-21-207-B  
 D-304-658

DESIGNER: STANLEY B. BROWN  
 CHECKED: J. W. BROWN  
 DATE: 12/1/58

NO. 1	DATE	BY	DESCRIPTION
1	12/1/58	STANLEY B. BROWN	ISSUED FOR FABRICATION
2	12/1/58	J. W. BROWN	CHECKED
3	12/1/58	STANLEY B. BROWN	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3613

NO.	DATE	BY	DESCRIPTION
1	12/1/58	STANLEY B. BROWN	ISSUED FOR FABRICATION
2	12/1/58	J. W. BROWN	CHECKED
3	12/1/58	STANLEY B. BROWN	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3613



REF. DWGS  
 U-304-48A

NOTES: THESE DRAWINGS ARE FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

- NOTES:
- 1) ALL PIPING ON THIS IS CLASS 3 UNLESS OTHERWISE NOTED.
  - 2) DIMENSIONS AND ELEVATIONS ARE REFERENCE ONLY.

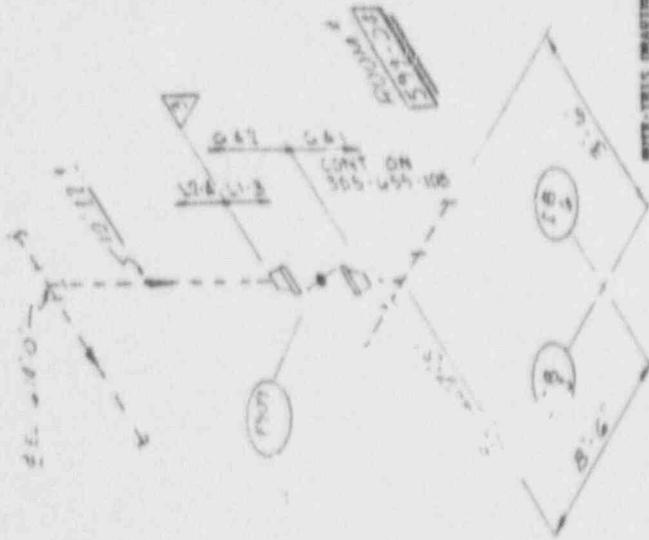
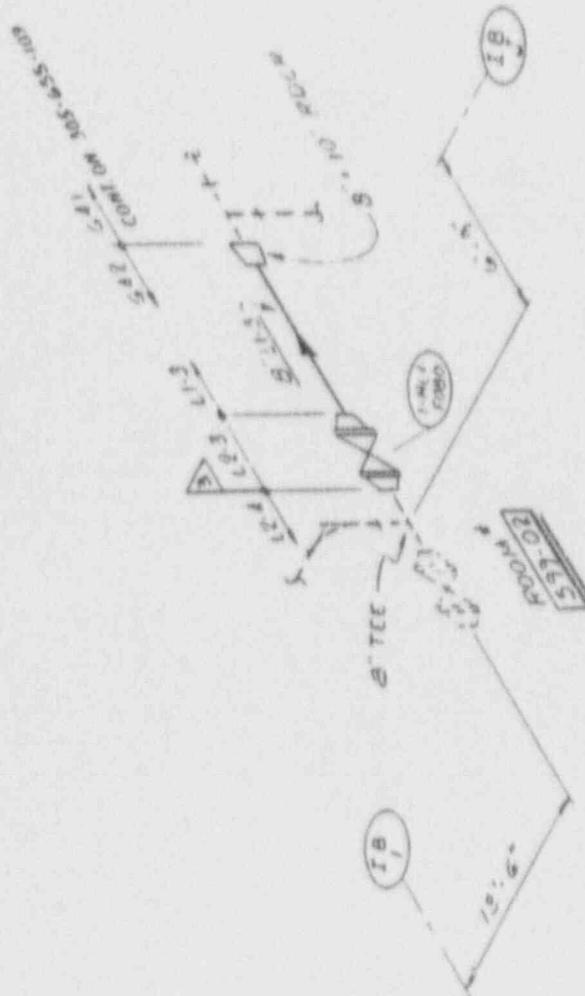
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name	Sheet 1
ISSUING ISD	575 242
SUPPRESSION POOL CLEAN-UP	
REV. NO.	REV. DATE
1	11/11/81
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REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCM 3542	
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**NOTES:**

- 1) ALL PIPING ON THIS I30 IS CLASS B UNLESS OTHERWISE NOTED
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY



THIS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATING/INSTALLATION

REV. DWNLS  
2-30-685

REVISION	DATE	BY	CHKD	APP'D
A	2/21/68	M	H	C
B	2/21/68	M	H	C
C	2/21/68	M	H	C
D	2/21/68	M	H	C
E	2/21/68	M	H	C

REVISED TO CURRENT I31 PROGRAM STANDARDS/FORMAT PER DCN 3942

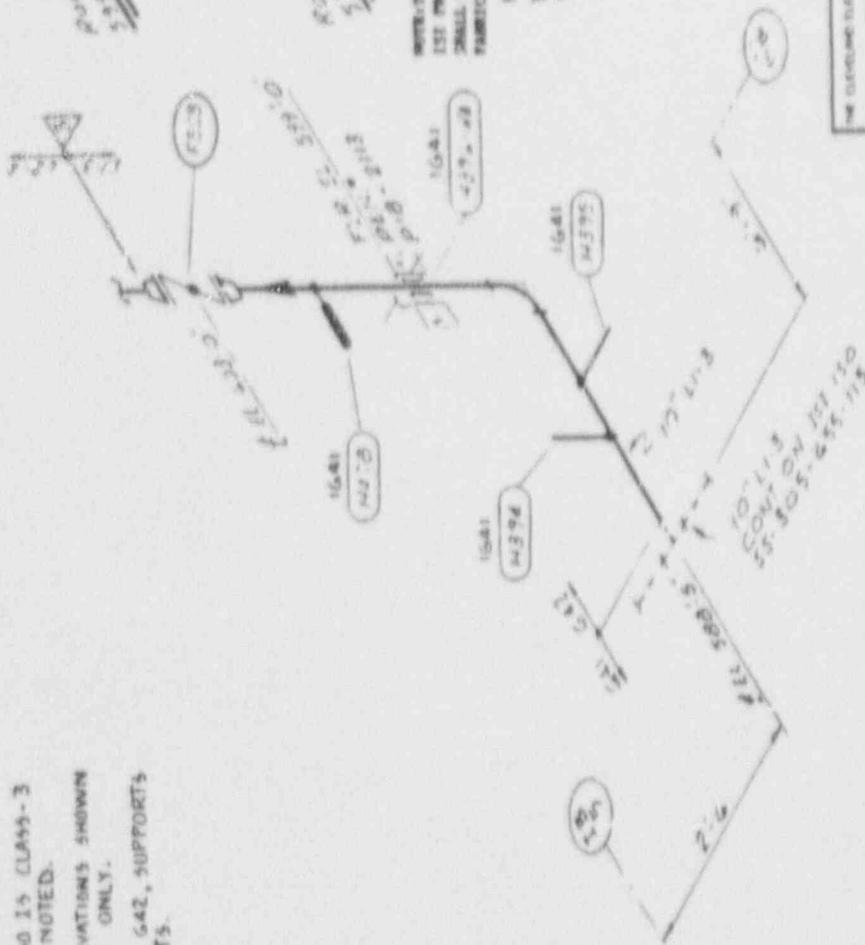
NO. OF SHEETS	1
TOTAL NO. OF SHEETS	1
DATE	2-21-68
PROJECT NO.	55-309-633-102
DRAWN BY	M
CHECKED BY	H
APPROVED BY	C

THE DESIGNING ENGINEER (ILLUSTRATING COMPANY) SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION/INSTALLATION

THIS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATING/INSTALLATION

NOTES :

1. ALL PIPING ON THIS IS CLASS-3 UNLESS OTHERWISE NOTED.
2. DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.
3. ALTHOUGH PIPING IS CLASS 3, SUPPORTS ARE ALL CLASS 1.



REF. DWGS.  
 1-30A-102  
 2-30A-103

THE FOLLOWING ELECTRIC ILLUSTRATION COMPRISES:	
PIPING	CLASS 3
ISI PIPING	150
SUPPORTS ON POOL CLEAN-UP	515 642
INTERMEDIATE BAYS	515 642
DATE	10/1/68
BY	J.R. [Signature]
CHECKED BY	[Signature]
APP. NO.	55-305-644-113
SCALE	AS SHOWN

REVISED TO CURRENT	1	10/1/68	J.R.
STANDARDS/FORMATS	1	10/1/68	J.R.
PER DCN 3542	1	10/1/68	J.R.

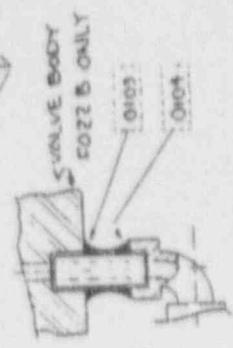
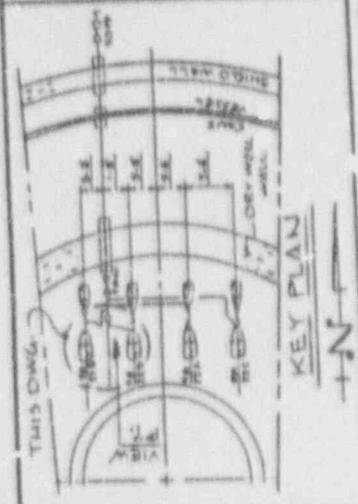
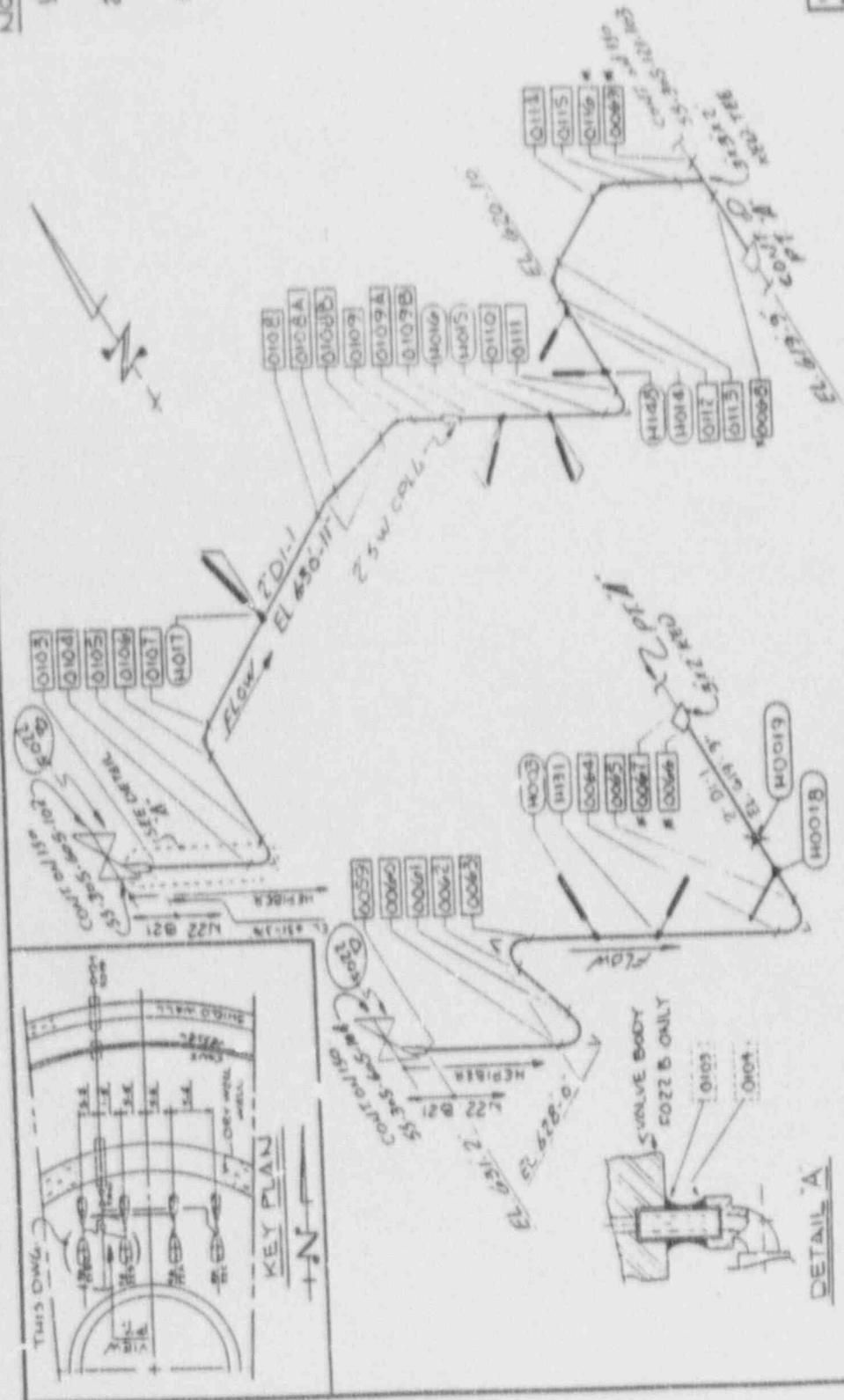
**NOTES:**

- 1) ALL PIPING ON THIS IS 150 LB CLASS 'I'
- 2) P/S1 08-05  
151-N72-001
- 3) WELDS MARKED WITH AN ASTERISK ARE BUTT WELDS, ALL OTHER WELDS ARE SOCKET WELDS.

REF DWG:  
D-309-508

WELDS MARKED WITH AN ASTERISK ARE BUTT WELDS AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC INSTALLATION COMPANY	
Project Name: 151-N72-001	Sheet: 1
151-N72-001	515-N72
MISC. DRAIN SYSTEM	
REATOR BLDG NORTH DRY WEL 520	
DATE: 11/15/88	BY: MJA
SCALE: 1/4" = 1'-0"	
PROJECT NO: 55-305-121-101	
DATE: 11/15/88	



REVISION	DATE	BY	CHK
1		MJA	
2		SL	
3		SL	
4		SL	
5		SL	

REVISED TO CURRENT I&I PROGRAM STANDARDS/FORMAT PER DCN 3613

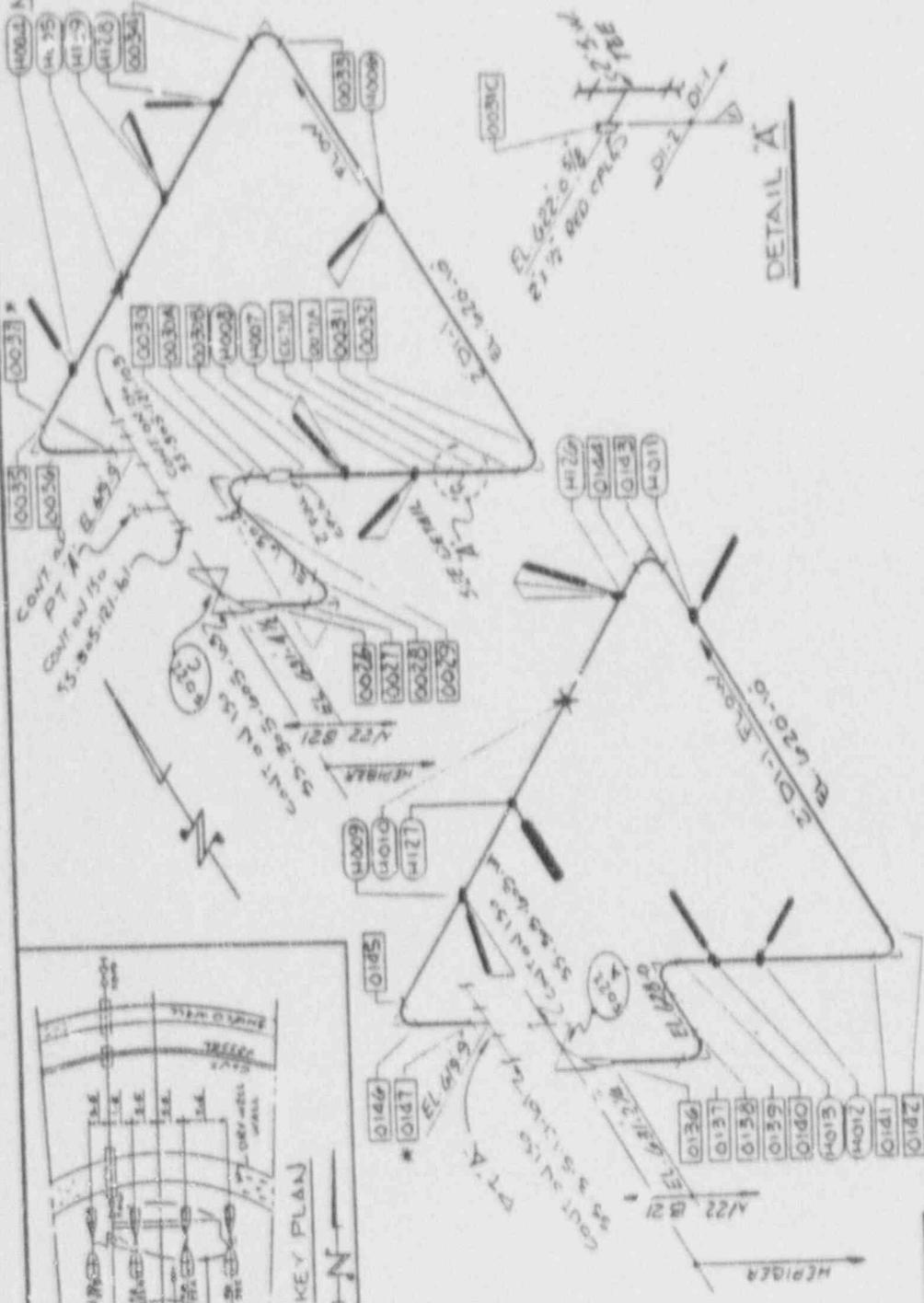
**NOTES**

- 1) ALL PIPING ON THIS IS 150 LB CLASS I
- 2) PSI 08-05  
151-NZZ-001
- 3) WELDS MARKED WITH AN ASTERISK ARE BUTT WELDS, ALL OTHER WELDS ARE SOCKET WELDS.

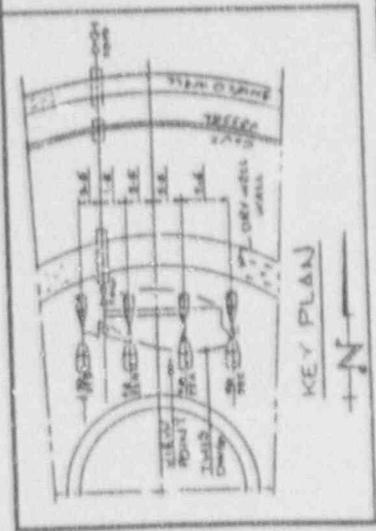
SEE ENDS  
D-307-501

INSTRUMENTS MARKING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CHEVROLET ELECTRIC ILLUMINATING COMPANY	
Project Name: <i>Power Plant</i>	Sheet: <i>1</i>
151 PIPING 150	SY: NZZ
LARGE MISC. DRAIN SYSTEM	
CREATOR: BLOOM HUBER DRY-WELL 670	
Author: <i>W. J. ...</i>	Rev: <i>1</i>
Scale: <i>1/4" = 1'-0"</i>	Proj: <i>151</i>
Drawn: <i>W. J. ...</i>	Checked: <i>W. J. ...</i>
Approved: <i>W. J. ...</i>	Date: <i>10/21/68</i>



**DETAIL 'A'**



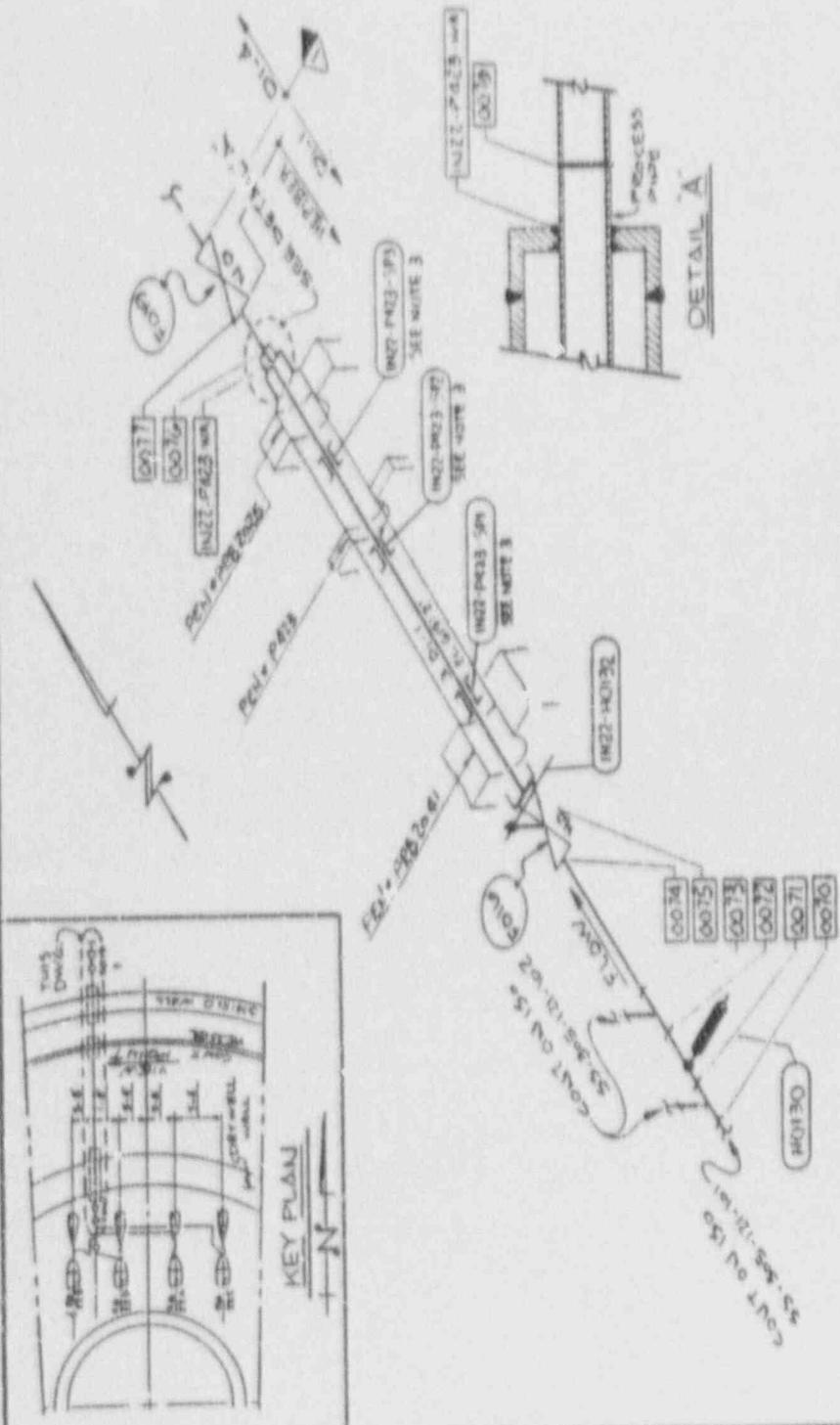
NOTES

- 1) ALL PIPING ON THIS ISO IS CLASS I
- 2) PSI 08-05  
151-NZZ-001
- 3) THESE SUPPORTS ARE INSIDE THE PENETRATION GUARD PIPE AND ARE INACCESSIBLE FOR EXAMINATION

REF DWG: D204-501

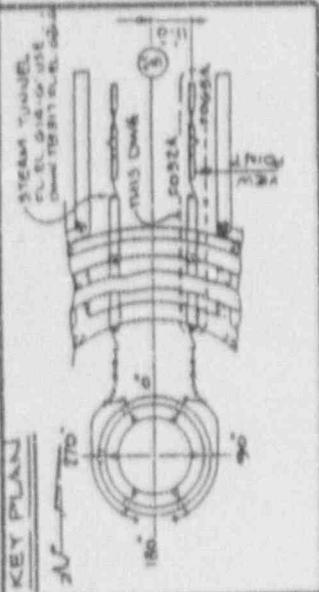
NOTICES DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE SUPPLIER ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
151 P-PN16 150	SYS: NZZ
MARE MISC. DRAIN SYSTEM	
CREATOR: BLDG. MINDS. DEV. MBL.	
DATE: 03/18/05	BY: M/A
DATE: 04/18/05	BY: M/A
DATE: 05/30/05	BY: M/A

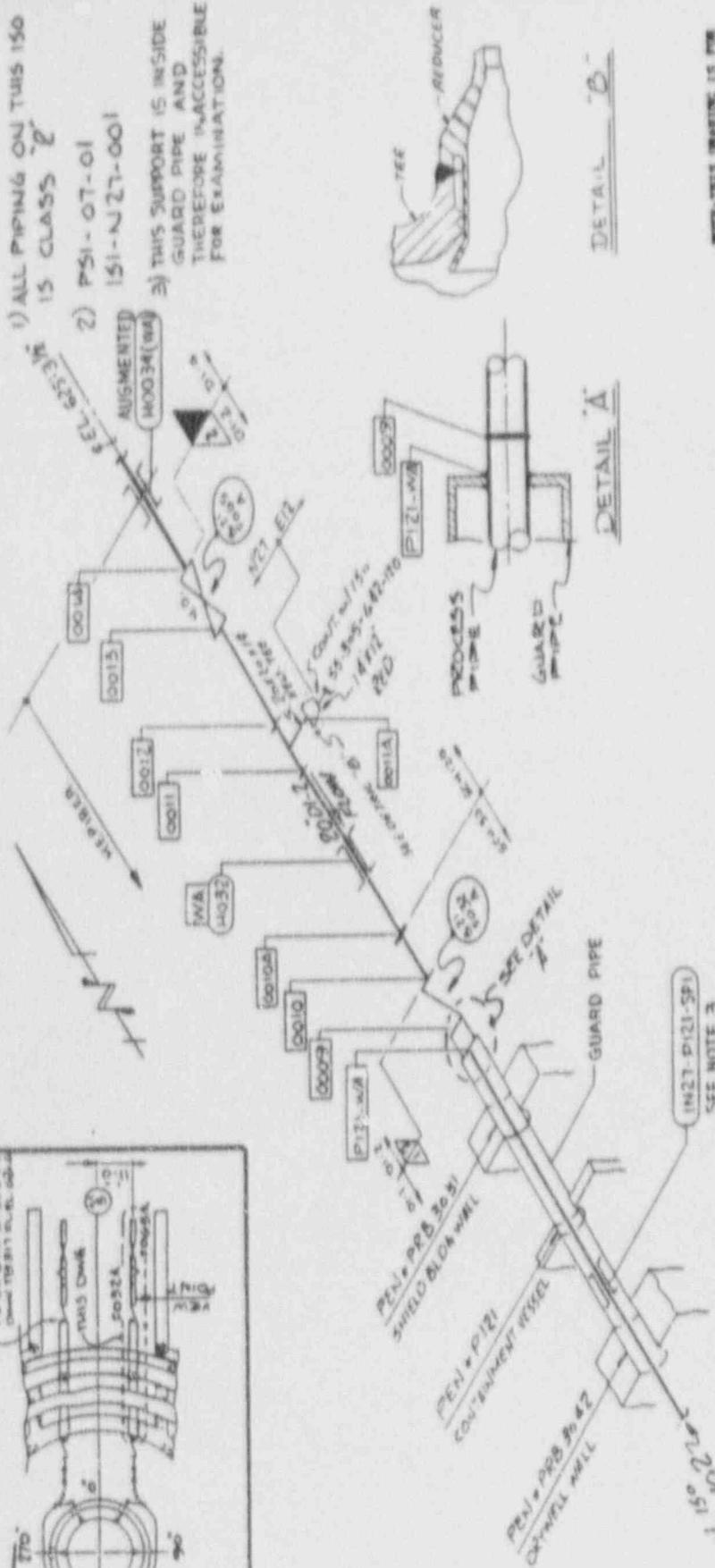


REV	DATE	BY	CHK	APP
1	05/30/05	M/A	M/A	
2	05/30/05	M/A	M/A	
3	05/30/05	M/A	M/A	
4	05/30/05	M/A	M/A	
5	05/30/05	M/A	M/A	

REVISED TO CURRENT ISO PROGRAM STANDARDS/FORMAT PER DCN 3542



- NOTES:**
- 1) ALL PIPING ON THIS 150 IS CLASS "B"
  - 2) PSI - 07-01  
151-N-27-001
  - 3) THIS SUPPORT IS INSIDE GUARD PIPE AND THEREFORE INACCESSIBLE FOR EXAMINATION.



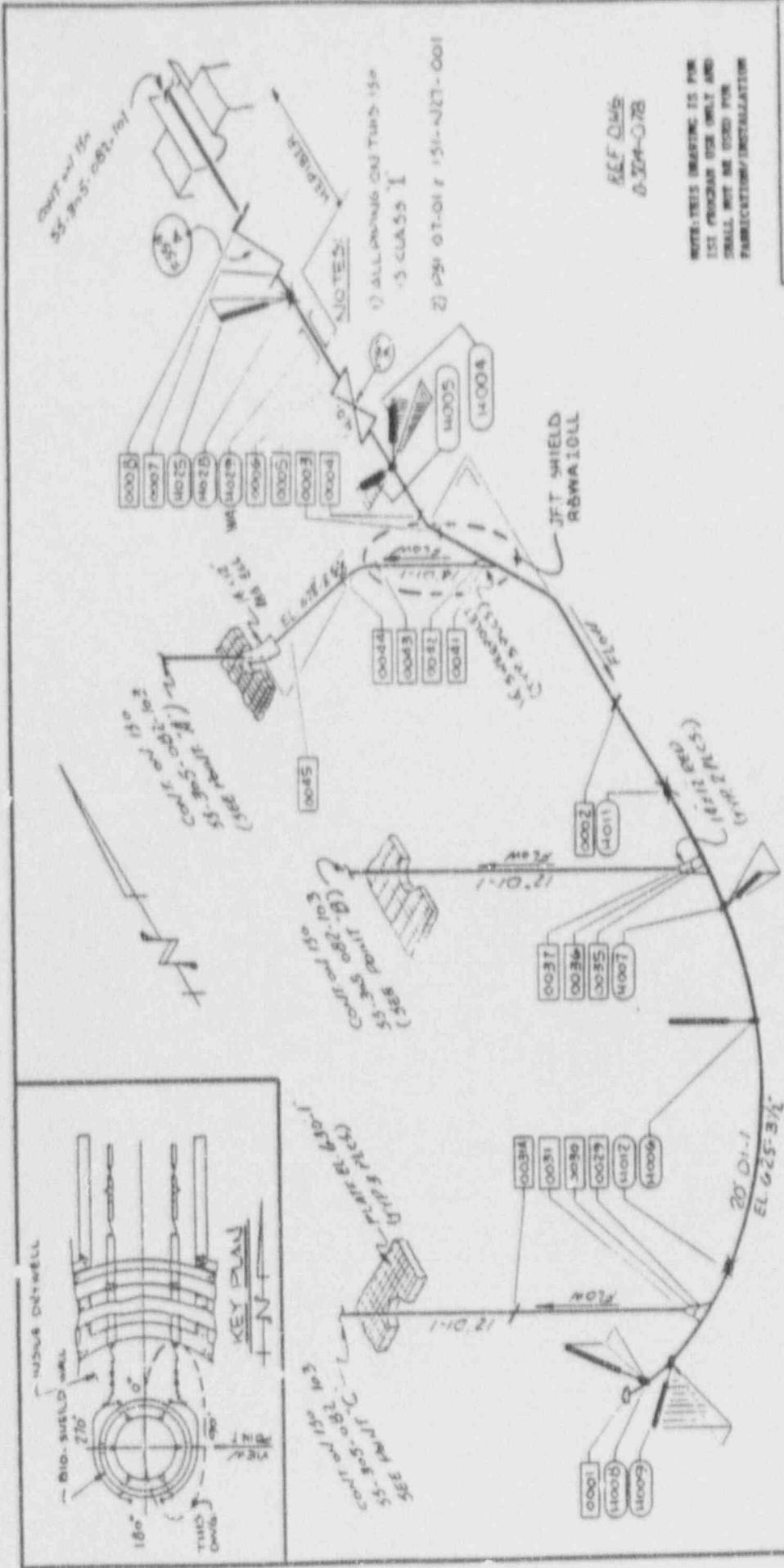
INTER-ITS DRAWING IS FOR 150 PROGRAM SIZE WELT AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REF. D.M/G  
D-304-C-78

REV	DATE	BY	CHK	DESCRIPTION
1	10/11/67	J.B.	J.B.	ISSUED FOR FABRICATION
2	11/16/67	J.B.	J.B.	REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER D.C.N. 3613

55-305-082-107-20

REV	DATE	BY	CHK	DESCRIPTION
1	10/11/67	J.B.	J.B.	ISSUED FOR FABRICATION
2	11/16/67	J.B.	J.B.	REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER D.C.N. 3613



THE FOLLOWING ELECTRICAL ILLUSTRATING COMPANY  
 HAS BEEN SELECTED FOR THE DESIGN AND FABRICATION OF THIS PROJECT.

PROJECT NO.	55-305-082-102
REACTOR FREEDOM LAMP A	
NO. OF SHEETS	15
DATE	11/14/68
BY	J. H. H.
CHECKED	J. H. H.
DATE	11/14/68
BY	J. H. H.
CHECKED	J. H. H.
DATE	11/14/68
BY	J. H. H.
CHECKED	J. H. H.
DATE	11/14/68

NOTES: DRAWING IS FOR  
 1ST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF DMS  
 0-304-078

REVISED TO CURRENT  
 1ST PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3613  
 AND DCN 3630

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BY	J. H. H.														
DATE	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68	11/14/68

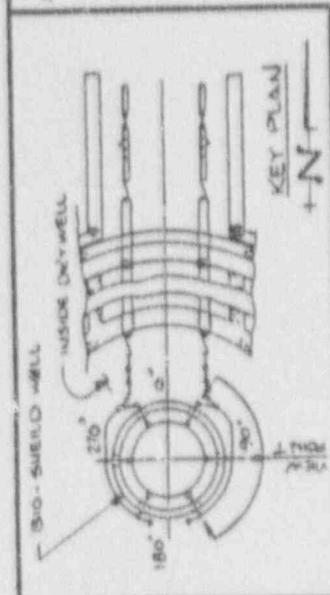
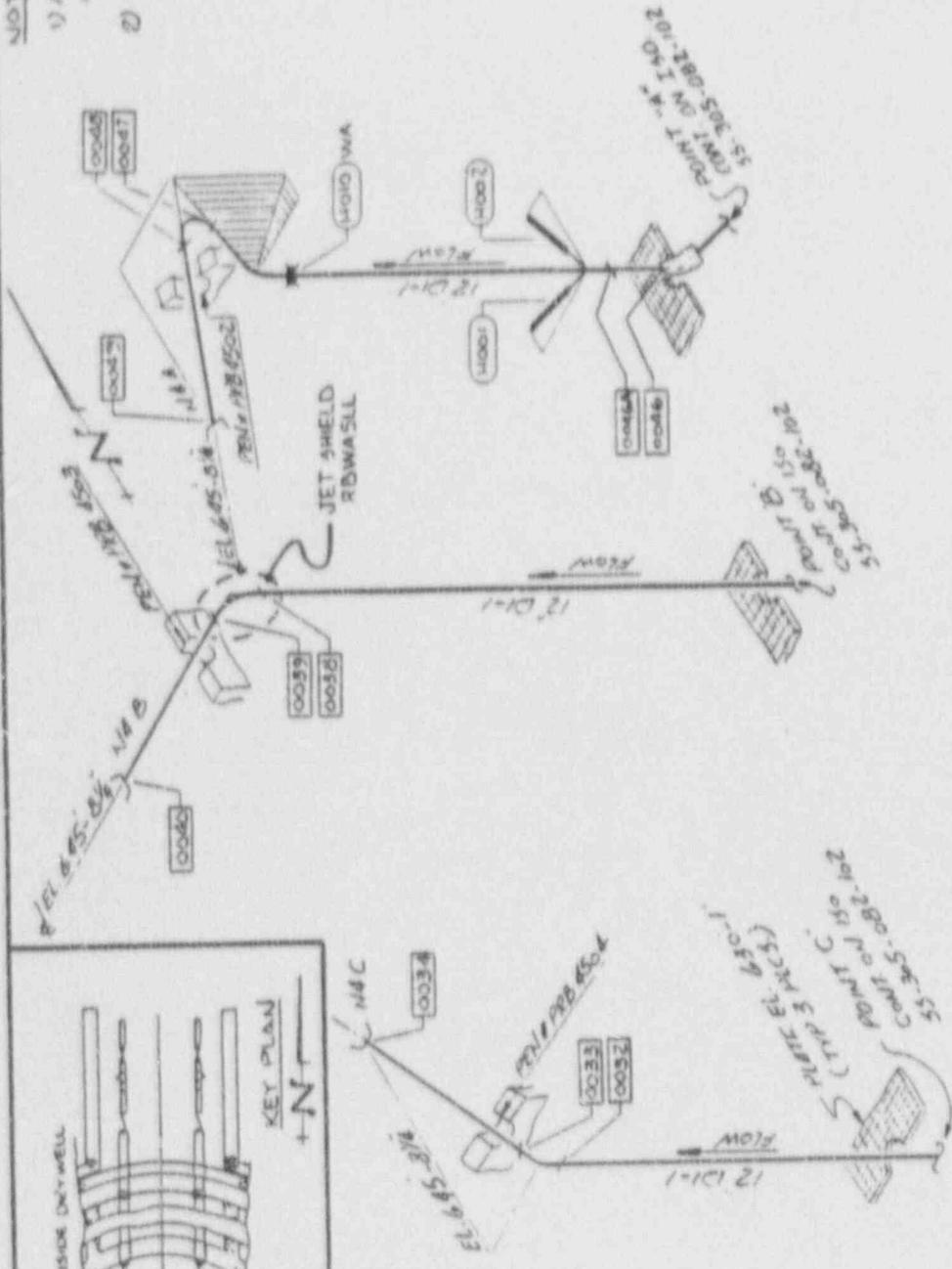
**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS 1
- 2) PSI 07-01 151-N27-001

REF DWG  
D.204-078

NOTES: THIS DRAWING IS FOR THE 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATING/INSTALLATION

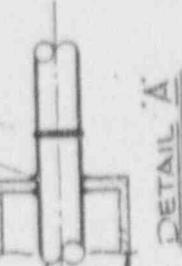
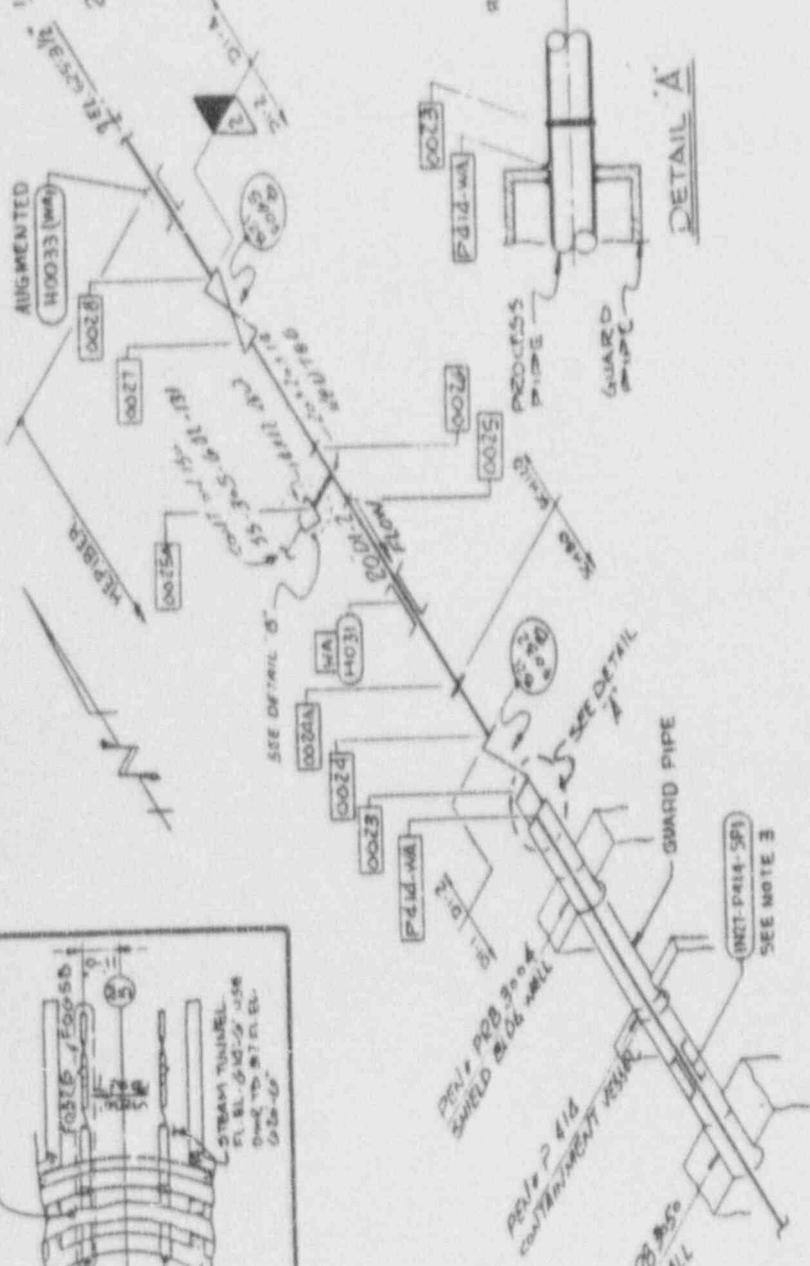
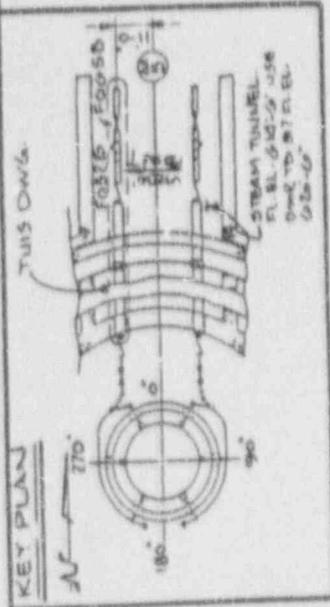
THE DEVLAND ELECTRIC ILLUMINATING COMPANY	
Project No:	151-N27-001
Sheet No:	1
DATE:	5/25/67
BY:	W.A.
CHECKED:	W.A.
APPROVED:	W.A.
PROJECT:	151-N27-001
REV:	0



REVISED TO CURRENT	16	10	6	0
151 PROGRAM	W.A.	H.A.	H.A.	H.A.
STANDARDS/FORMAT	W.A.	H.A.	H.A.	H.A.
PER DCN 3613	W.A.	H.A.	H.A.	H.A.
AND DCN 3630	W.A.	H.A.	H.A.	H.A.

**NOTES:**

- 1) ALL PIPING ON THIS 150 IS CLASS 2
- 2) PSI-07-02  
151-N21-002
- 3) THIS SUPPORT IS INSIDE GUARD PIPE AND THEREFORE IS INACCESSIBLE FOR EXAMINATION.



WATER-TIGHT SEALING IS FOR ISE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRIKATION/INSTALLATION

SEE DWG 8-309-078

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Machine Plant Dept. 1011	
DATE	NOV 19 1950
BY	J. H. M. / M.A.
CHECKED	J. H. M. / M.A.
PROJECT	151-N21-002
REVISION	55-305-082-104

REV	DATE	BY	CHKD
1	11/19/50	J.H.M.	M.A.
2	11/19/50	J.H.M.	M.A.
3	11/19/50	J.H.M.	M.A.

REVISED TO CURRENT ISE PROGRAM STANDARDS/FORMAT PER DCN 8613

55-305-082-105  
CONT ON 150

PIPE P 208 300 4 SHIELD BLDG WALL  
PIPE P 414 CONTAINMENT RISER  
PIPE P 208 300 4 ORPHEUS HALL

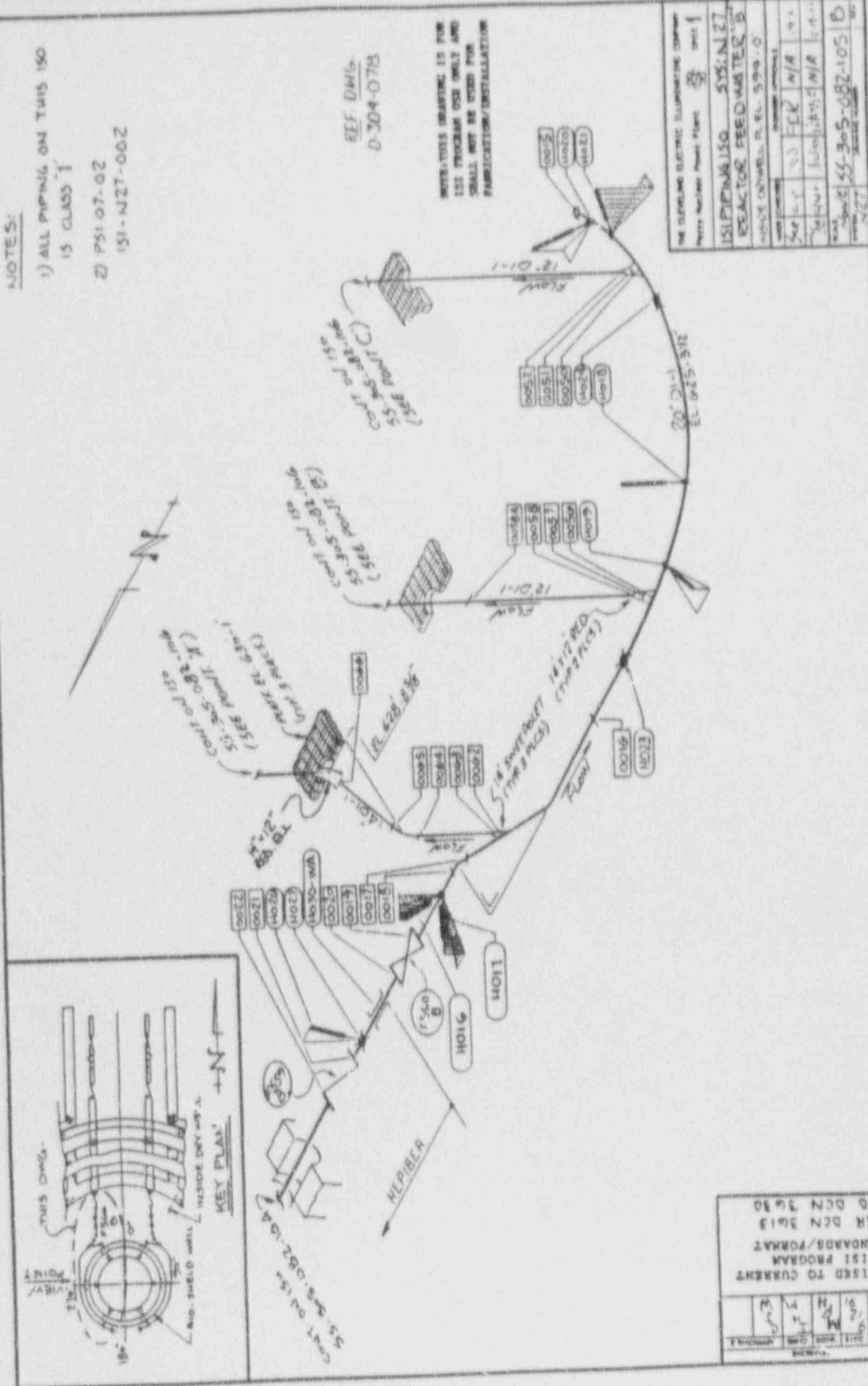
NOTES:

- 1) ALL PIPING ON THIS ISO IS CLASS "1"
- 2) PSI 07-02  
151-N2T-00Z

REF DWG.  
D-204-075

INSTRUMENTS ORDERING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		Sheet 1
151-P15A ISO SYS: N127		
REACTOR FEED WATER 'B'		
UNION COUNTY, OH. EL. 599-0		
DATE	BY	CHK
10/1/68	J. W. H.	N/A
DATE	BY	CHK
10/1/68	J. W. H.	N/A
DATE	BY	CHK
10/1/68	J. W. H.	N/A
DATE	BY	CHK
10/1/68	J. W. H.	N/A



REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3613 AND DCN 3630												
<table border="1"> <tr> <td>DCN</td> <td>DATE</td> <td>BY</td> <td>CHK</td> </tr> <tr> <td>3613</td> <td>10/1/68</td> <td>J. W. H.</td> <td>N/A</td> </tr> <tr> <td>3630</td> <td>10/1/68</td> <td>J. W. H.</td> <td>N/A</td> </tr> </table>	DCN	DATE	BY	CHK	3613	10/1/68	J. W. H.	N/A	3630	10/1/68	J. W. H.	N/A
DCN	DATE	BY	CHK									
3613	10/1/68	J. W. H.	N/A									
3630	10/1/68	J. W. H.	N/A									

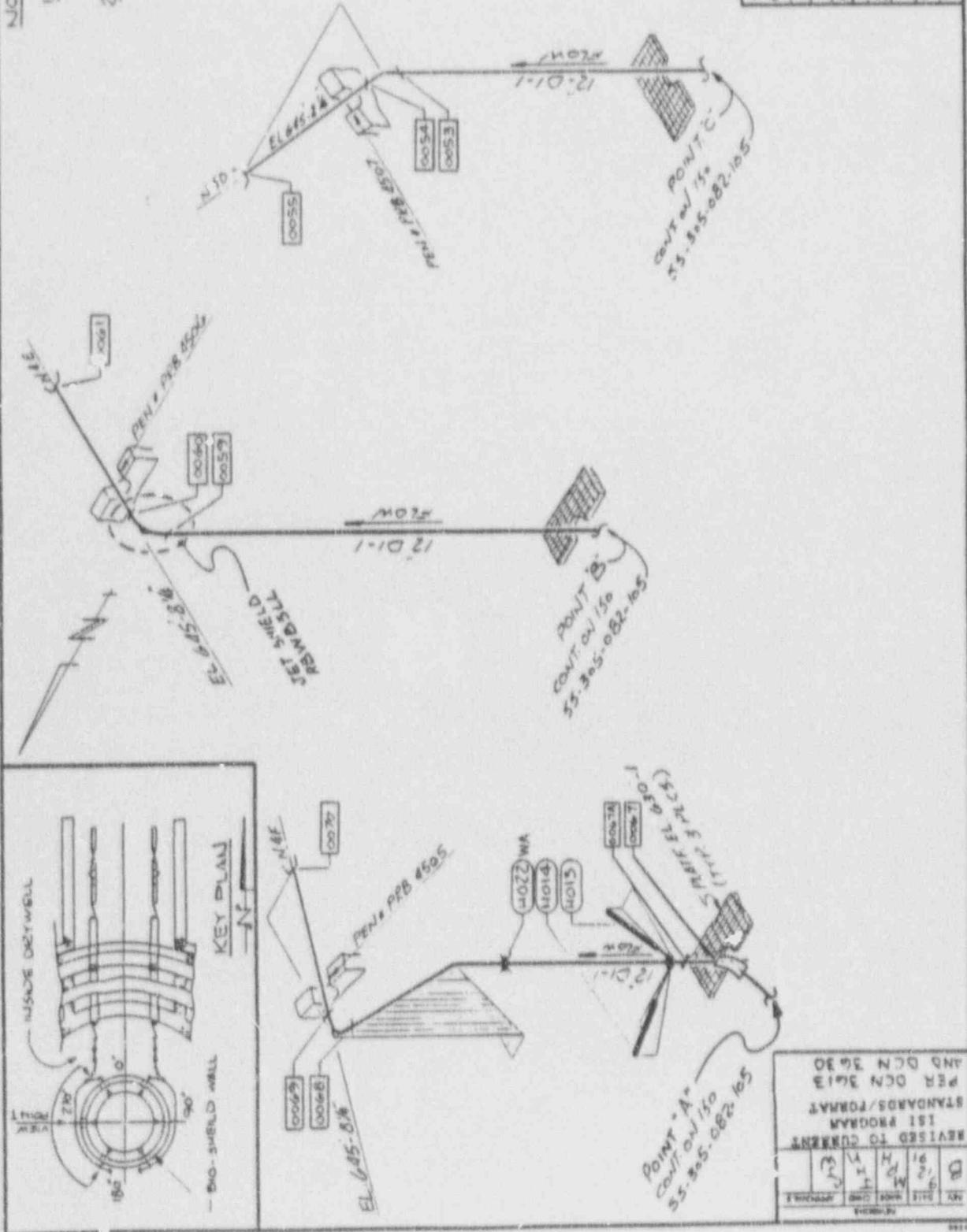
**NOTES:**

- 1) ALL PIPING ON THIS ISG IS CLASS 1
- 2) PSI 07-02  
151-N121-001

EEF-DWG-  
D-204-D7B

NOTES: THIS DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SMALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No. 150	Sheet No. 1
DATE: 11/27/55	BY: J.R. N/A
SCALE: 1" = 10'	PROJECT: 150
NO. OF SHEETS: 1	SHEET NO.: 1
PROJECT TITLE: ISG PIPING	PROJECT NO.: 150
PROJECT LOCATION: 55-305-082-106	PROJECT DATE: 11/27/55



REVISIONS	DATE	BY	APP'D
1	11/27/55	J.R.	
2			
3			
4			
5			

REVISED TO CORRECT  
1ST PROGRAM  
STANDARDS/FORMAT  
PER DCN 3613  
AND DCN 3630

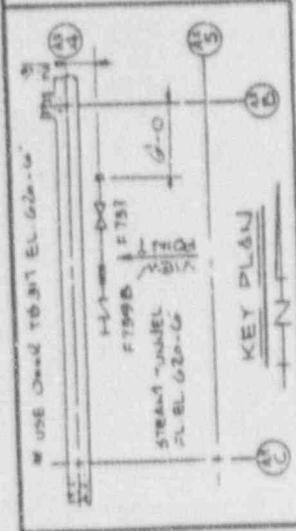
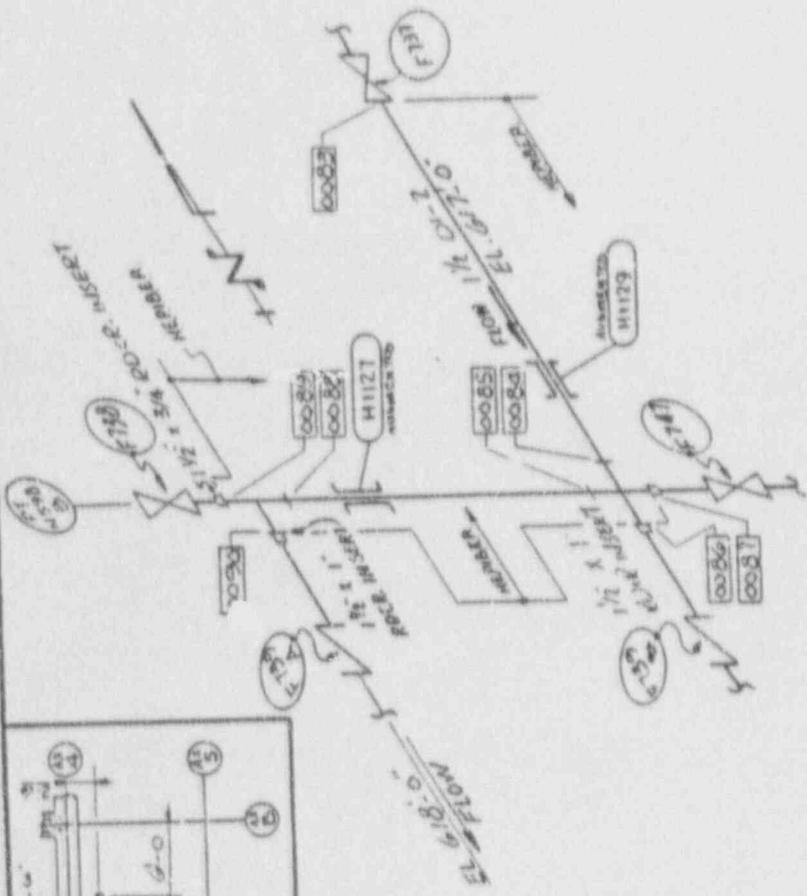
NOTES:

- 1) ALL PIPING ON THIS ISO IS CLASS '2'
- 2) NO PSI DWG. 151-NZT-004

REF DWG. N-304-971

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE DEVELOPING ELECTRIC ILLUMINATING COMPANY	
PARTY NUMBER	PROJECT NUMBER
151-NZT-004	151-NZT-004
DRAWING TITLE: STEAM JACKET FOR EL. 620-6	
DATE	ISSUED
11/18/81	11/18/81
BY	CHKD
W.A.	W.A.
REV	NO.
1	1
DATE PLOTTED: 05-30-91	
SCALE: 1" = 1'-0"	



REV	DATE	BY	CHKD	APPV
1	11/18/81	W.A.	W.A.	

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

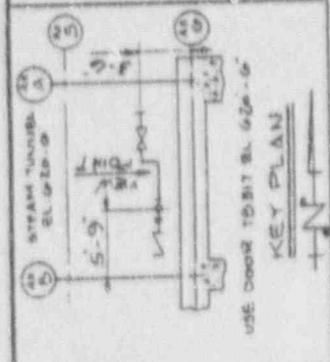
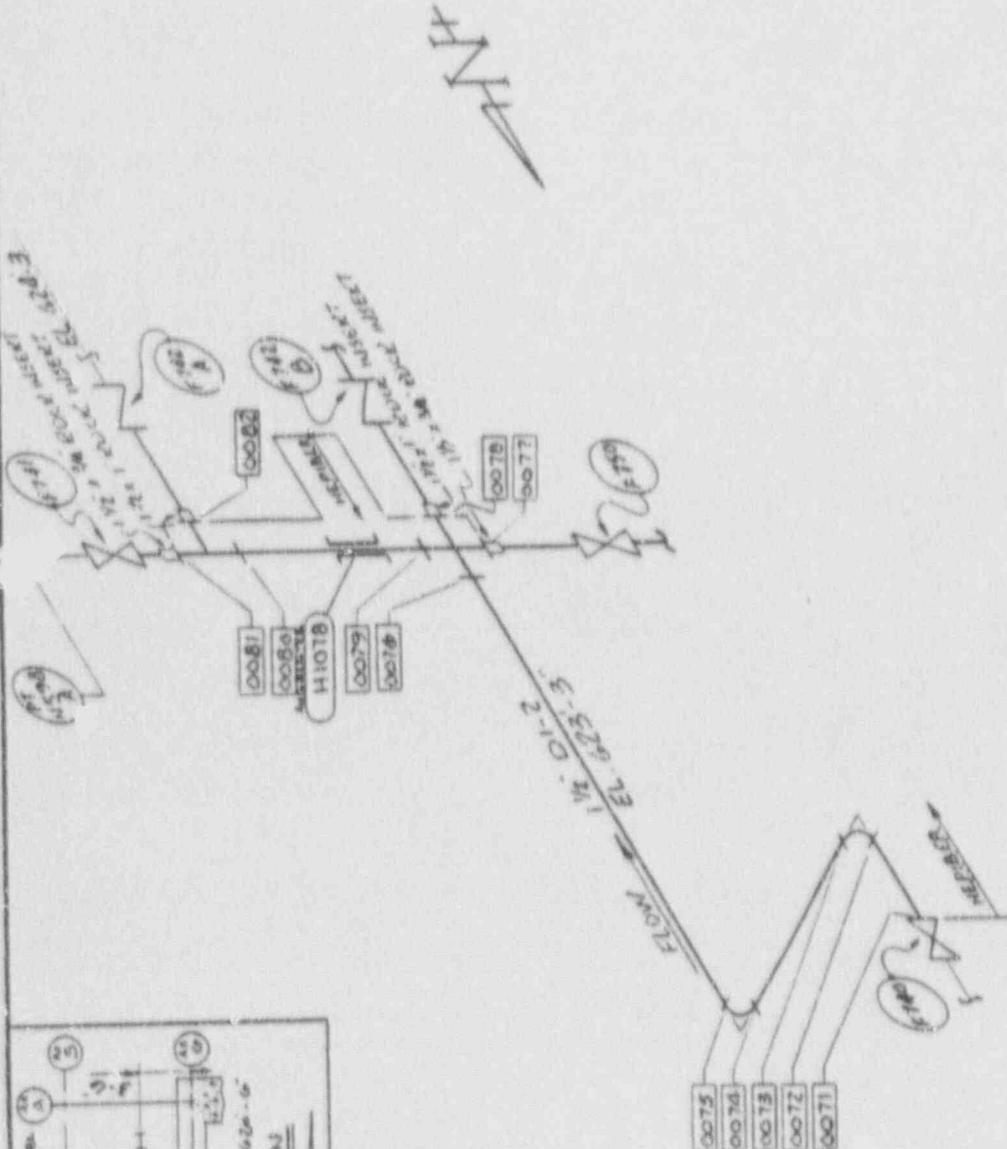
NOTES:

- 1) ALL PIPING ON THIS ISG IS CLASS '2'
- 2) NO PSI DWG. 151-N27-003

REF. DWG.  
D-509-971

INTER-TIE IMBATING IS FOR  
ISSI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

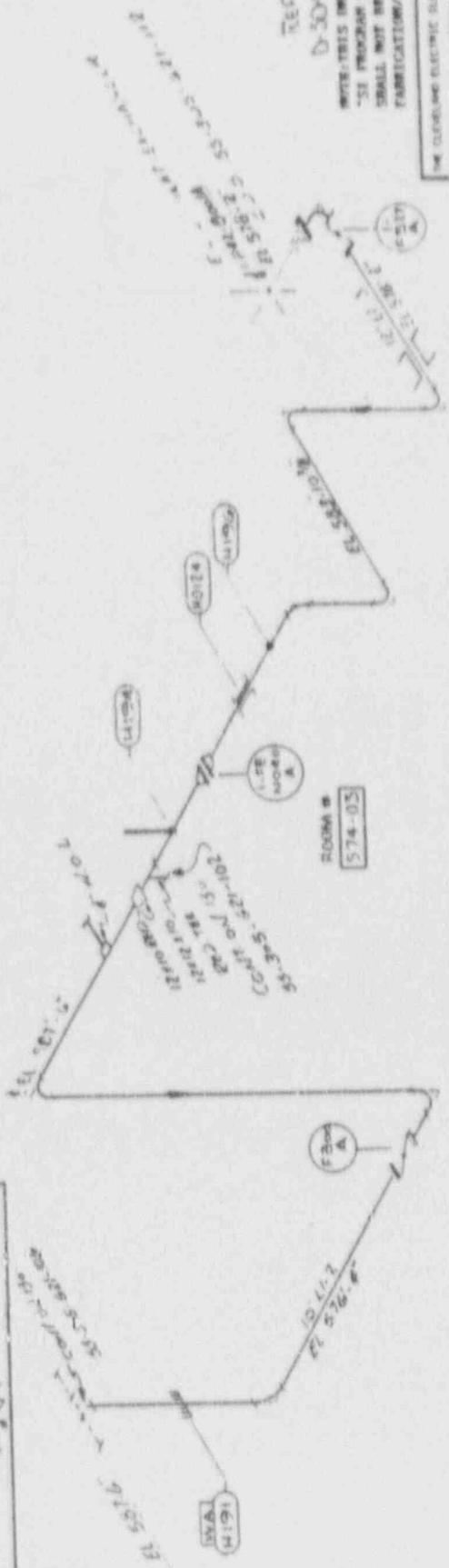
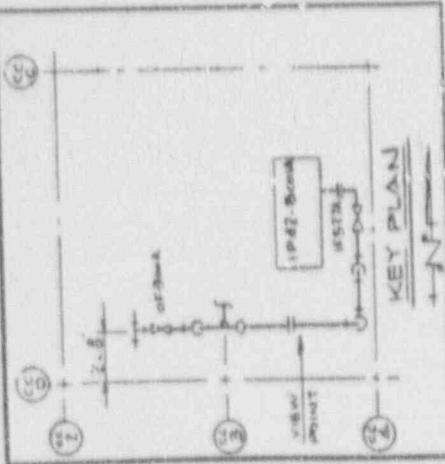
THE FOLLOWING ELECTRIC ILLUSTRATION COMPANY	
Project Name/Sheet No.	151-N27-003
Quantity	5175-N27
Contract No./Revision	55-305-971-102
Drawn by	ELC
Checked by	ELC
Approved by	ELC
Date	11/12/88



REVISED TO CURRENT  
ISSI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

NOTES:

- 1) ALL PIPING OLD THIS 150 IS CLASS 3



REC DWGS  
D-304-621  
NOTES: THIS DRAWING IS FOR  
"SI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
PART NUMBER: 10001  
REV: 1

151 PIPING 150	574-05	17/02
EMERG. L.B. COOL. SW. UNIT 79		
COUNT. CONTROL PANEL	FILE 376.10	
REV	DATE	BY
1	10/11/77	WLB
2	10/11/77	WLB
3	10/11/77	WLB
4	10/11/77	WLB
5	10/11/77	WLB
6	10/11/77	WLB
7	10/11/77	WLB
8	10/11/77	WLB
9	10/11/77	WLB
10	10/11/77	WLB

REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORUM  
PER DCN 3542

NO.	DATE	BY	CHKD	APP'D
1	10/11/77	WLB		
2	10/11/77	WLB		
3	10/11/77	WLB		
4	10/11/77	WLB		
5	10/11/77	WLB		
6	10/11/77	WLB		
7	10/11/77	WLB		
8	10/11/77	WLB		
9	10/11/77	WLB		
10	10/11/77	WLB		

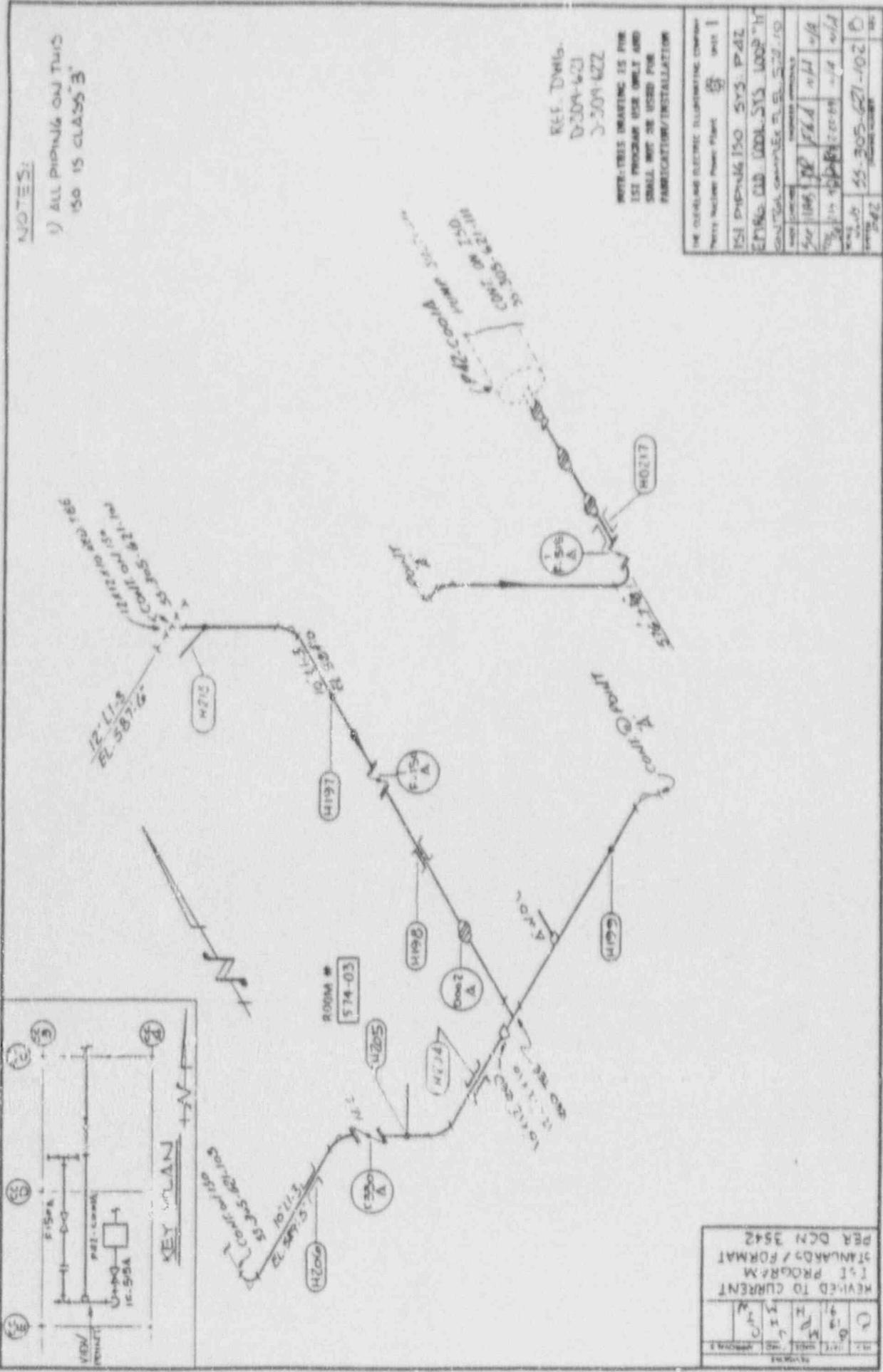
**NOTES:**

1) ALL PIPING ON THIS  
ISO IS CLASS 'B'

REF. DWGS.  
D-309-621  
3-309-622

NOTE: THIS DRAWING IS FOR  
LIST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

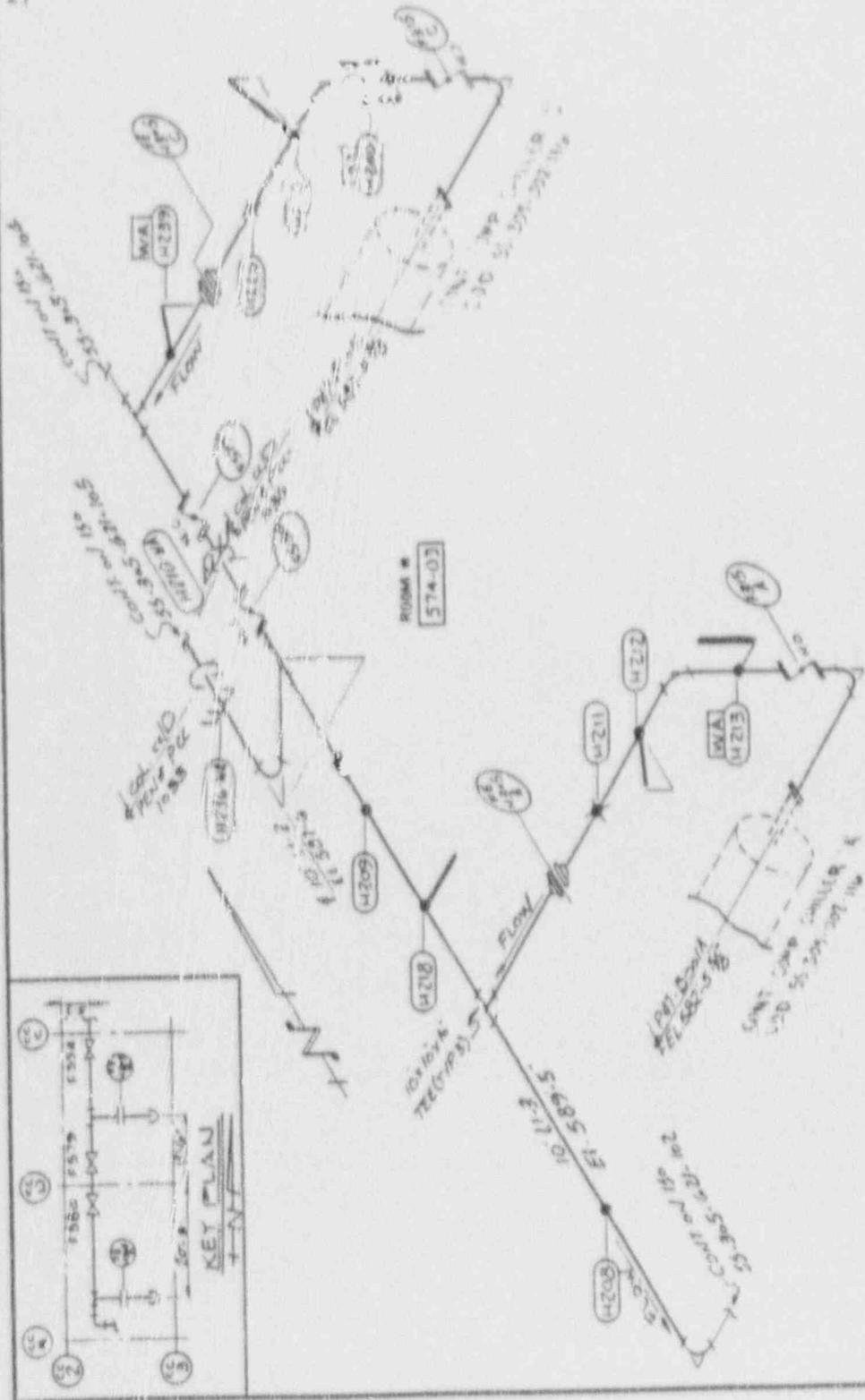
THE OVERLAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
ISO: DPN-16 ISO SYS. P-42	
ENGINE: DIB 0004 SYS 1000 71	
DATE: 11/16/68	SCALE: 1/8"
BY: [Signature]	CHECKED: [Signature]
DATE: 11/16/68	DATE: 11/16/68
NO. 105-621-102	



REVISED TO CURRENT LIST PROGRAM STANDARD / FORMAT PER DCN 3542
DATE: 11/16/68
BY: [Signature]
CHECKED: [Signature]
NO. 105-621-102

**NOTES:**

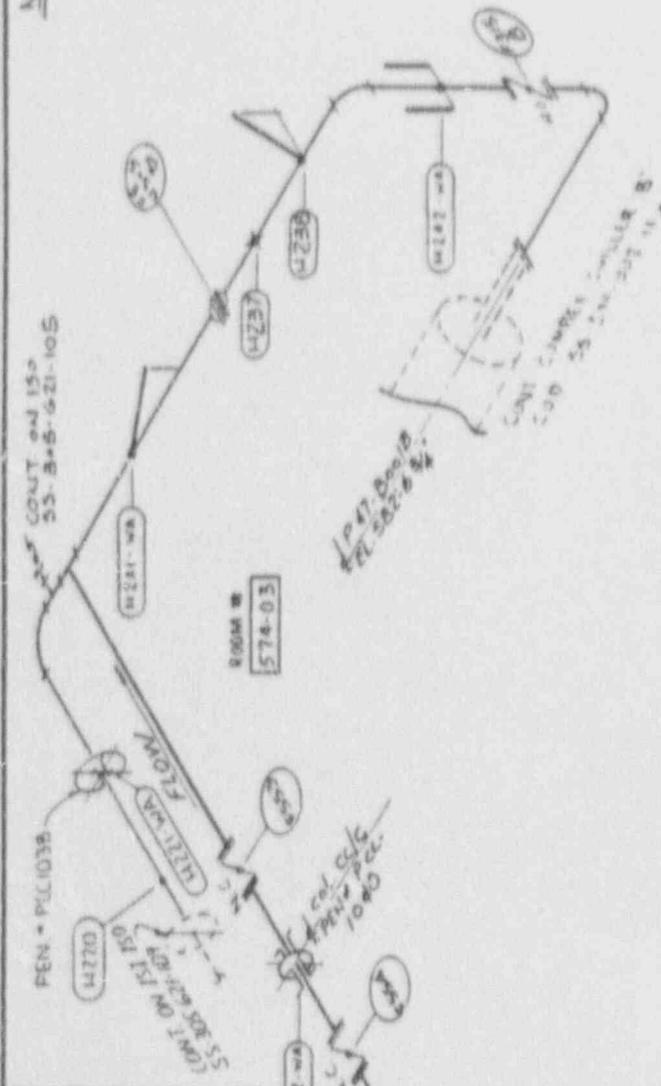
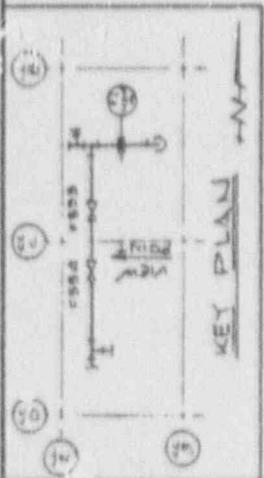
1) ALL PIPING ON THIS IS CLASS 'B'



REV	DATE	BY	CHK	DESCRIPTION
1	11/11/53	W	W	REVISED TO CURRENT I-I PROGRAM STANDARD FORMAT
2				PER DCN 3543

THE CALVERT ELECTRIC ILLUMINATING COMPANY	PROJECT NUMBER	574-03	SHEET	1
151 BROADWAY	DATE	5-25-54		
EMERGENCY COOL. SYS. ROOM	NO. OF SHEETS	100		
AND C. C. P. L. E. L. 574-10	DESIGNED BY	W. J. H. W.		
	CHECKED BY	W. J. H. W.		
	APPROVED BY	W. J. H. W.		
	DATE	5-25-54		
	SCALE	AS SHOWN		

SEE DWG'S  
D-304-622  
NOTES: THIS DRAWING IS FOR  
LIST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
PARTICULARS/INSTALLATION



NOTES:  
 1) ALL PIPING ON THIS  
 150 IS CLASS 3

REF. 2416  
 6-30A-622

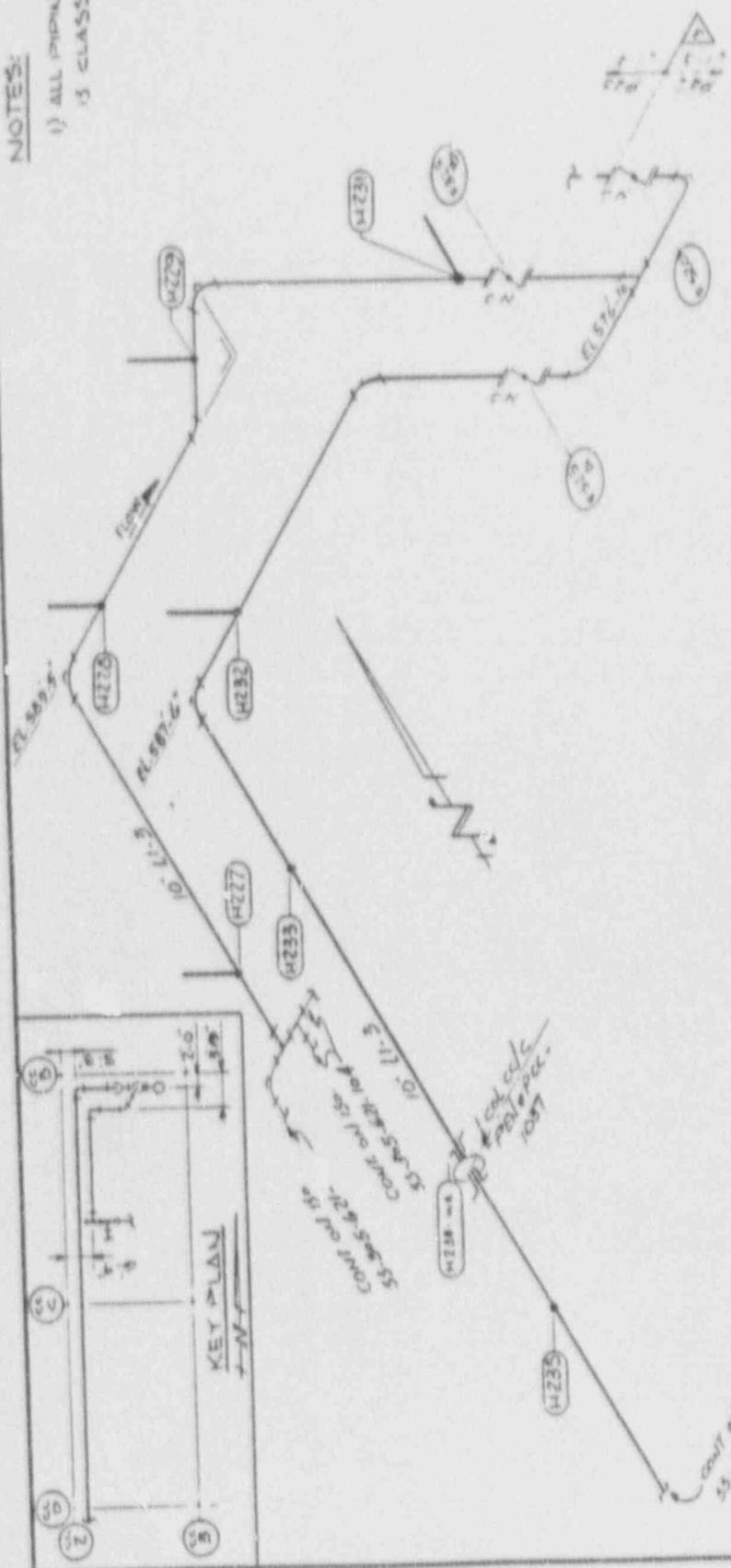
NOTE: THIS DRAWING IS IN  
 THE PROGRAM USE ONLY A  
 SMALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name	Plant 1
Sheet	1
151 PIPING 150 SYS P&I	
EMERGENCY QUB. QUB. S13 UDOP'B	
AND - C	PL. BL. 528.10
DATE	11/11/89
DESIGNED BY	J.P.
CHECKED BY	J.P.
APPROVED BY	J.P.
DATE	11/11/89
REVISED TO CURRENT	
PER DCN 3542	
STANDARDS/FORMAT	
151 PROGRAM	
REVISED TO CURRENT	

**NOTES:**

- 1) ALL PIPING ON THIS ISO IS CLASS 3

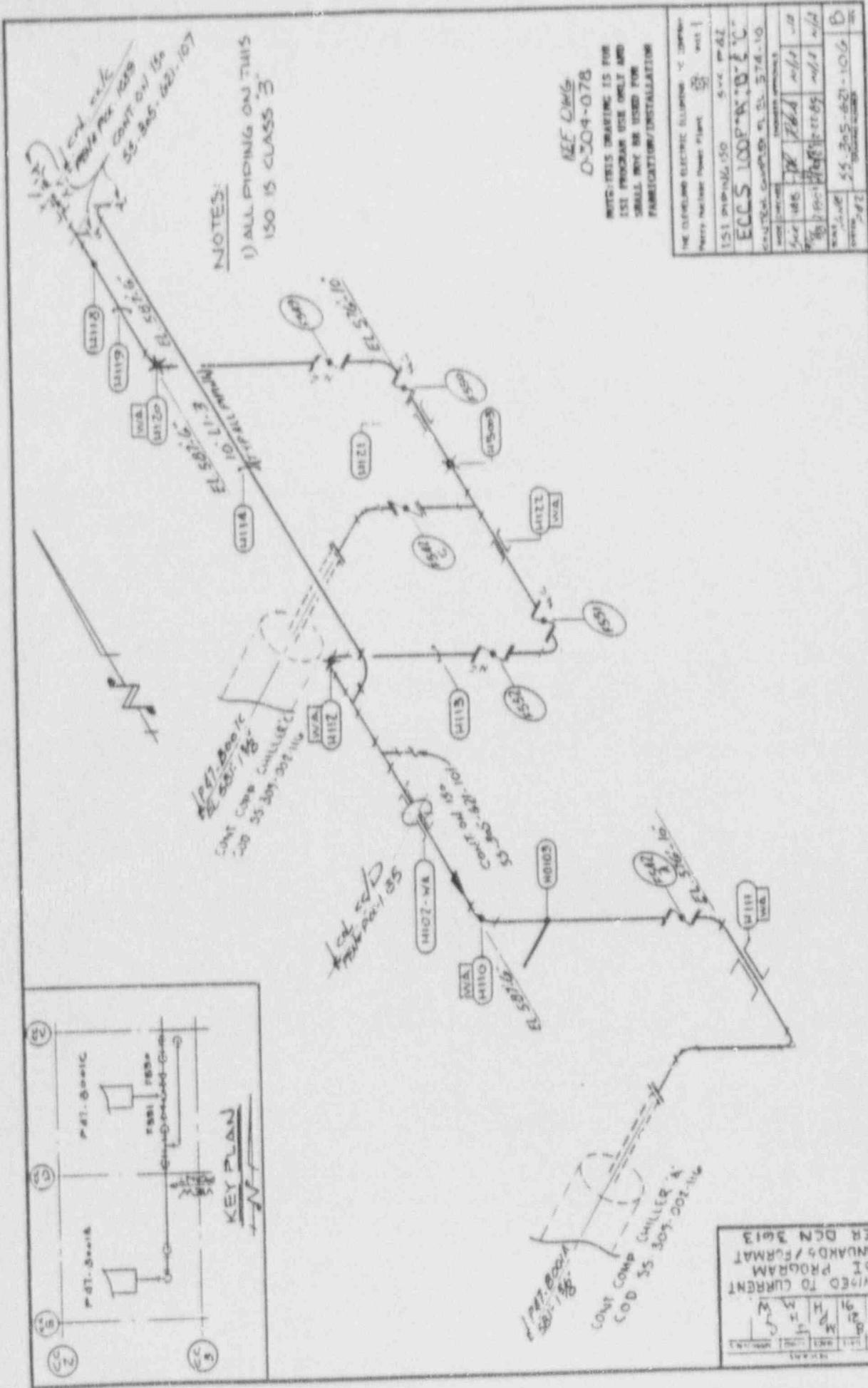
See 5465  
2-20-62



NOTE: THIS DRAWING IS FOR  
ISO PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

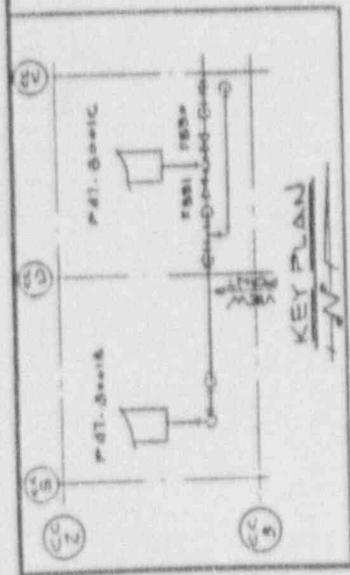
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	55-305-62
Sheet	1
ISO Program	ISO
SWR	57.5 P. 62
EMERGENCY	CLD ISO/SYS WOP'R
1" = 1'	CONTR. LAMP
DATE	F.B.L. 57.6.10
BY	DK
CHK	FLA
APP	6/14
DATE	5-12-61
BY	ala
CHK	ala
DATE	55-305-62-105
BY	D

REV	DATE	BY	CHK	APP	DESCRIPTION
D	5/18/61	DK	FLA		REVISED TO CURRENT ISO PROGRAM / FORMAT PER DCN 3542



NOTES:

1) ALL PIPING ON THIS IS CLASS 3"



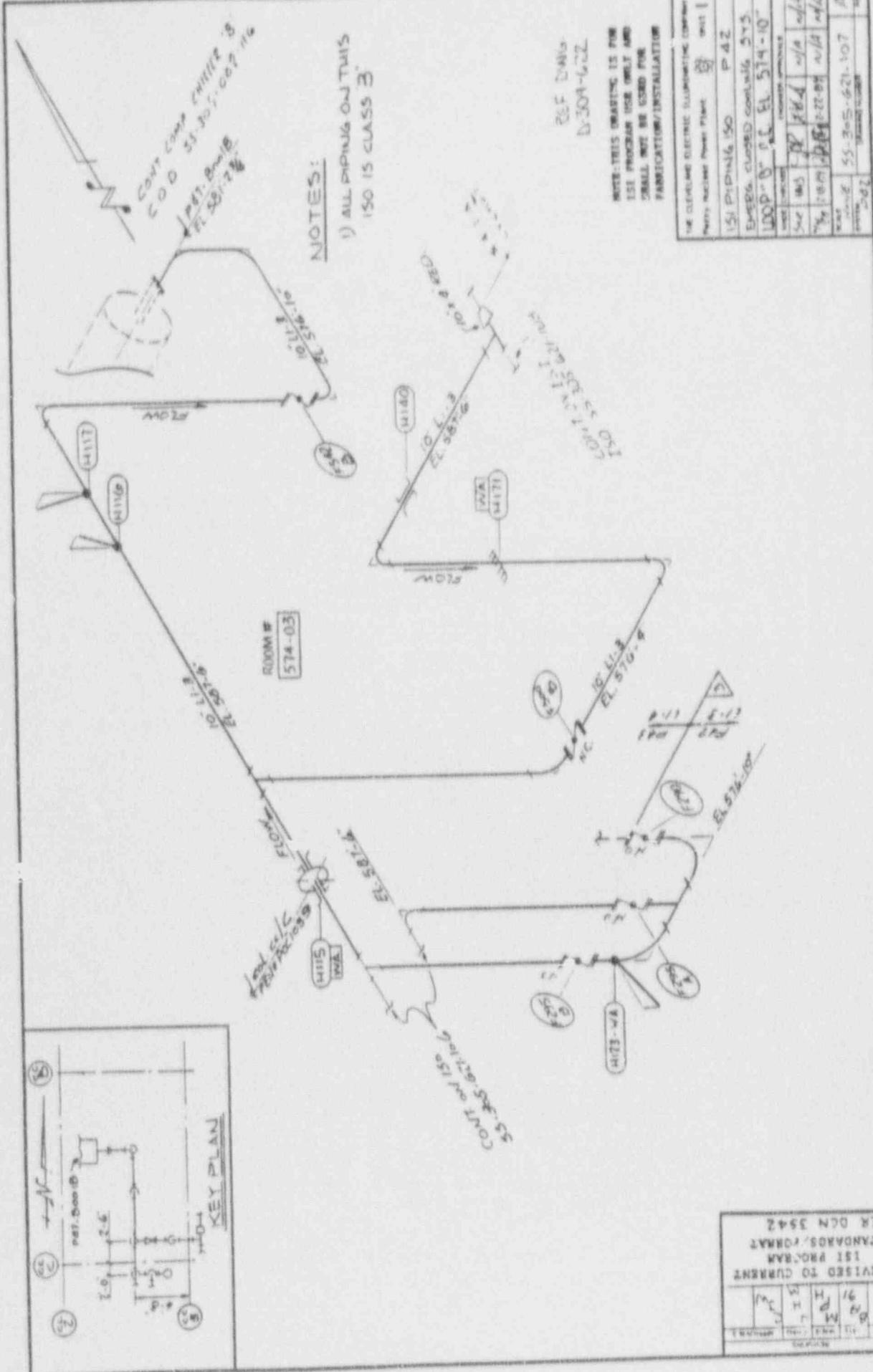
KEY PLAN

SEE DWG  
D-204-078

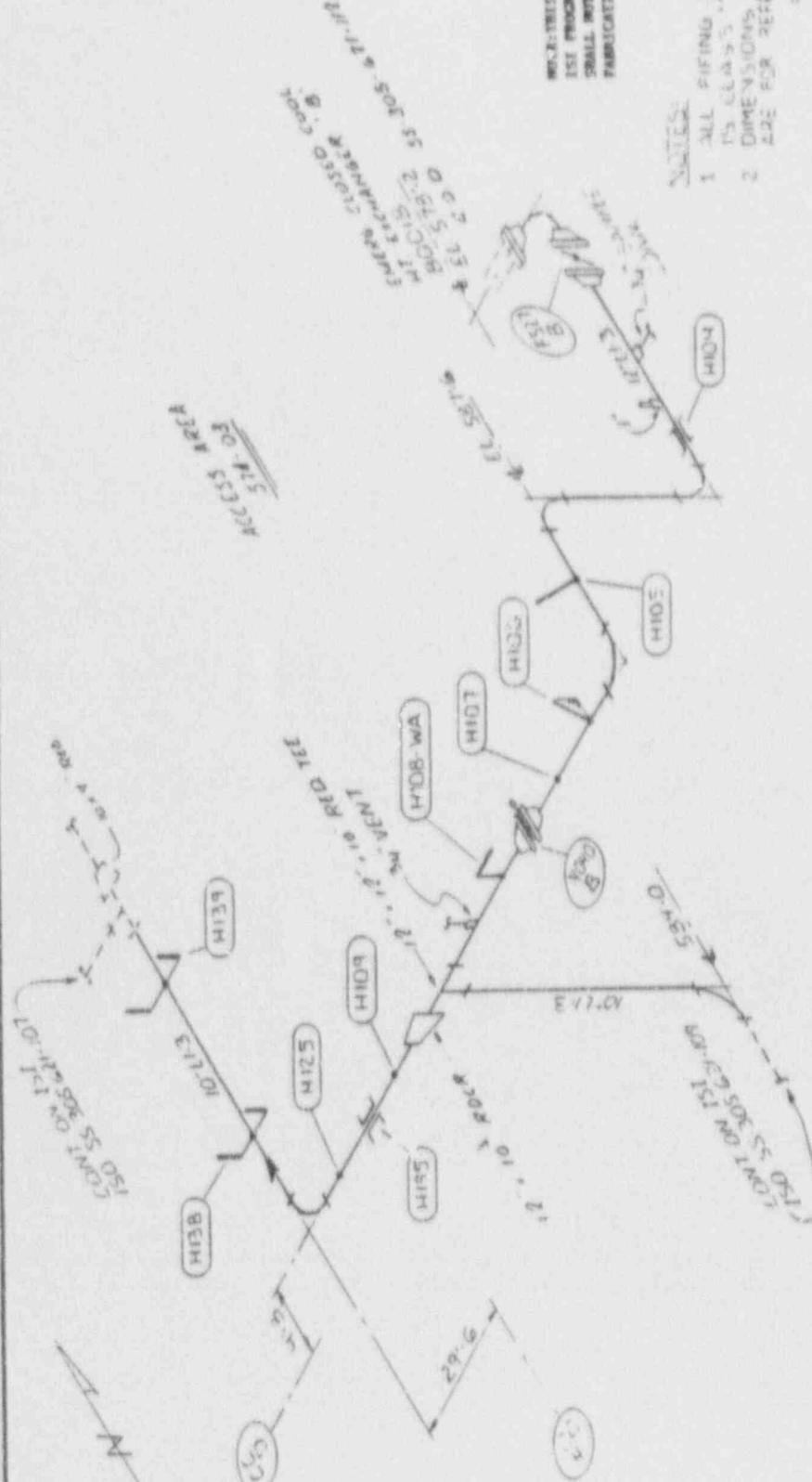
NOTES: THIS DRAWING IS FOR  
ECCS LOOP W/ 150-150  
PROGRAM. THIS DRAWING AND  
SMALL WIRE IS USED FOR  
FABRICATION/INSTALLATION

THE DEVELOPER ELECTRIC ENGINEERING COMPANY		DATE	10/10/6
Project Number	Plant	Sheet	D
151 010-020-50	500	5	
ECCS LOOP W/ 150-150			
GENERAL COMMENTS: N.B. 574-10			
REV	BY	CHKD	DATE
1	SK	MS	10/10/6
2	MS	MS	10/10/6
3	MS	MS	10/10/6

REVISED TO CURRENT IET PROGRAM STANDARD FORMAT PER DCN 5613	
NO.	DATE
1	10/10/6
2	10/10/6
3	10/10/6



REVISED TO CURRENT	1	A
151 PROGRAM	2	M
STANDARDS FORMAT	3	H
PER DCN 3542	4	L
	5	S
	6	E



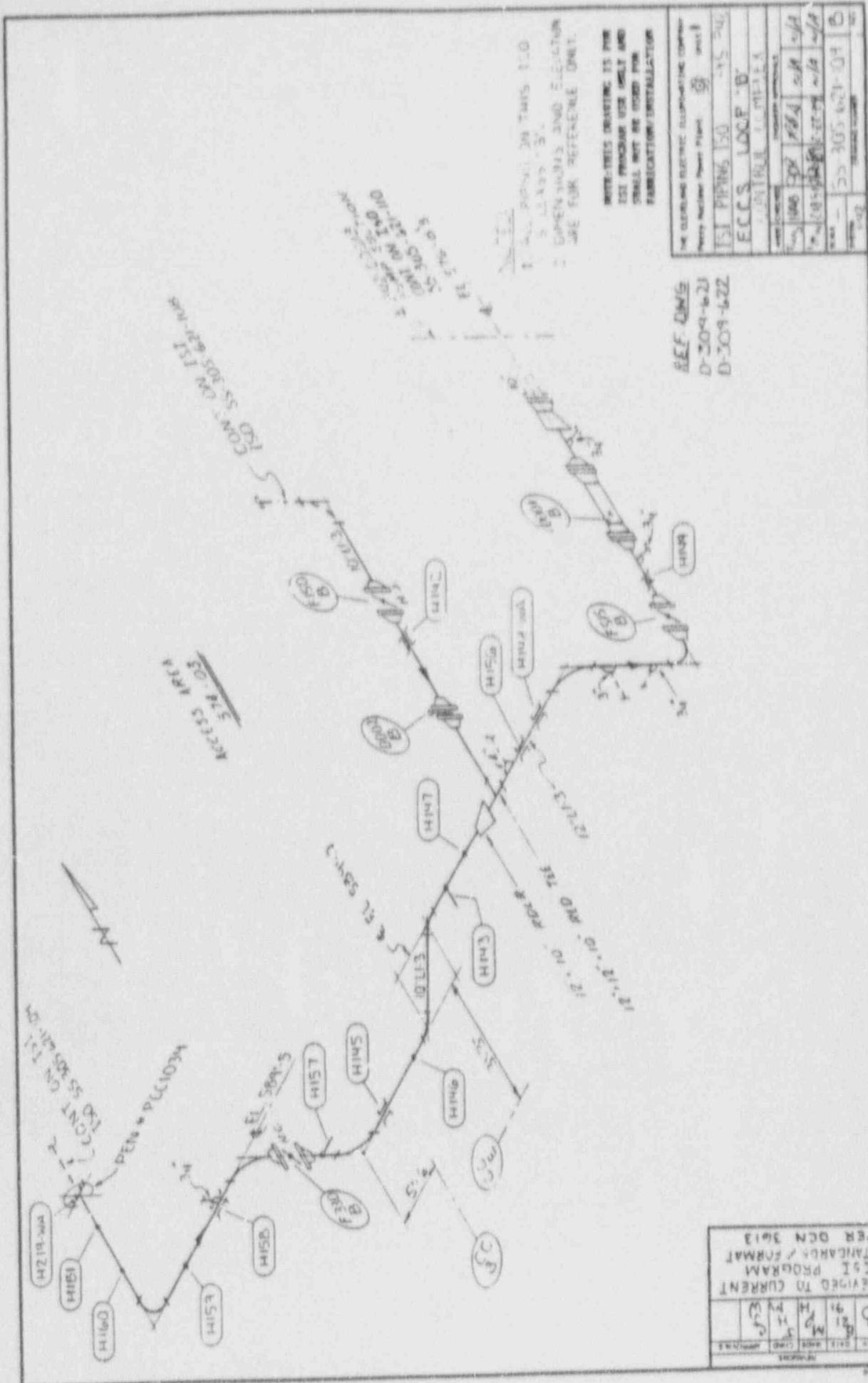
NOTES:  
 1 ALL PIPING ON THIS ISD IS CLASS 'B'.  
 2 DIMENSIONS AND ELEVATION ARE FOR REFERENCE ONLY.

THE OLING ELECTRIC ILLUSTRATING COMPANY  
 Project Number: **35-305-421-108** Sheet: **1**

DATE: **1/16/50** BY: **SSJ** CHECKED: **JHD**  
 PROJECT: **EMERGENCY LIGHTING SYS** DRAWING: **108**  
 SCALE: **AS SHOWN** PROJECT NO.: **35-305-421-108**  
 SHEET NO.: **1**

REVISED TO CURRENT ISL PROGRAM STANDARDS/FORAM PER DCN 3942

REV	BY	DATE
1	JHD	1/16/50



ALL PIPING IN THIS I.D.  
 SHALL BE 3".  
 DIMENSIONS AND ELEVATION  
 ARE FOR REFERENCE ONLY.

INTER-TRIS DRIVING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

PROJECT NO.	151 PIPING 150
DATE	11-15-74
DESIGNER	E.C.S. LOOP 'D'
CHECKED	[Signature]
APPROVED	[Signature]
SCALE	AS SHOWN
DATE	11-15-74
PROJECT NO.	151 PIPING 150

SEE DIMS  
 D-309-6-21  
 D-309-6-22

REVISED TO CURRENT STANDARD / FORMAT PER DCN 3613	Q	16	11	5
	M	11	5	5
	H	11	5	5
	S	11	5	5

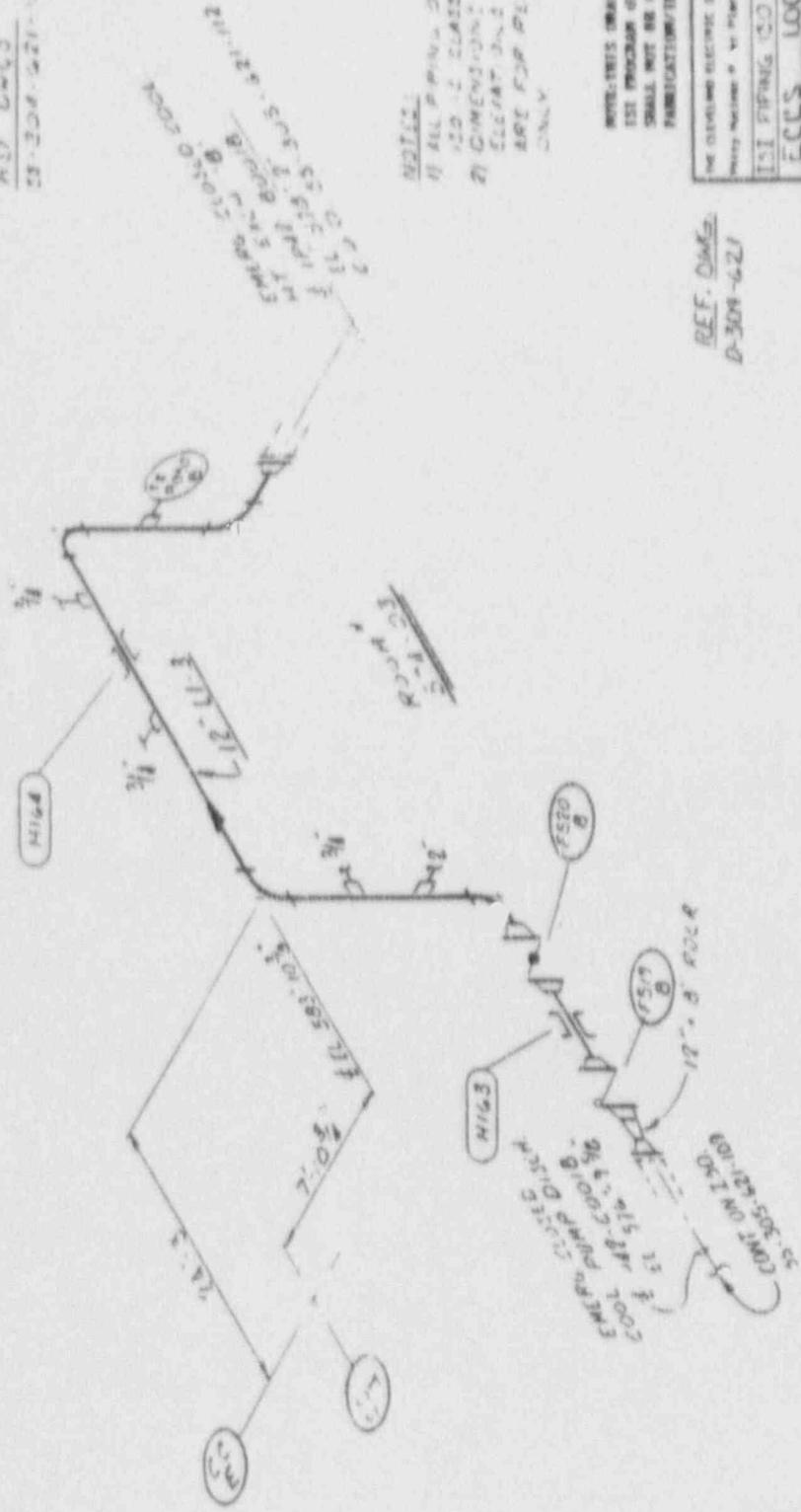
REF DWG 3  
D-308-621-07

NOTES:  
1) ALL PIPING ON THIS  
2) TO 12 CLASS 2  
3) DIMENSIONS AND  
CLEARANCE SHOWN  
ARE FOR REFERENCE  
ONLY

REVISIONS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
INSTALLATION/OPERATION

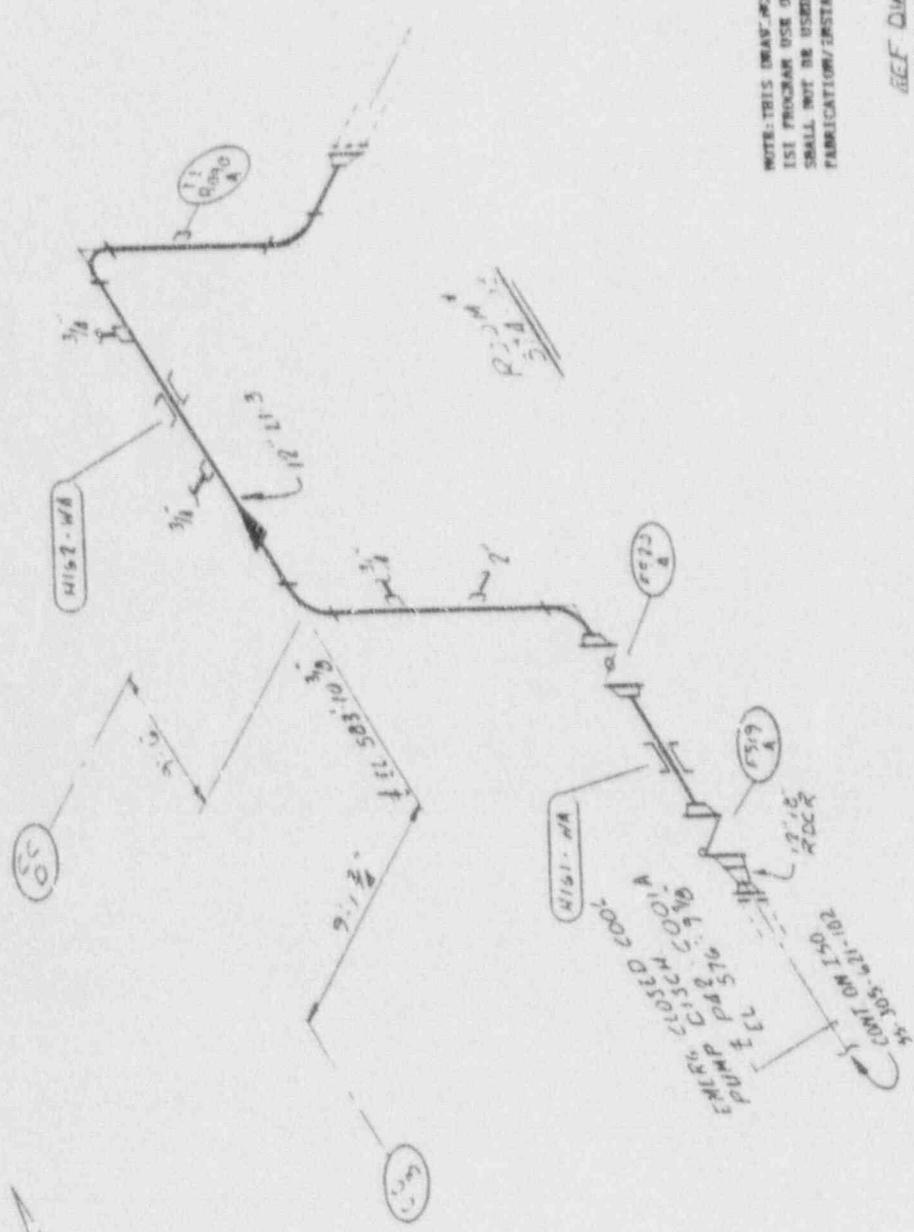
THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
Project No.	ISI-100-100-100
Sheet No.	1
ISI PIPING ISO 245 P&I	
ECLS LOOP 'B'	
DATE	12-11-60
BY	J.P.
CHECKED	J.P.
APPROVED	J.P.
SCALE	AS SHOWN
PROJECT	ISI-100-100-100
DATE	12-11-60
BY	J.P.
CHECKED	J.P.
APPROVED	J.P.

REF. DWG 2  
D-308-621



REVISIONS	NO.	DATE	BY	CHKD
1	1	12-11-60	J.P.	J.P.

REVISSED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PREP DGN 3013



1. ALL PIPING ON THIS  
 DRAWING IS TO BE  
 INSTALLED IN ACCORDANCE  
 WITH THE 1999 ASHRAE  
 90.1-2001 CODE

REF. DRAWING  
 00-204-621-102

**NOTES:**  
 1) ALL PIPING ON THIS  
 DRAWING IS TO BE  
 INSTALLED IN ACCORDANCE  
 WITH THE 1999 ASHRAE  
 90.1-2001 CODE  
 2) DIMENSIONS AND  
 ELEVATIONS SHOWN  
 ARE FOR REFERENCE  
 ONLY

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF. DRAWING  
 0-204-621

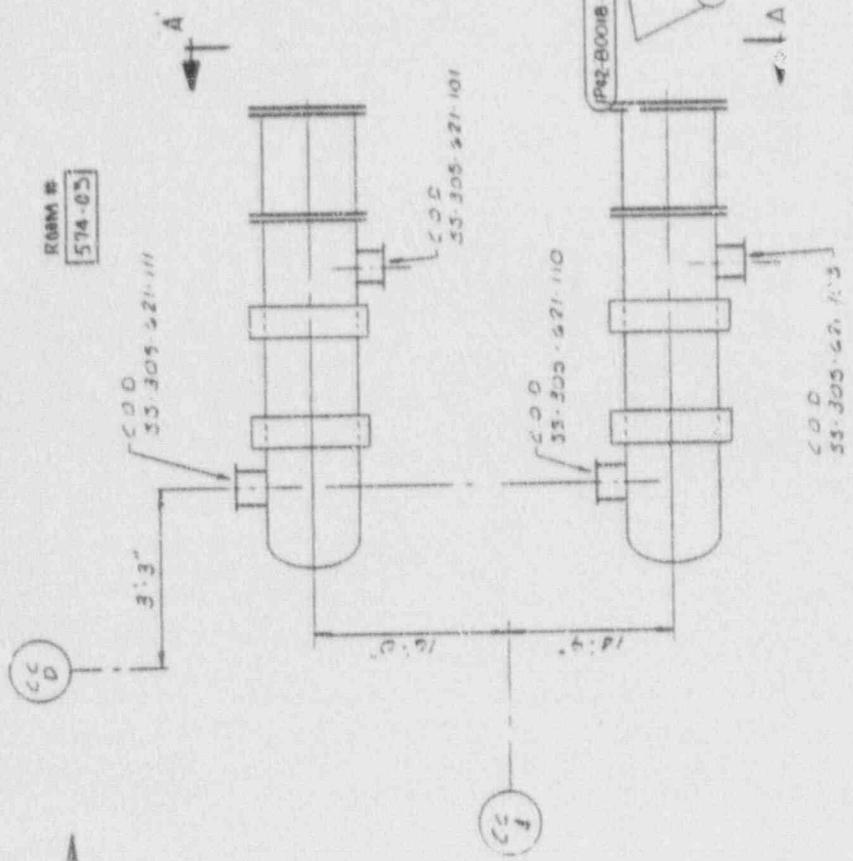
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name	00-204-621-102
Sheet No.	1
Scale	AS SHOWN
Date	05/11/00
Drawn By	WJ
Checked By	WJ
Project No.	00-204-621-102
Sheet Title	00-204-621-102
Sheet No.	1
Project Name	00-204-621-102

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3613
D 02 16 M H S R
DATE
BY
CHKD BY
APP'D BY

REF DWGS:  
 C-304-021  
 8-89-27-006-1-5

NOTES:

- 1) EQUIPMENT SHOWN ON THIS DWG. IS CLASS 'B'
- 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY



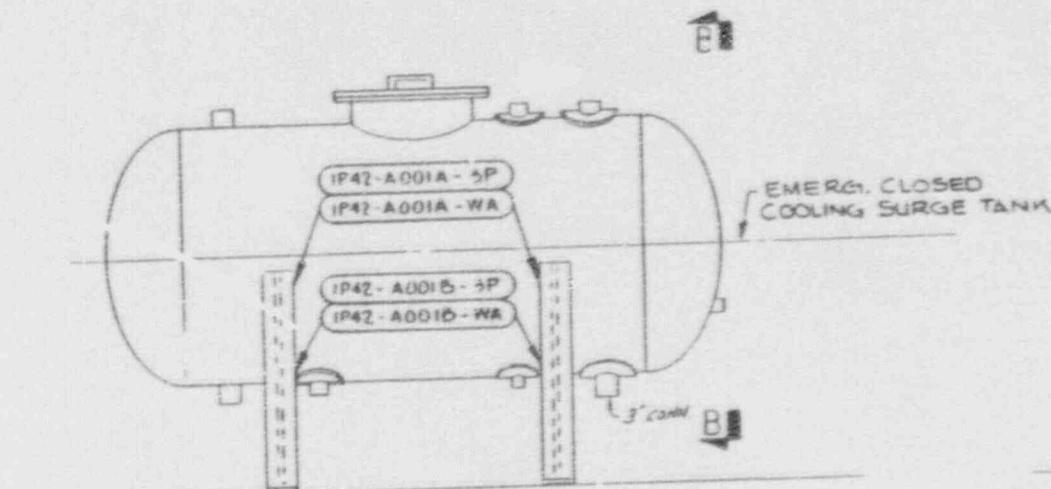
PLAN VIEW

NOTES: THIS DRAWING IS FOR  
 ISE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

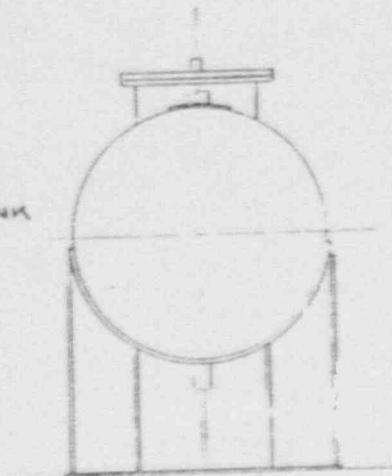
THE CLEARING AND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Sheet: 1
121 CETA - Dwg. No. 575 P42	
Client: L&G	WT. 575-10
Scale: 1/4" = 1'-0"	
Drawn: [Signature]	Checked: [Signature]
Approved: [Signature]	Reviewed: [Signature]
Date: 11-11-89	Scale: 1/4" = 1'-0"

REVISED TO CURRENT	DATE	BY
151 PROGRAM	11/11/89	ML
STANDARDS/FORMAT	11/11/89	ML
PER DCN 3542	11/11/89	ML

2-371

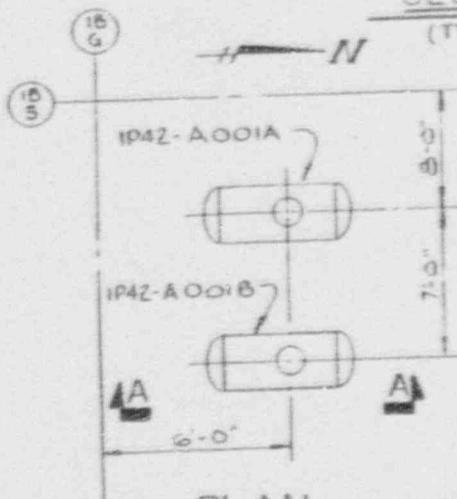


SECTION "A-A"



SECTION B-B  
(TYP. 2 PLACES)

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION



PLAN FL. EL. 634'-6"

NOTES:

1. ALL COMPONENTS ON THIS DWG. IS CLASS "B"
2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG. 4549-31-219-4

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Perry Nuclear Power Plant UNIT 1			
ISI PIPING DWG. SYS. P42			
EMERG. CLOSED COOL. SYS.			
LODP-A-C-B I.B. EL. 634'-6"			
DESIGNER APPROVALS			
DATE	CHECKED	DESIGNED	APPROVED
10/10/68	WAB	WAB	WAB
10/10/68	WAB	WAB	WAB
DATE	NO. ONE	SS-305-621-113	0
DWG. NO.	ISSUE NUMBER		REV.
P42			

DATE	BY	REVISION
10/10/68	WAB	1
10/10/68	WAB	2
10/10/68	WAB	3
10/10/68	WAB	4
10/10/68	WAB	5
10/10/68	WAB	6
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10/10/68	WAB	28
10/10/68	WAB	29
10/10/68	WAB	30

245E NCG PER  
STANDARDS/FORMAT  
PROGRAM ISI  
REVISIONS OF DESIGNER

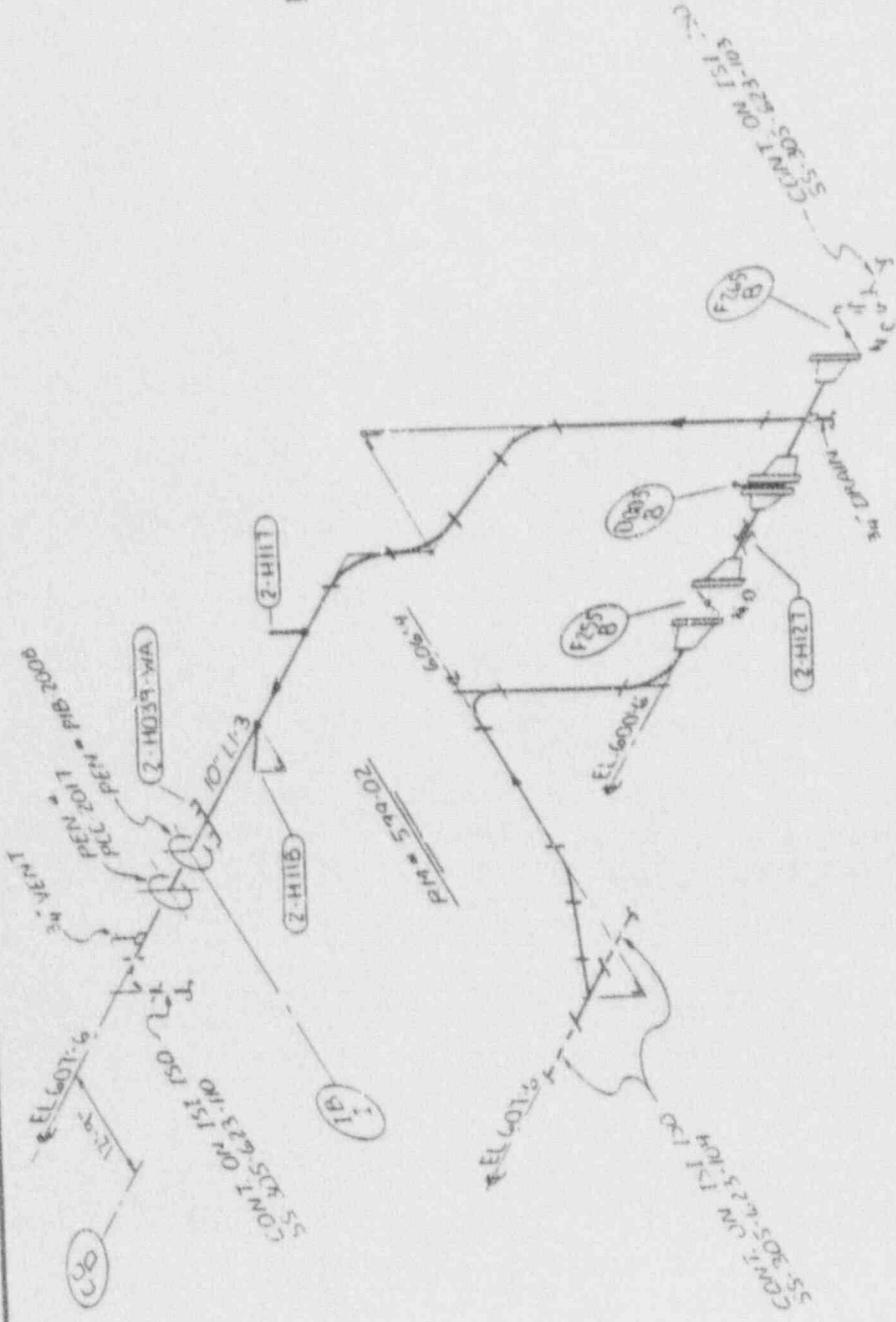
Rev. 1

NOTES:  
 1. ALL PIPING ON THIS 150 IS CLASS '3'.  
 2. ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

REF DWG  
 D-30A-625

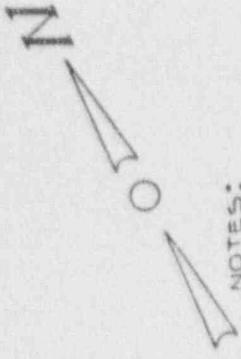
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATOR/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-625
DATE	08/14/42
ISI PIPING 150. SYS. P42	
EQUIP. LOOP 'B'	
INTERM. BLDG	
NO.	REVISED
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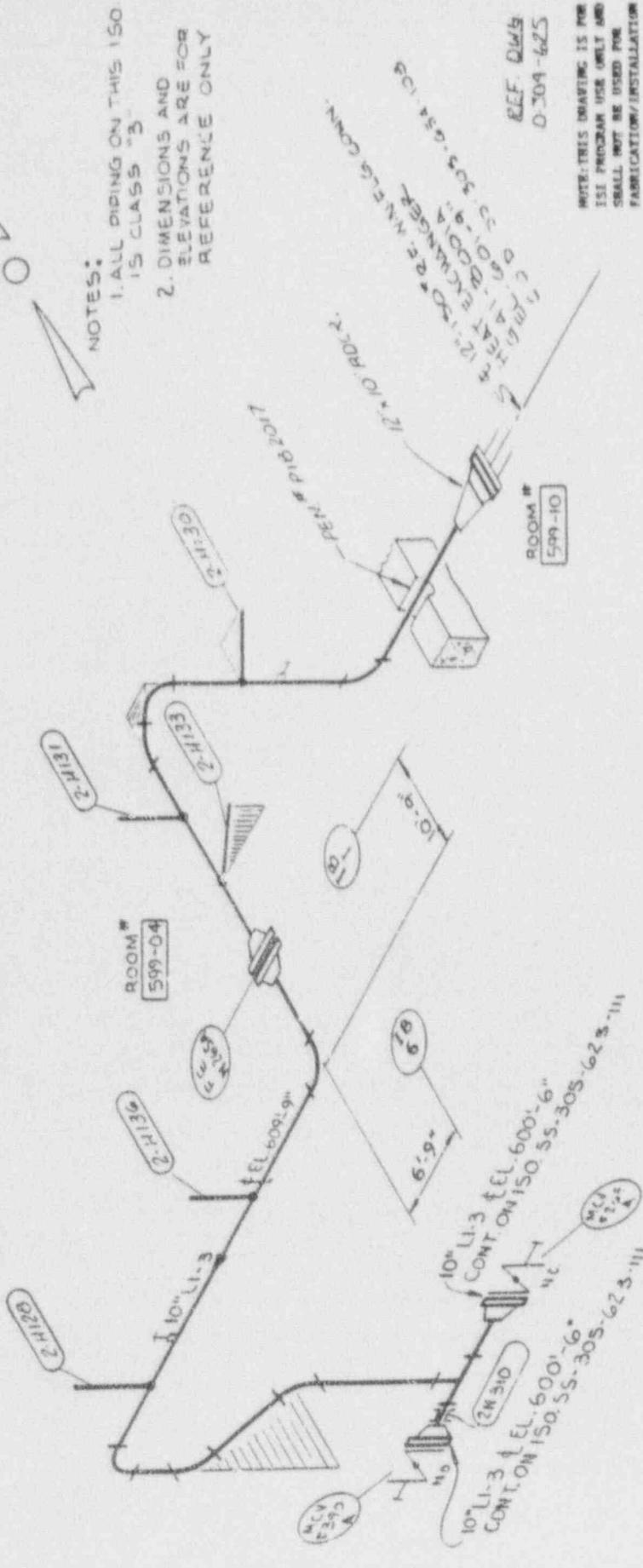


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REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3613



NOTES:  
 1. ALL PIPING ON THIS 150 IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

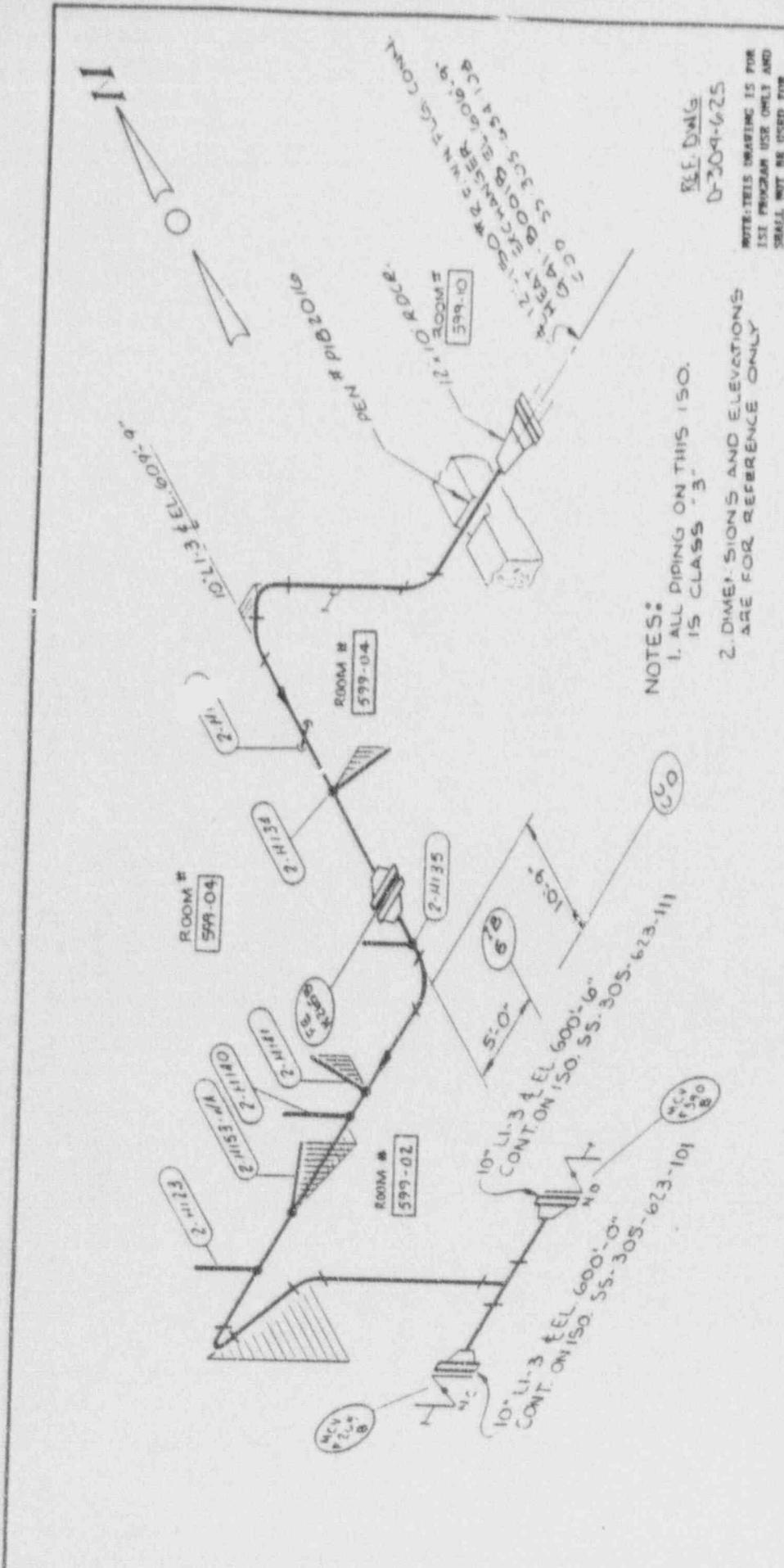


REF. DWG'S  
 0-304-625

NOTE: THIS DRAWING IS FOR  
 IS1 PROGRAM USE (WELD AND  
 SMALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY Peery Nuclear Power Plant 33 0113142			
IS1 PIPING 150 SY'S. P42			
EIP'S LOOP 'N'			
B. EL. 599.0'			
DATE	DESIGNED	CHECKED	APPROVED
12/19/72	12/19/72	12/19/72	12/19/72
12/19/72	12/19/72	12/19/72	12/19/72
55-305-623-102			201
ISSUED			042

REVISION TO CURRENT	IS1 PROGRAM	STANDARDS/FORMAT	PER DCN 3613
A	B	M	H
12	16	16	16
12	16	16	16
12	16	16	16



NOTES:  
 1. ALL PIPING ON THIS ISO.  
 IS CLASS "3".  
 2. DIMENSIONS AND ELEVATIONS  
 ARE FOR REFERENCE ONLY

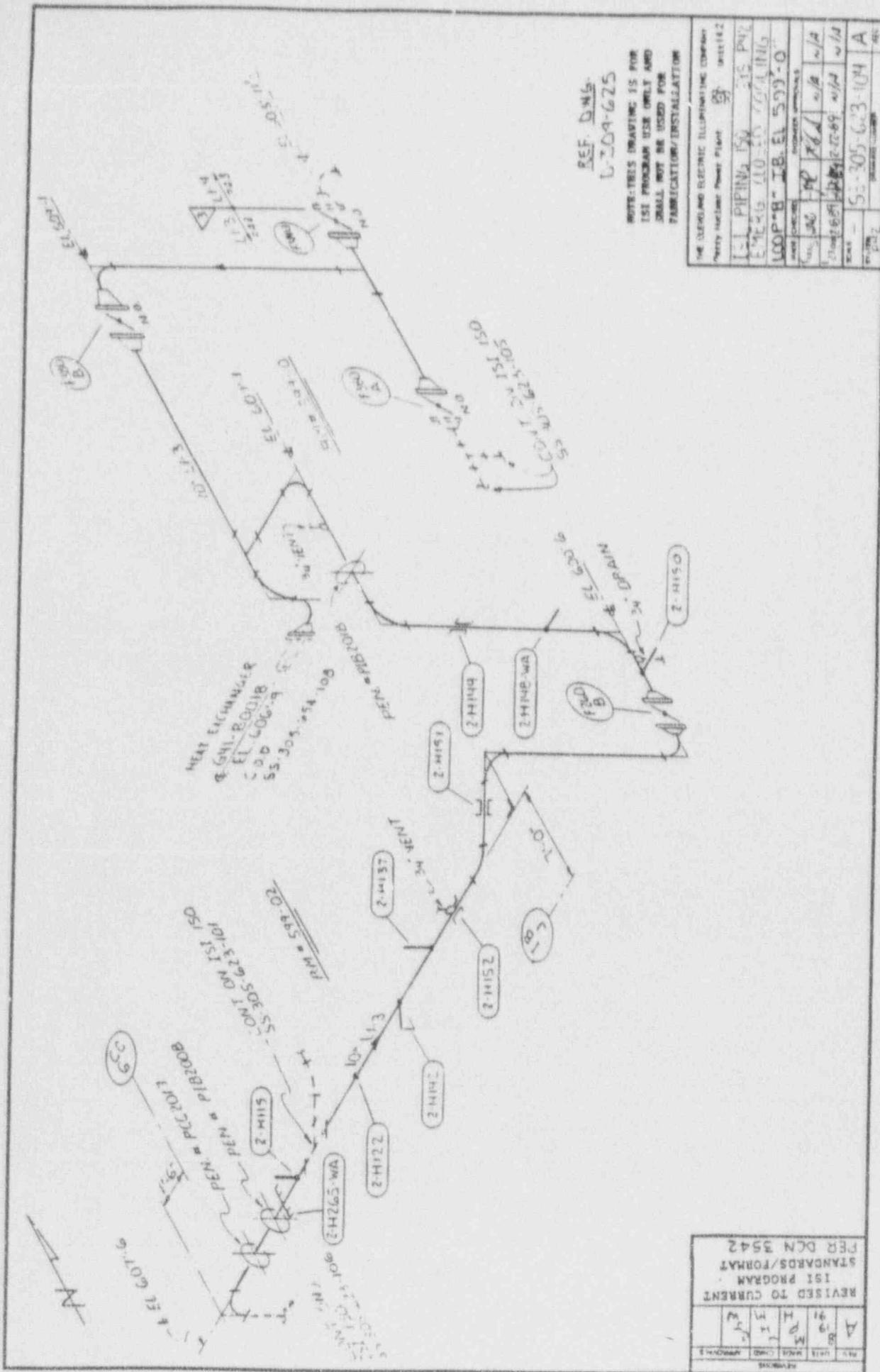
E.L. DWG  
 D-304-625

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NO.	DATE	BY	CHKD	APPROVED
1		A		
2		M		
3		H		
4		C		
5		D		
6		M		
7		H		
8		M		
9		C		
10		D		

REVISED TO CURRENT  
 1ST PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	
PROJECT NO.	112
PROJECT NAME	ISI PIPING ISO SYS. P42
PROJECT DESCRIPTION	EMERG. CLOSED COOL. SYS.
PROJECT LOCATION	LOOP "B" I.B. EL. 500'-0"
DATE	11/17/68
BY	W.B. CR
CHKD	K.B.A.
APPROVED	N/A
SCALE	AS SHOWN
NO. OF SHEETS	22
SHEET NO.	10
ISSUE NO.	SS-305-623-103
REV.	A

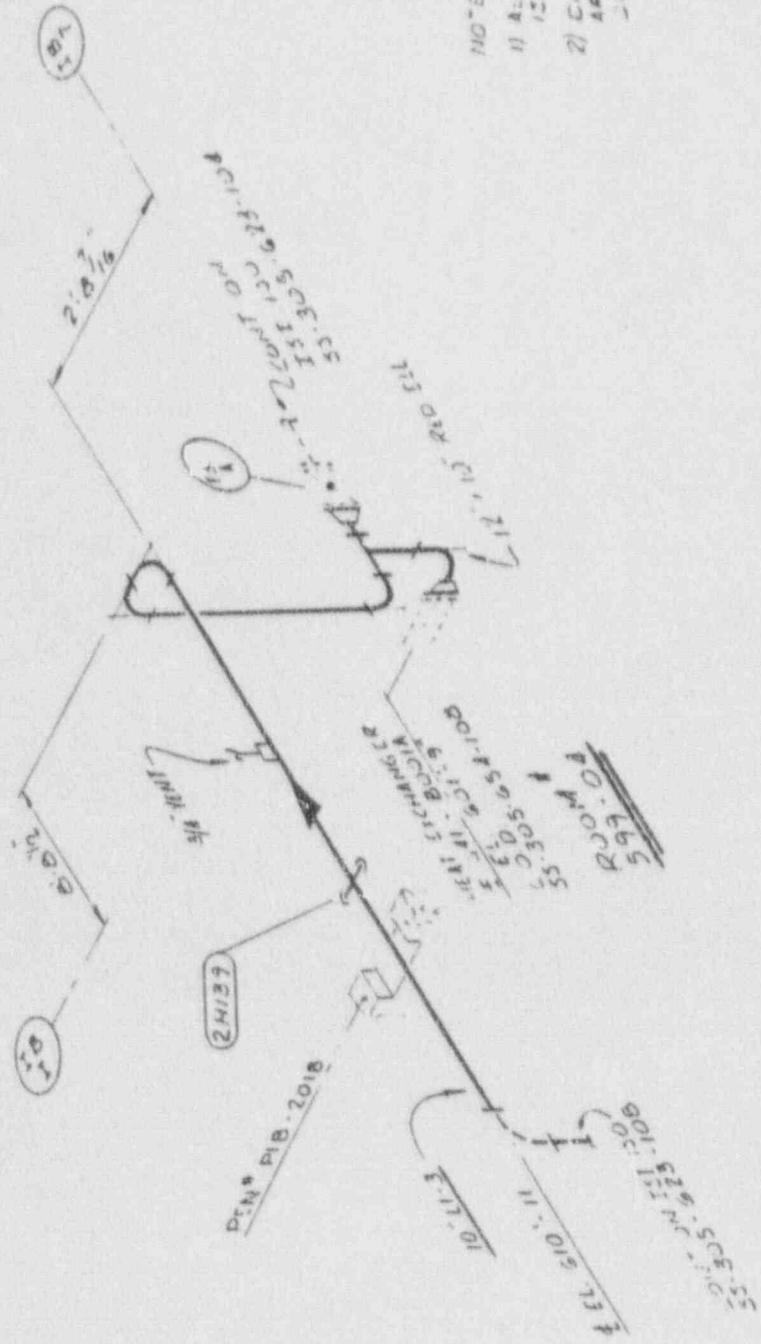


REF. DWG.  
U-309-625

NOTE: THIS DRAWING IS FOR  
1ST PROGRAM USE (WLT) AND  
SHALL NOT BE USED FOR  
FABRICATOR/INSTALLATION

THE LEEBOND ELECTRIC ILLUMINATING COMPANY	
Project Name	Power Plant
Sheet No.	99
Scale	AS SHOWN
Drawn By	J.P.
Checked By	J.P.
Project No.	55-305-623-104
Revision	A

REVISED TO CURRENT	A	19	11	11	11
1ST PROGRAM	B	18	11	11	11
STANDARDS/FORMAT	M	14	11	11	11
PER DCN 3542	H	12	11	11	11



NOTES:  
 1) ALL PIPING ON THIS  
 ISO IS CLASS '3'.  
 2) DIMENSIONS & ELEVATION  
 ARE FOR REFERENCE  
 ONLY

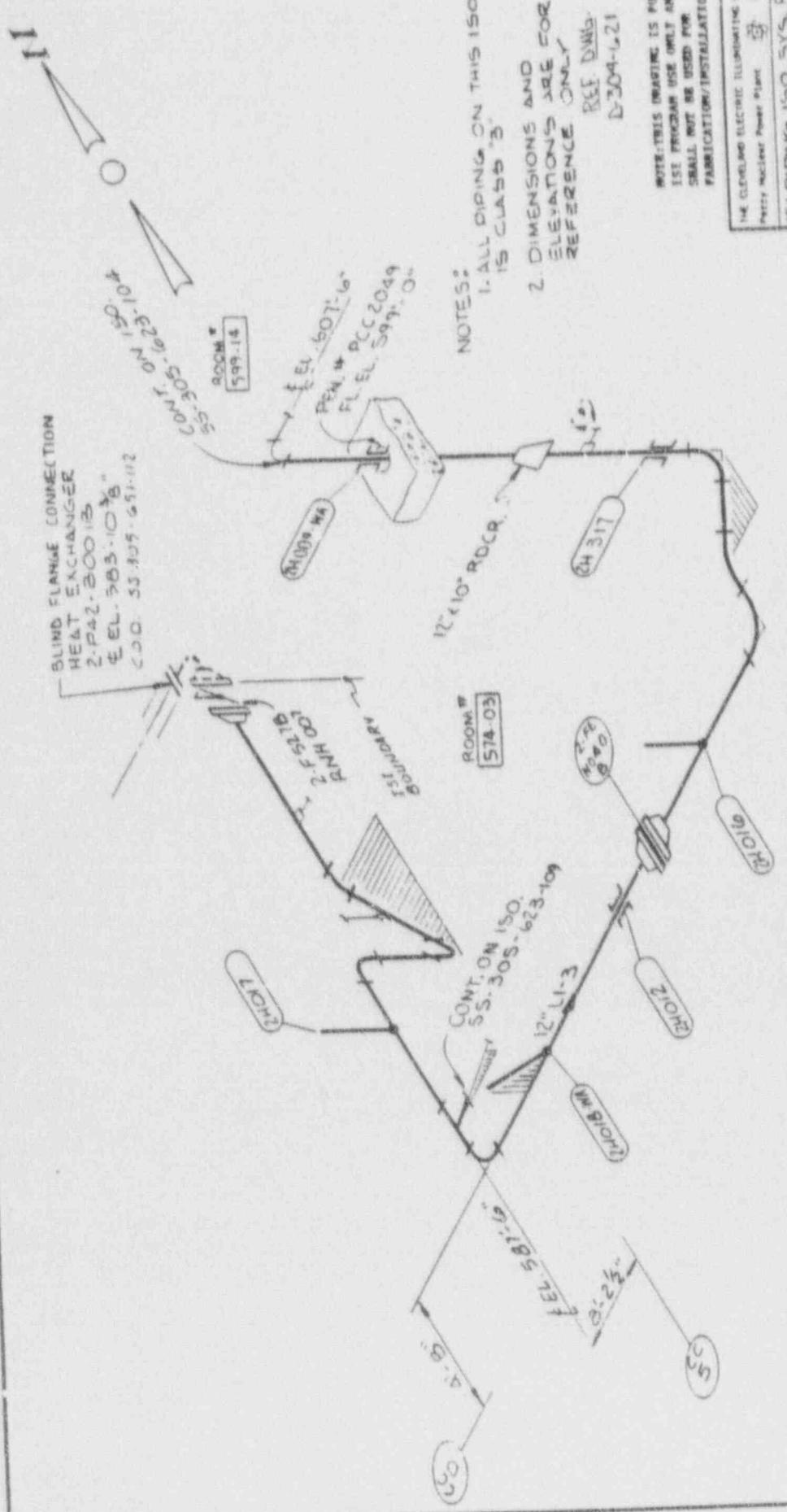
RSE DWG  
 D-30A-625

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE ELECTRIC ILLUMINATING COMPANY	
Project Name: <u>Plant</u>	Sheet: <u>1</u>
T-SI PIPING ISO SYS P42	
EMERGENCY CLOSED COOLING	
LOOP 'A' ID EL 599-0	
DATE: <u>10/11/11</u>	DESIGNED BY: <u>WJ</u>
DATE: <u>10/11/11</u>	CHECKED BY: <u>WJ</u>
DATE: <u>10/11/11</u>	APPROVED BY: <u>WJ</u>
SCALE: <u>AS SHOWN</u>	TOTAL SHEETS: <u>5</u>
SHEET NO: <u>25</u>	REVISED TO: <u>3542</u>

REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCN 3542										
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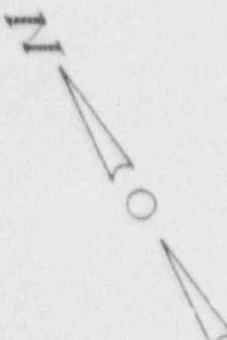
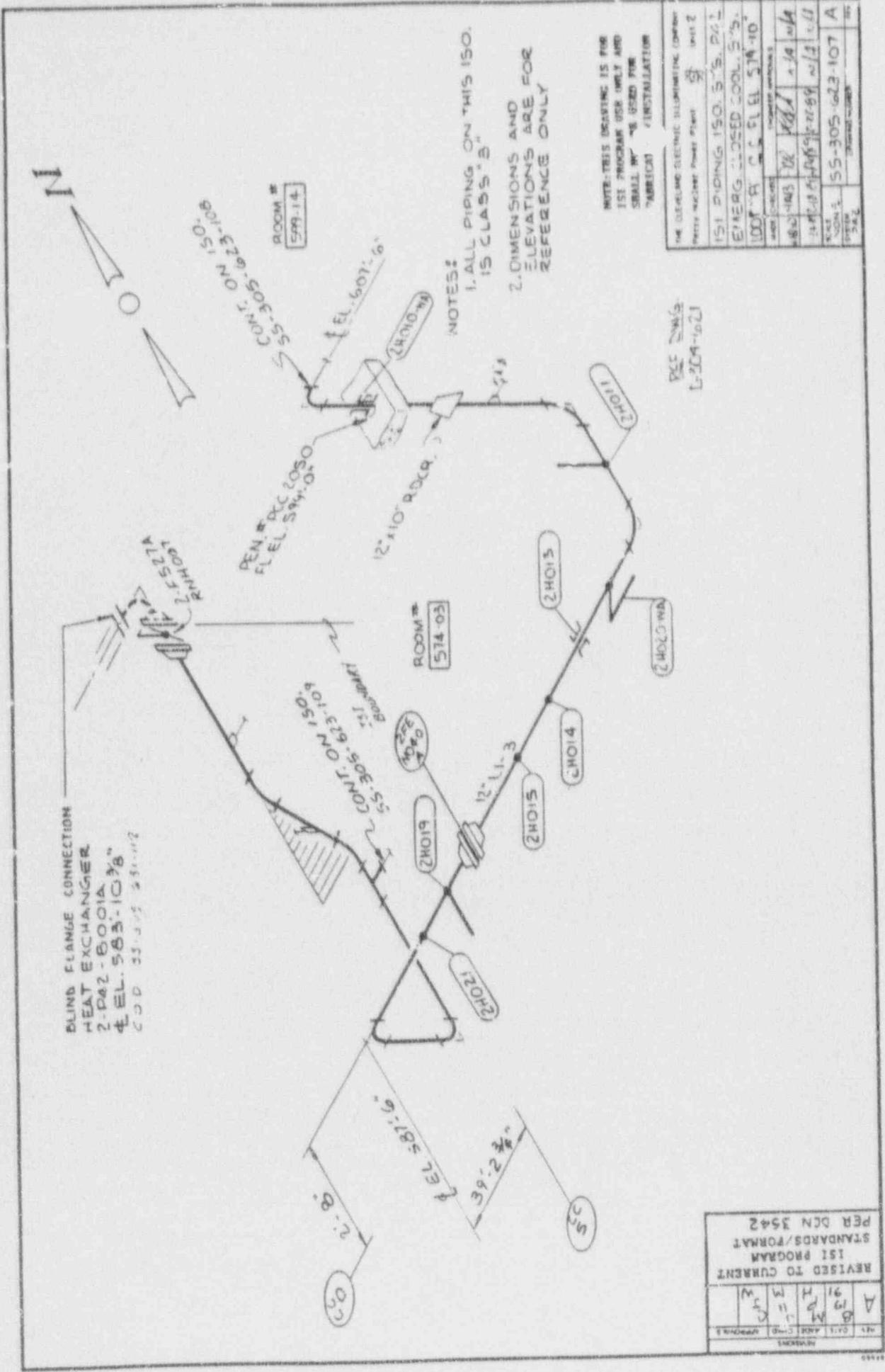
NOTES:  
 1. ALL PIPING ON THIS ISO.  
 IS CLASS "B"  
 2. DIMENSIONS AND  
 ELEVATIONS ARE FOR  
 REFERENCE ONLY  
 REF. DWG.  
 D-304-421

NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No.	599-14
Sheet No.	574-03
Project Name	ISO PIPING 150.515 P42
Project Location	EMERG. CLOSED COOL. SYS.
Project Description	LOOP "B" - E. EL 574-10
Project Date	7/2/51
Project Engineer	J.H. ...
Project Designer	...
Project Checker	...
Project Approver	...
Project No.	55-305-623-109
Sheet No.	A

REV	DATE	BY	CHKD	APPROVED
1		A.P.	M.H.	
2		J.H.	J.H.	
3		J.H.	J.H.	

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542



NOTES:  
 1. ALL PIPING ON THIS ISO.  
 IS CLASS 5-B.  
 2. DIMENSIONS AND  
 ELEVATIONS ARE FOR  
 REFERENCE ONLY

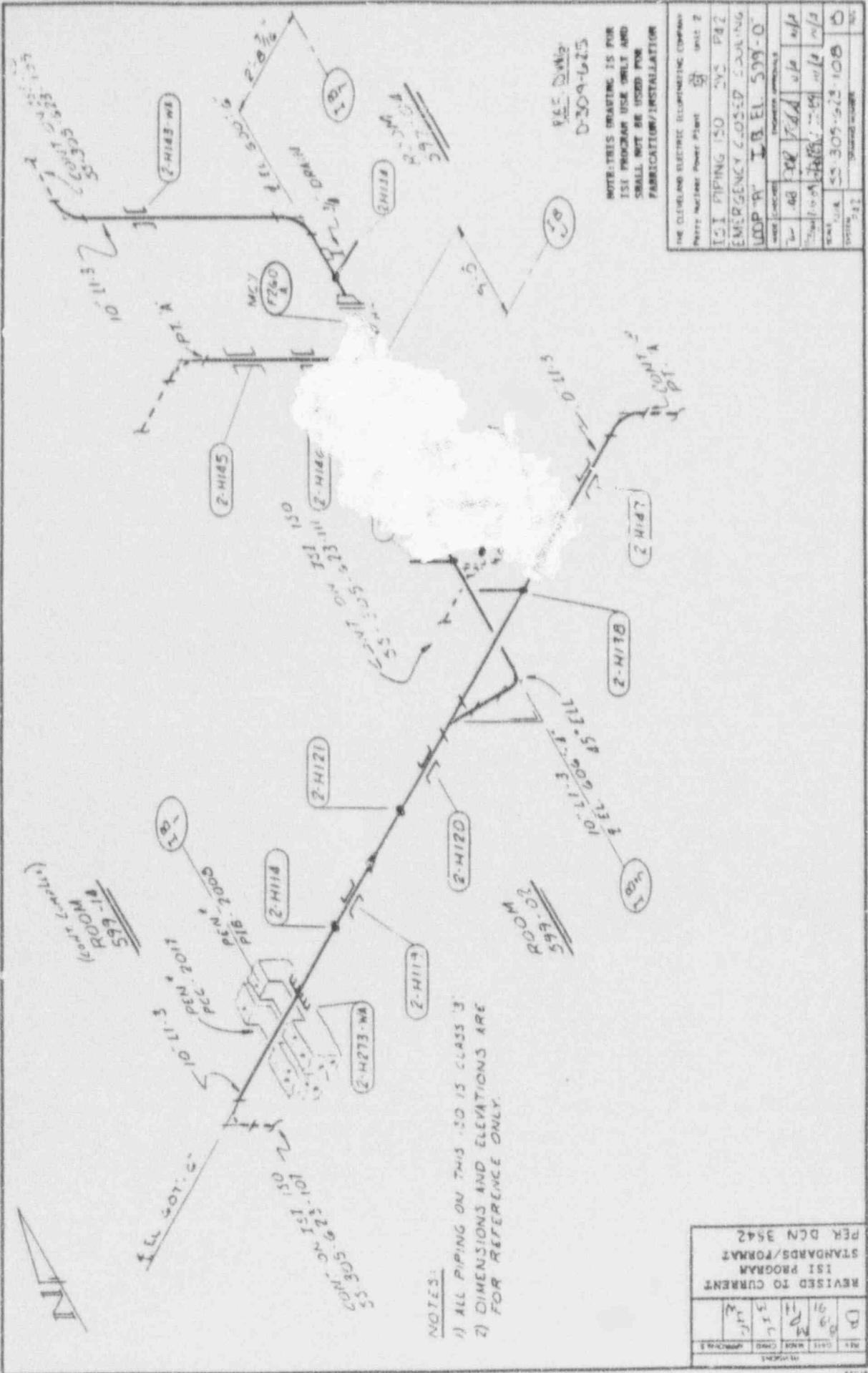
NOTE: THIS DRAWING IS FOR  
 ISO PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION / INSTALLATION

THE DESIGNING ELECTRICAL ENGINEERING COMPANY	
PROJECT NUMBER	511-107
DATE	01/11/10
ISO PIPING ISO 511 S. P. 1	
ENERG. CLOSED COOL. S. 1	
ISSUE NO.	01
DATE	01/11/10
BY	W. J. H. / J. A. M.
CHECKED	W. J. H. / J. A. M.
SCALE	AS SHOWN
PROJECT NO.	511-107
ISSUE NO.	01

SEE DWG'S  
 L-204-1021

BLIND FLANGE CONNECTION  
 HEAT EXCHANGER  
 2-P42-8001A  
 4 EL. 583'-10 3/8"  
 CDD 33-305-581-112

REVISED TO CURRENT	REVISED TO CURRENT
151 PROGRAM	151 PROGRAM
STANDARDS/FORMAT	STANDARDS/FORMAT
PER DCN 3542	PER DCN 3542
DATE	DATE
BY	BY
CHECKED	CHECKED
APPROVED	APPROVED



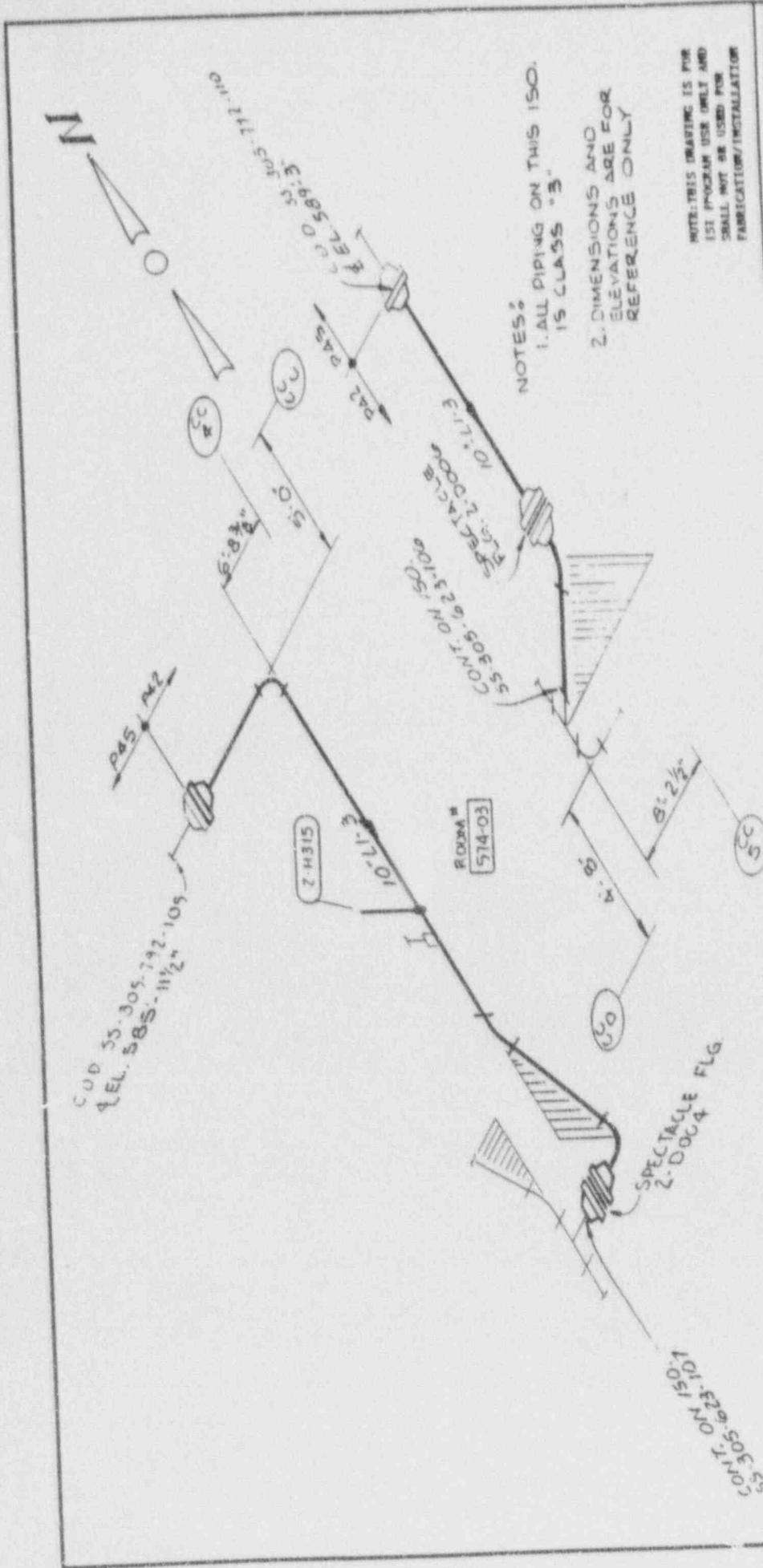
FILE DWHg  
D-304-625

NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE OBERLAND ELECTRIC ENGINEERING COMPANY	
Perry Nuclear Power Plant Unit 2	
ISI PIPING ISO SYS P42	
EMERGENCY CLOSED CRAWLING	
LOOP 'A' I.B. EL. 599'-0"	
REV	DESCRIPTION
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NOTES:  
1) ALL PIPING ON THIS IS CLASS 'B'  
2) DIMENSIONS AND ELEVATIONS ARE  
FOR REFERENCE ONLY.

REV	DATE	BY	CHKD	APP'D
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100	10/11/83	W	W	W



NOTES:  
 1. ALL PIPING ON THIS ISO. IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

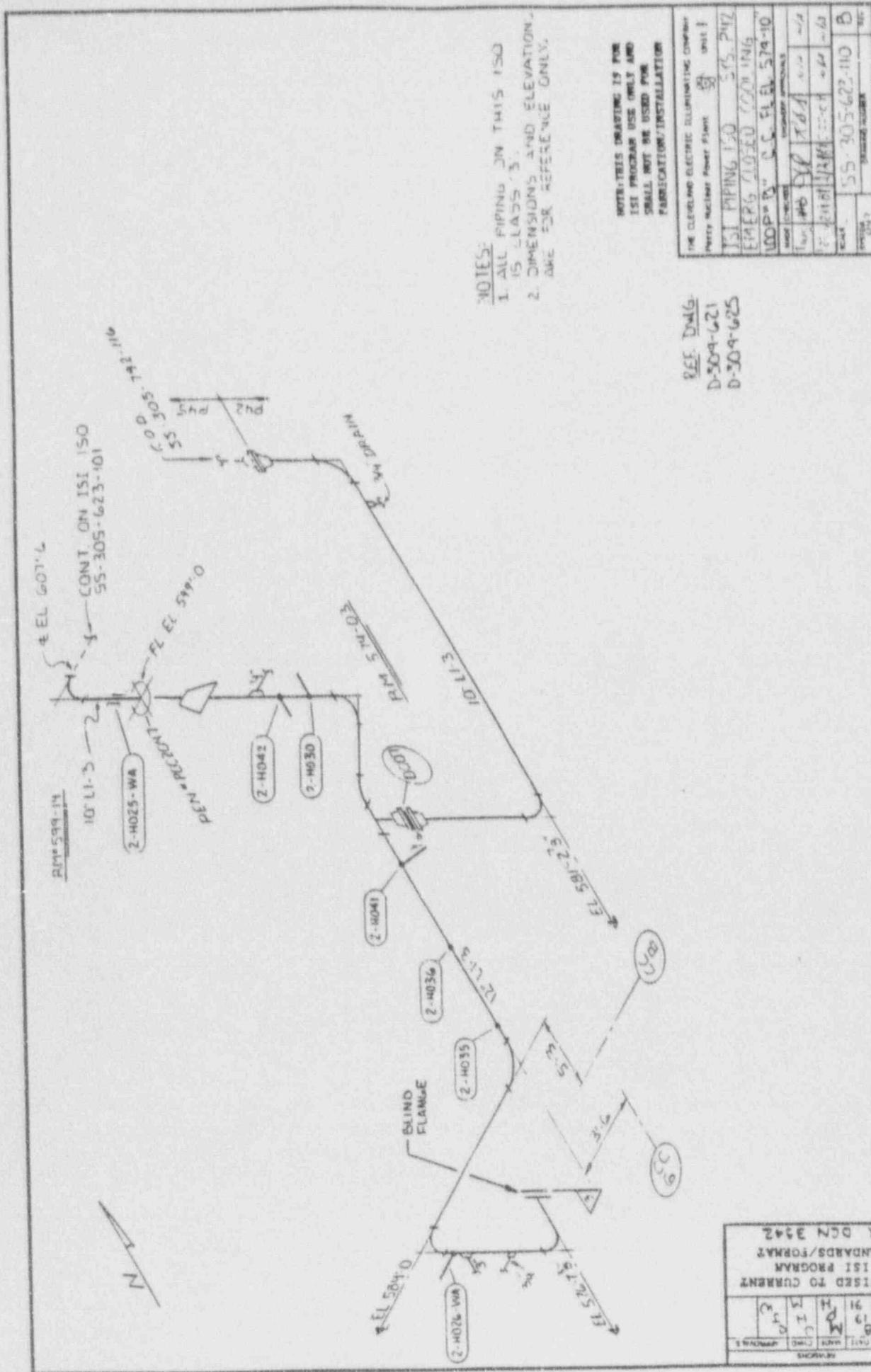
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATOR/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		
PROJECT NUMBER	UNIT	DATE
151 PIPING ISO. SYS. P42	57	11/2
EMERG. CLOSED COOL. SYS.		
WOP'R 1' 8" C.L. EL. 579-10		
NO.	REV.	DATE
1	1	11/2
2	1	11/2
3	1	11/2
4	1	11/2
5	1	11/2
6	1	11/2
7	1	11/2
8	1	11/2
9	1	11/2
10	1	11/2
11	1	11/2
12	1	11/2
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96	1	11/2
97	1	11/2
98	1	11/2
99	1	11/2
100	1	11/2

REF. DWG. D-309-621

REV.	DATE	BY	CHKD.	APP'D.	REVISION
A	11/2	H	L		
B	11/2	M	H		
C	11/2	L	H		
D	11/2	H	L		
E	11/2	H	L		

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542



**NOTES:**

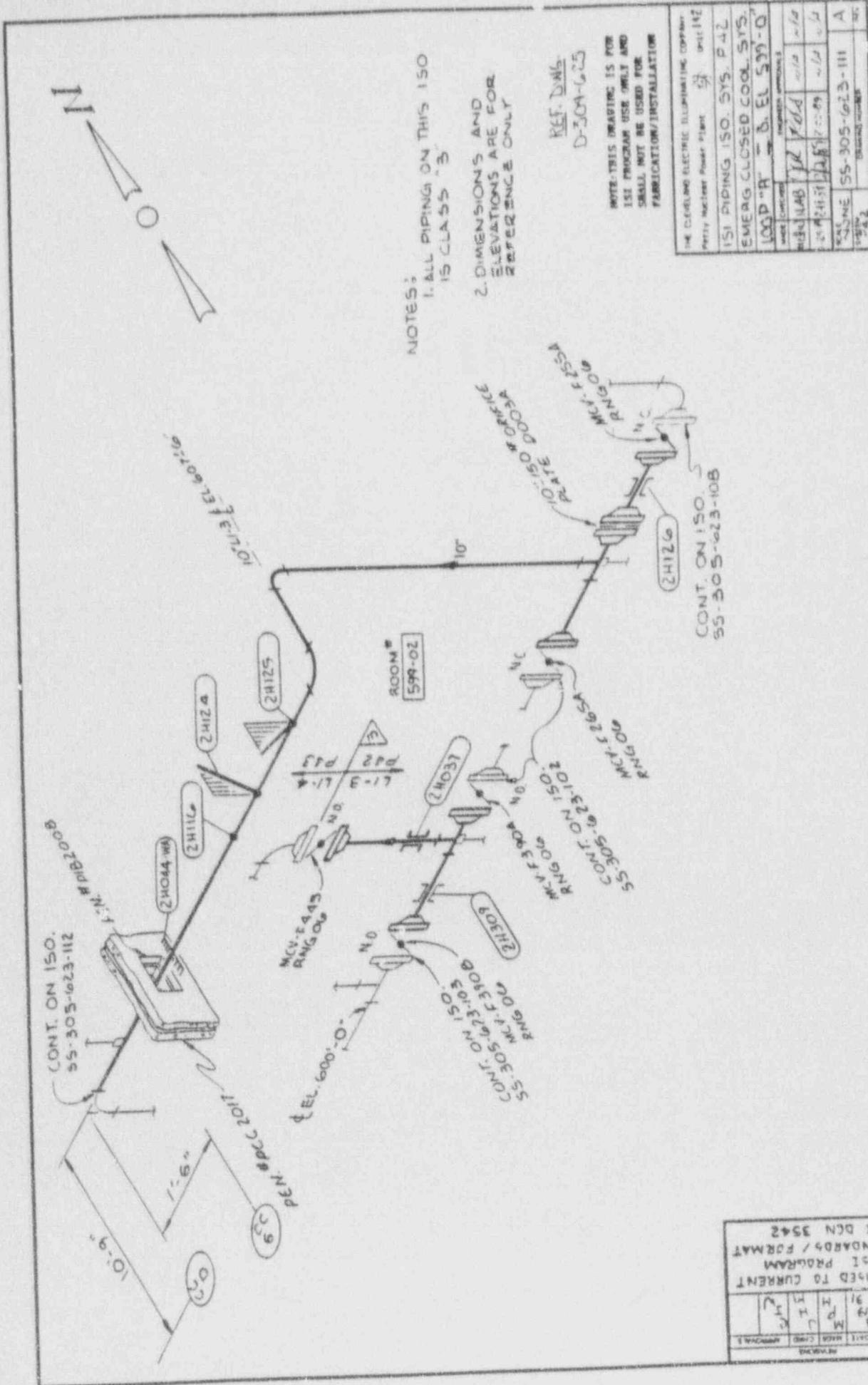
1. ALL PIPING IN THIS ISO IS CLASS '3'.
2. DIMENSIONS AND ELEVATION, ARE FOR REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	55-305-623-101
DATE	5/5/62
DESIGNER	J.P.
CHECKER	J.P.
SCALE	AS SHOWN
PROJECT	ISI PROGRAM
NO.	55-305-623-110
REV.	B

SEE DWG  
D-304-621  
D-304-625

REV.	NO.	DATE	BY	REASON
	1	5/5/62	J.P.	REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3142



NOTES:  
 1. ALL PIPING ON THIS ISO IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

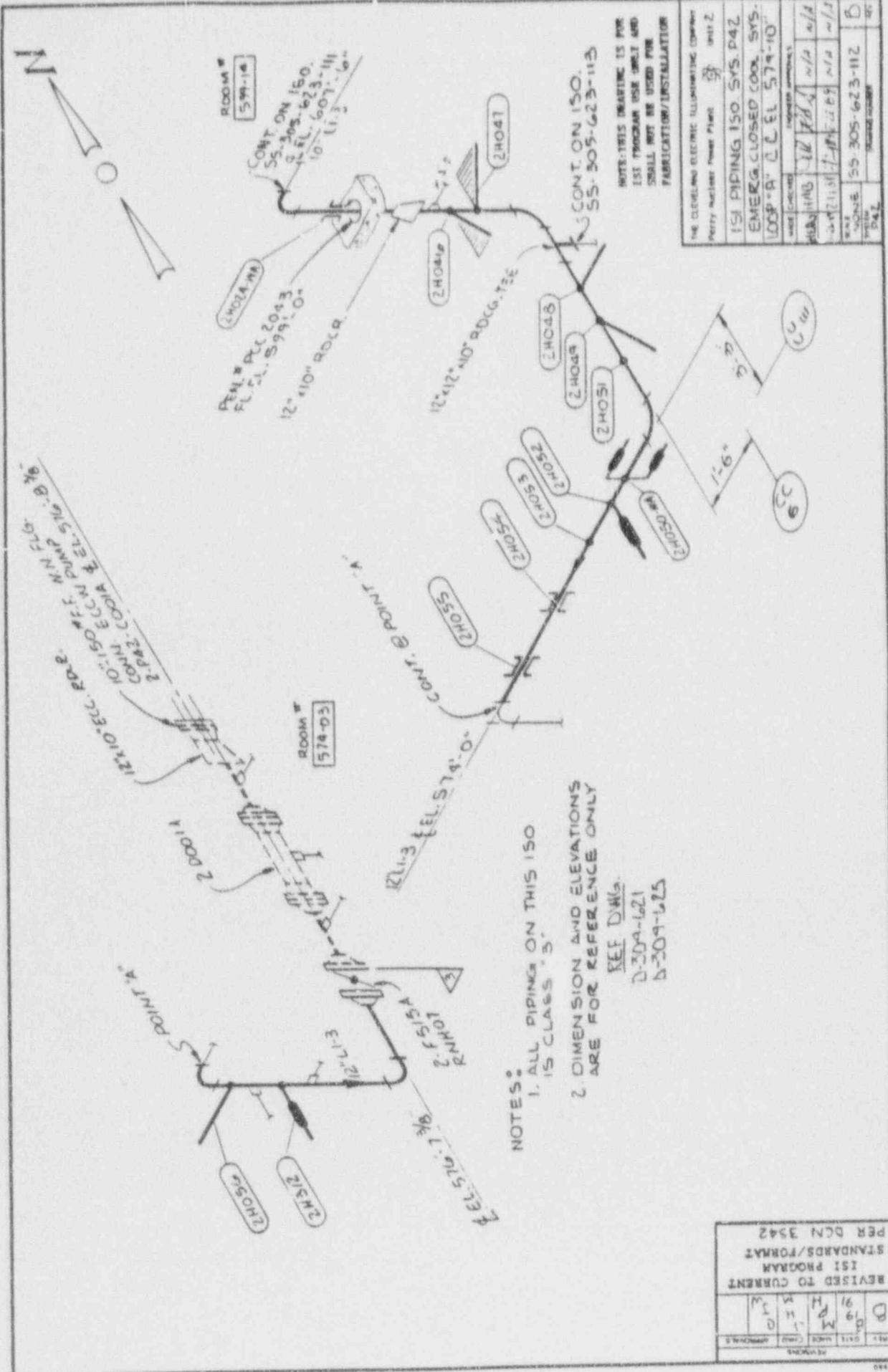
REF. DWG.  
 D-30A-625

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DUBLINO ELECTRIC ILLUMINATING COMPANY	PROJECT NUMBER	55-305-623-112
ISI PIPING ISO. SYS. P 42	EMERG. CLOSED COOL. SYS.	
LOOP "R" - D. EL. 599-0		
DATE	SCALE	REVISIONS
11/20/81	1/4" = 1'-0"	
12/14/81		
DRAWING NUMBER		
55-305-623-111		
SCALE		
1/4" = 1'-0"		

REV	DATE	BY	CHKD	APPROVAL
A	9/1	M	H	L
B		P	H	L
C		L	H	L
D		H	H	L
E		L	H	L

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS / FORMAT  
 PER DCN 3542



NOTES:

1. ALL PIPING ON THIS ISO IS CLAS "B"
2. DIMENSION AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG.  
 D-30A-1021  
 D-30A-1025

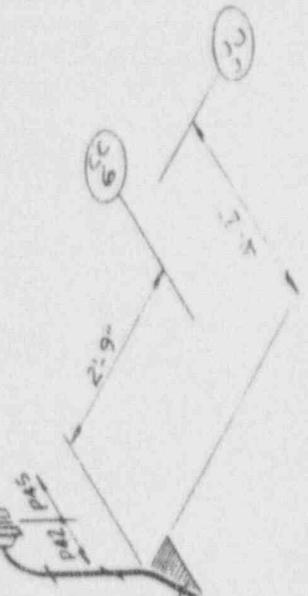
NOTE: THIS DRAWING IS FOR  
 ESI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant	UNIT 2
151 PIPING ISO SYS. P42	
EMERG. CLOSED COOL. SYS.	
LOOP "A" C.C.E.L. 579-10"	
DATE	ISSUED
12/11/81	12/11/81
BY	CHKD
J. H. B.	J. H. B.
SCALE	AS SHOWN
55-305-623-112	55-305-623-112
DATE	SCALE
12/11/81	AS SHOWN

REVISED TO CURRENT	PER DCN 3542
STANDARDS/FORMAT	
151 PROGRAM	
D	
B	
M	
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L	
M	
I	
W	



COMT ON 150  
 S5-305-623-113



ROOM #  
 574-00

10-113

SPECTACLE FIG.  
 2-0005

NOTES:

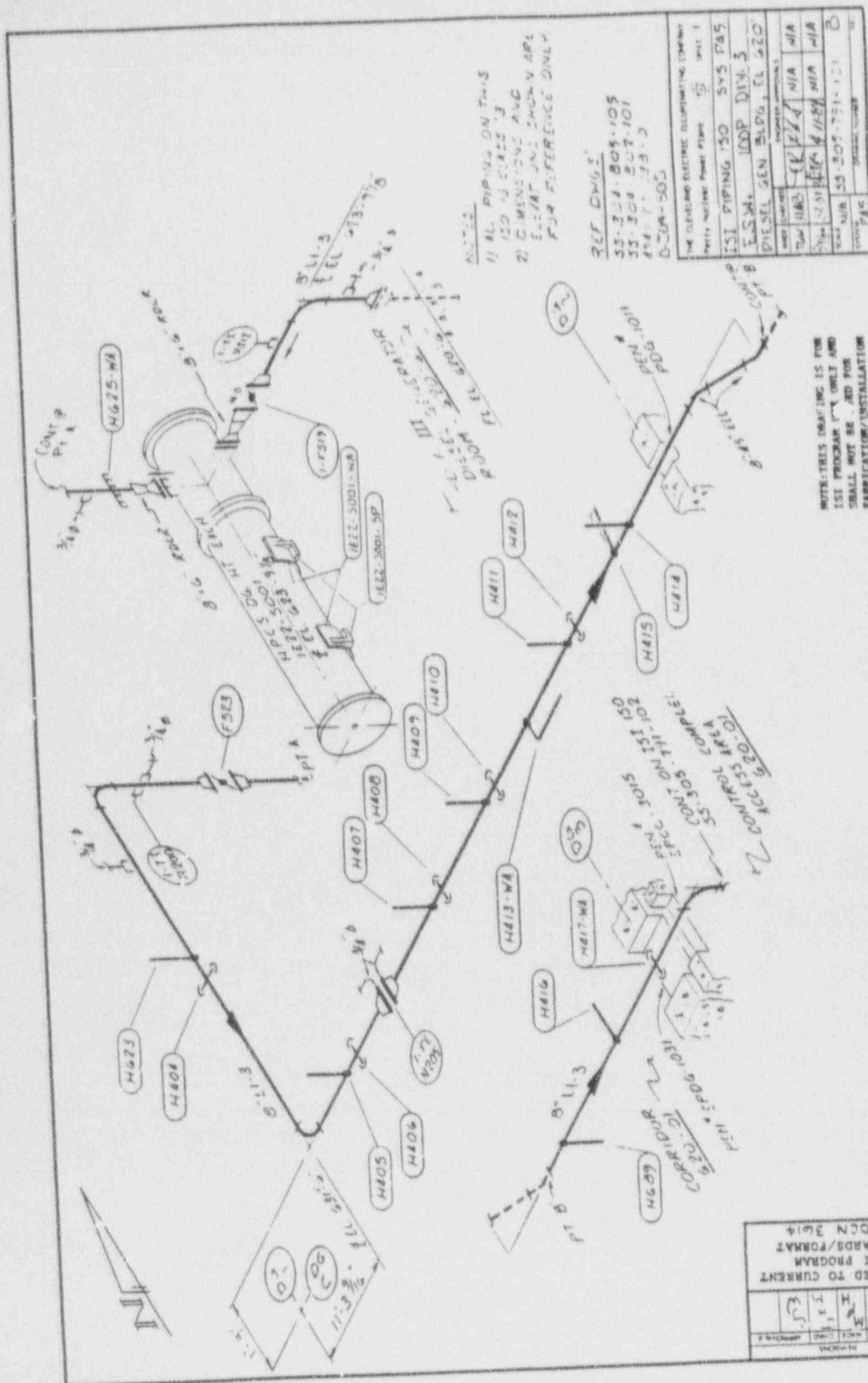
1. ALL PIPING IN THIS ISO.
- 1'S CLASS 'B'.
2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

NOTE: THIS DRAWING IS FOR  
 EST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REF DWG  
 D-304-22

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER LCN 3542	A	10	11/20	11/20	11/20
	B				
	M				
	H				
	C				
	W				

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	574-00 UNIT 2
151 PIPING ISO SYS 042	
EMERG. CLOSED COOL. SYS.	
LOOP #	CC EL 574-10
NO. LOCATIONS	1
NO. UNITS	1
NO. PIPING	1
NO. VALVES	1
NO. FITTINGS	1
NO. WELDS	1
NO. JOINTS	1
NO. CONNECTIONS	1
NO. OTHER	1



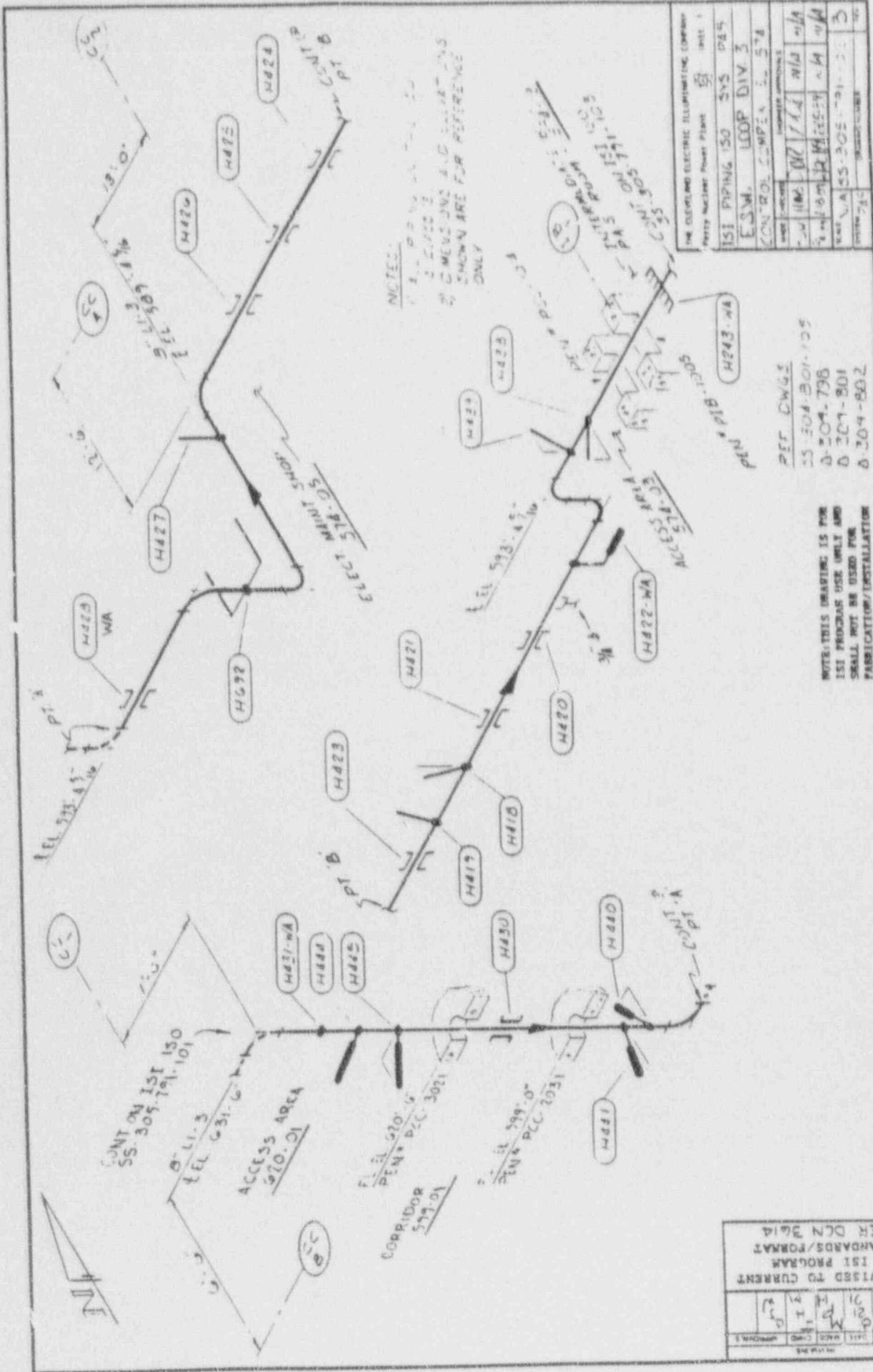
NOTES:  
 1) ALL PIPING ON THIS  
 120 IS CLASS 'B'  
 2) DIMENSIONS AND  
 ELEVATIONS SHOWN ARE  
 FOR REFERENCE ONLY

REF DWGS:  
 55-304-809-105  
 55-304-807-101  
 55-304-808-101  
 55-304-809-101  
 55-304-809-101

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Diesel Gen Bldg	Unit: 1
ISI PIPING 150 SYS P&S	
E.S.M. IDOP DIV. 3	
DIESEL GEN BLDG, EL. 220	
DATE: 11-88	SCALE: N/A
PROJECT NO: 55-304-809-101	REV: 1
DRAWN BY: P&C	CHECKED BY: P&C

NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3614	D 21 16 12 8 4	11/13/88	P&C
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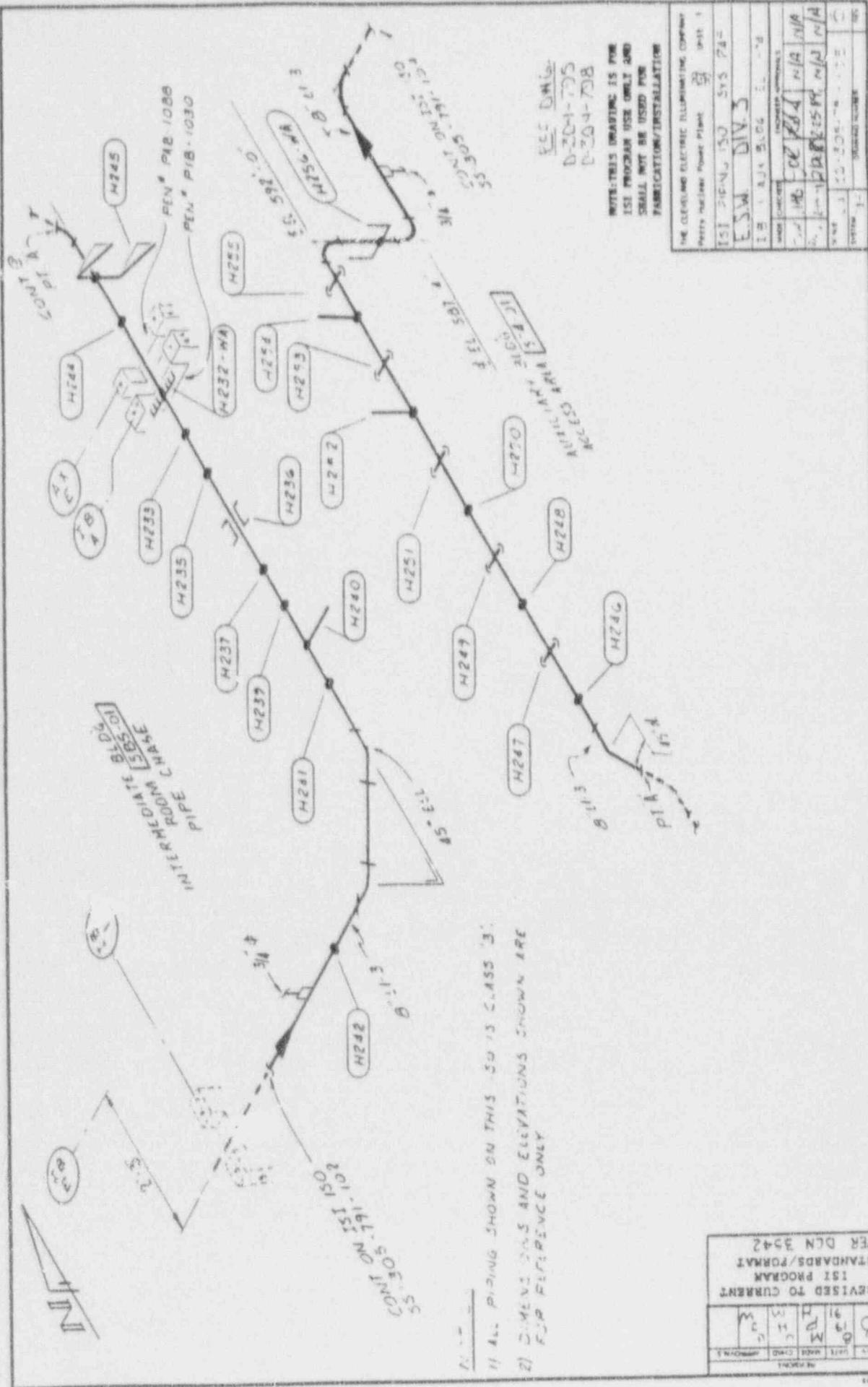
NOTES:  
 1. ALL DIMENSIONS ARE IN FEET AND INCHES.  
 2. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.  
 3. DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: 151 PIPING 150 SYS 045	Sheet: 1
E.S.M. LOOP DIV. 3	
CONTROL SYSTEMS	
DATE: 11/15/54	BY: J.A.A.
SCALE: AS SHOWN	PROJECT: 151-105
REVISED TO CURRENT STANDARDS/FORMAT	ISSUED: 11/15/54

PER DWGS:  
 151-304-801-105  
 151-304-798  
 151-304-801  
 151-304-802

NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT STANDARDS/FORMAT	11/15/54	J.A.A.
PER DCN 3614	11/15/54	J.A.A.



SEE DWG'S  
D-204-705  
D-204-708

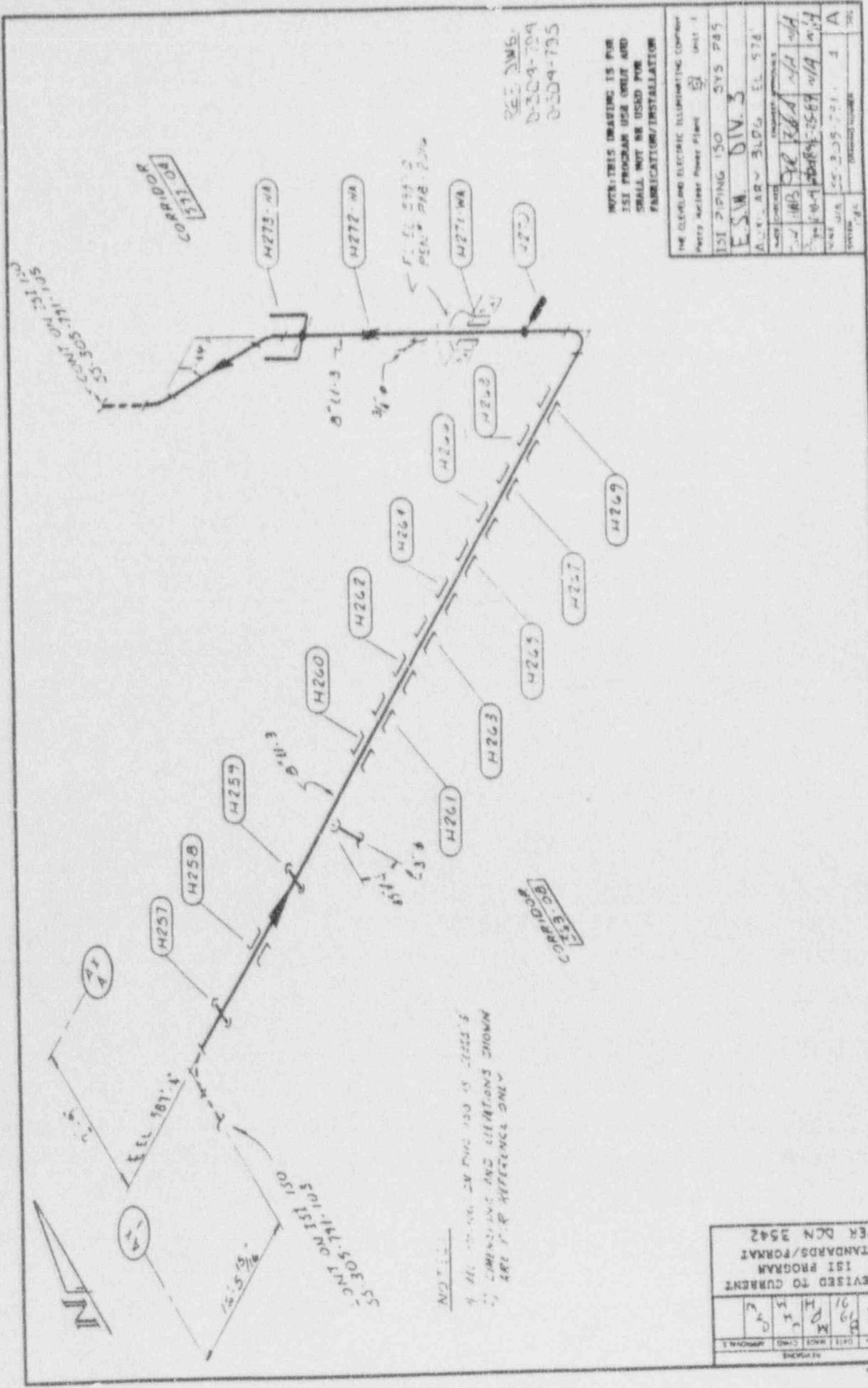
NOTE: THIS DRAWING IS FOR  
ISSI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	100-1011
ISSI Program	130 SYS 74
Division	ESW DIV 3
Sheet	18
Scale	AS SHOWN
Author	...
Checker	...
DATE	...
SYSTEM	...

INTERMEDIATE BLDG. (ES-01)  
PIPE

- 1) ALL PIPING SHOWN ON THIS IS CLASS '3'.
- 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

REVISED TO CURRENT ISSI PROGRAM STANDARDS/FORMAT PER DCN 3542	
DATE	BY
11/19/81	H
11/19/81	M
11/19/81	W



COMBROOK  
3535

REV. 01/85  
D-304-704  
D-304-705

NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Power Plant
ISI PIPING 150	SYS P85
ESW	DIV. 3
DATE	APR 30 1985
BY	...
CHECKED	...
APPROVED	...

NOTES:  
1. ALL DIMENSIONS ARE TO CENTER LINE UNLESS OTHERWISE SHOWN  
2. DIMENSIONS AND ELEVATIONS SHOWN  
ARE FOR REFERENCE ONLY

REV.	DATE	BY	CHKD.	APPROVAL
A	10/81	M	H	
B	11/81	M	H	
C	12/81	M	H	
D	01/82	M	H	

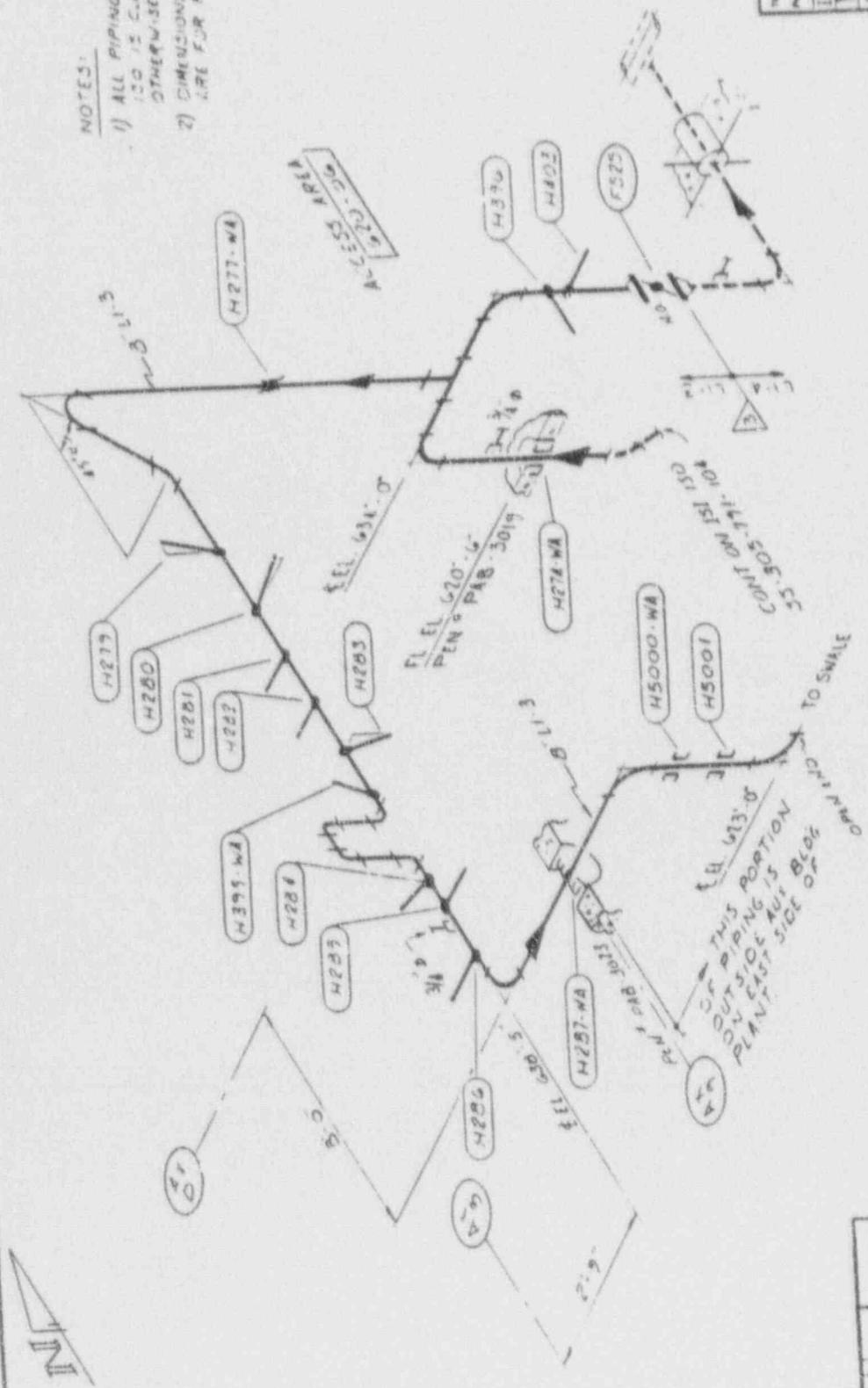
REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542

- NOTES:
- 1) ALL PIPING SHOWN ON THIS IS TO BE CLASS 3 UNLESS OTHERWISE NOTED
  - 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REV. 2/52  
 23-204 7-8-104  
 23-204 7-1-101

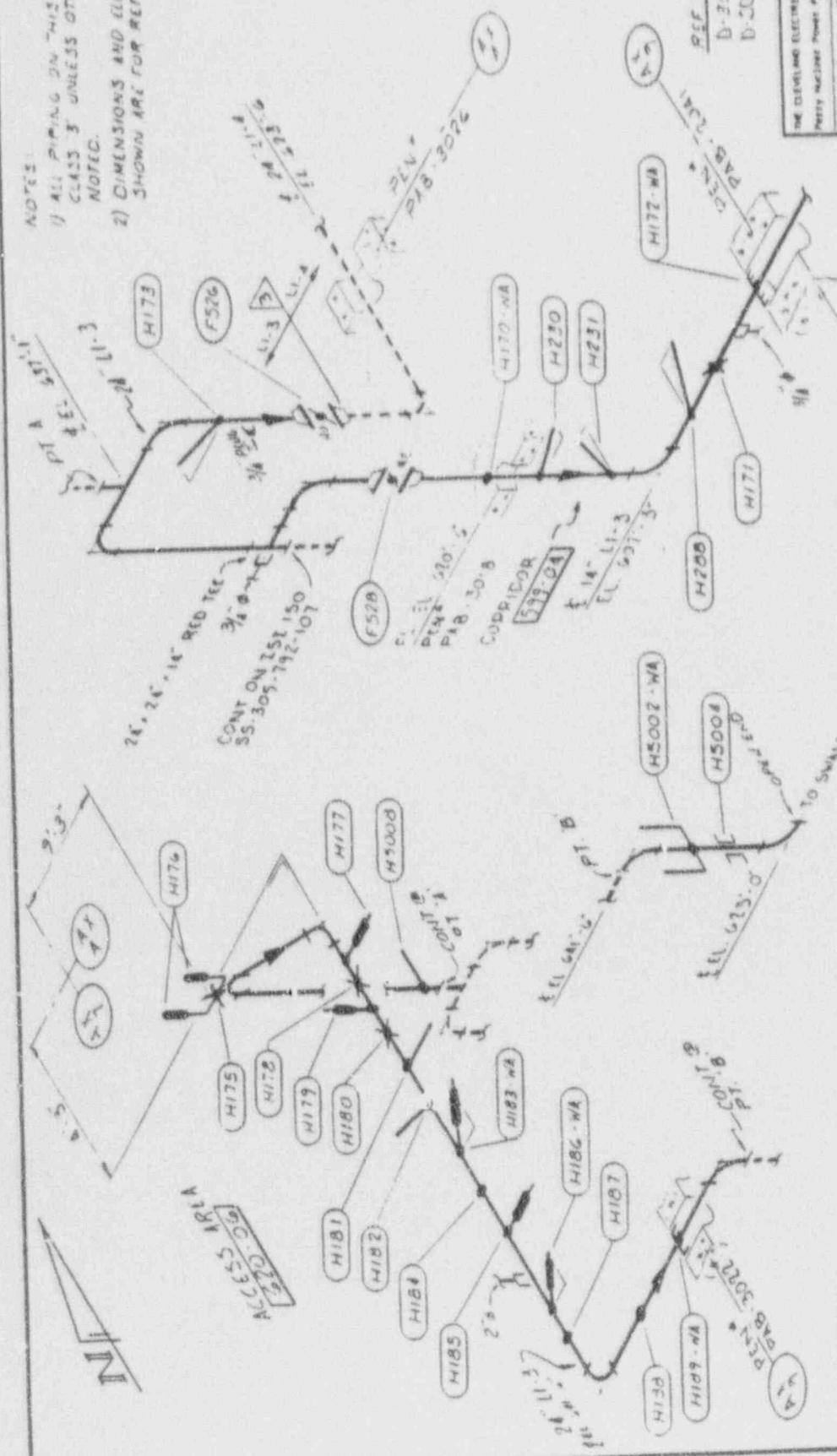
REVISED DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Pipe	Sheet: 51 of 1
ISI Piping: 50	545 P&S
E.S.W. DIV 3	
AUT LRY BLDG EL 220.0	
DATE: 11-25-52	BY: [Signature]
CHECKED: [Signature]	DATE: 11-25-52
APPROVED: [Signature]	DATE: 11-25-52



REVISED TO CURRENT	PER DCN 3542
STANDARDS/FORMAT	
ISI PROGRAM	
DATE	BY
11-25-52	[Signature]
11-25-52	[Signature]
11-25-52	[Signature]

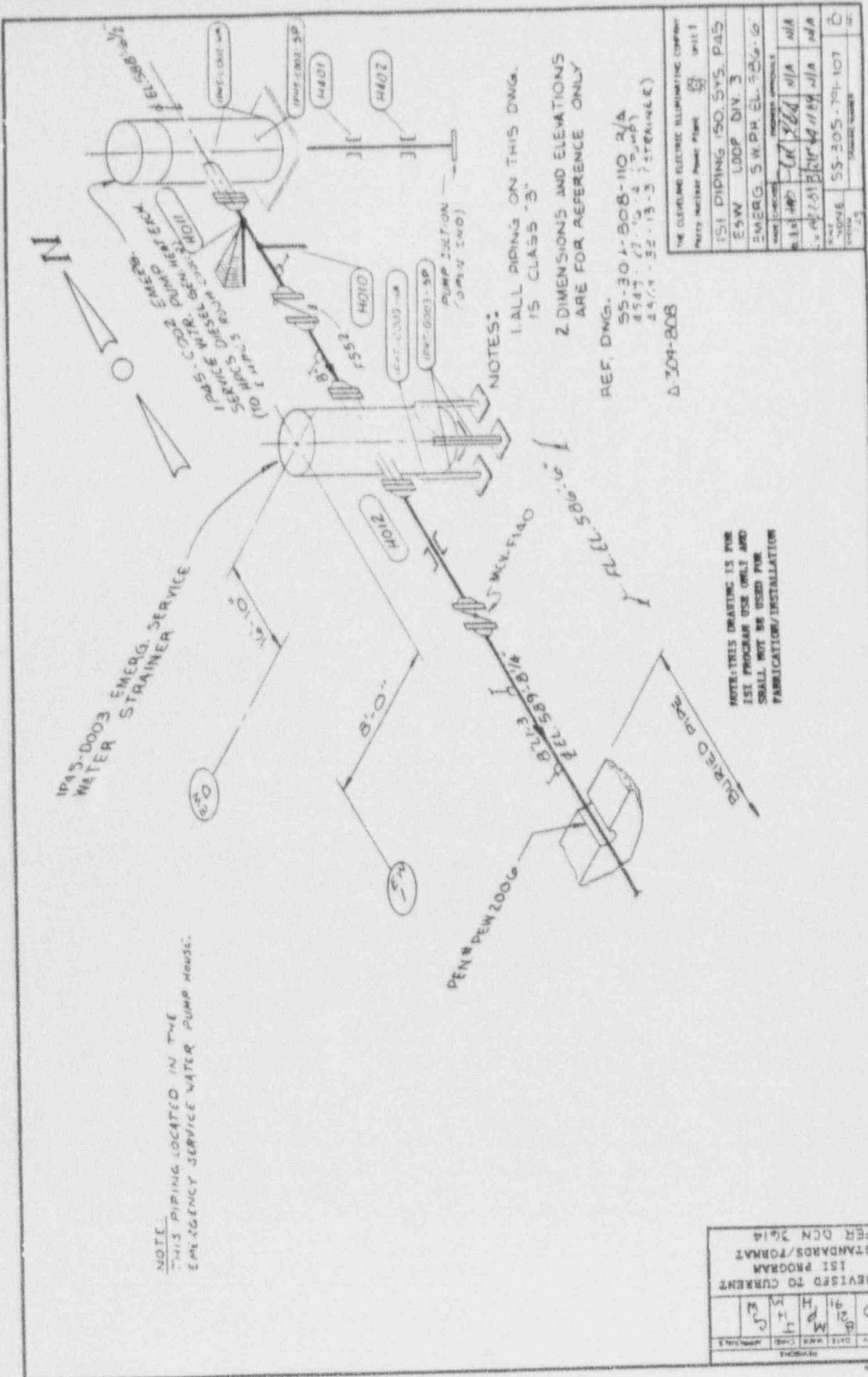
NOTES:  
 1) ALL PIPING ON THIS ISD IS CLASS 3 UNLESS OTHERWISE NOTED.  
 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY



THE DEVELOPING ELECTRIC ILLUMINATING COMPANY	
Project Name: ESW LOOP A	Sheet: 51
Scale: 1/4" = 1'-0"	Date: 11-10-59
Author: [Signature]	Checked: [Signature]
Drawn: [Signature]	Approved: [Signature]
Project No: 51-305	Sheet No: 79-106

NOTE: THIS DRAWING IS FOR IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3542
DATE: 11-10-59
BY: [Signature]
CHKD: [Signature]
APP'D: [Signature]



NOTE: THIS PIPING LOCATED IN THE EMERGENCY SERVICE WATER PUMP HOUSE.

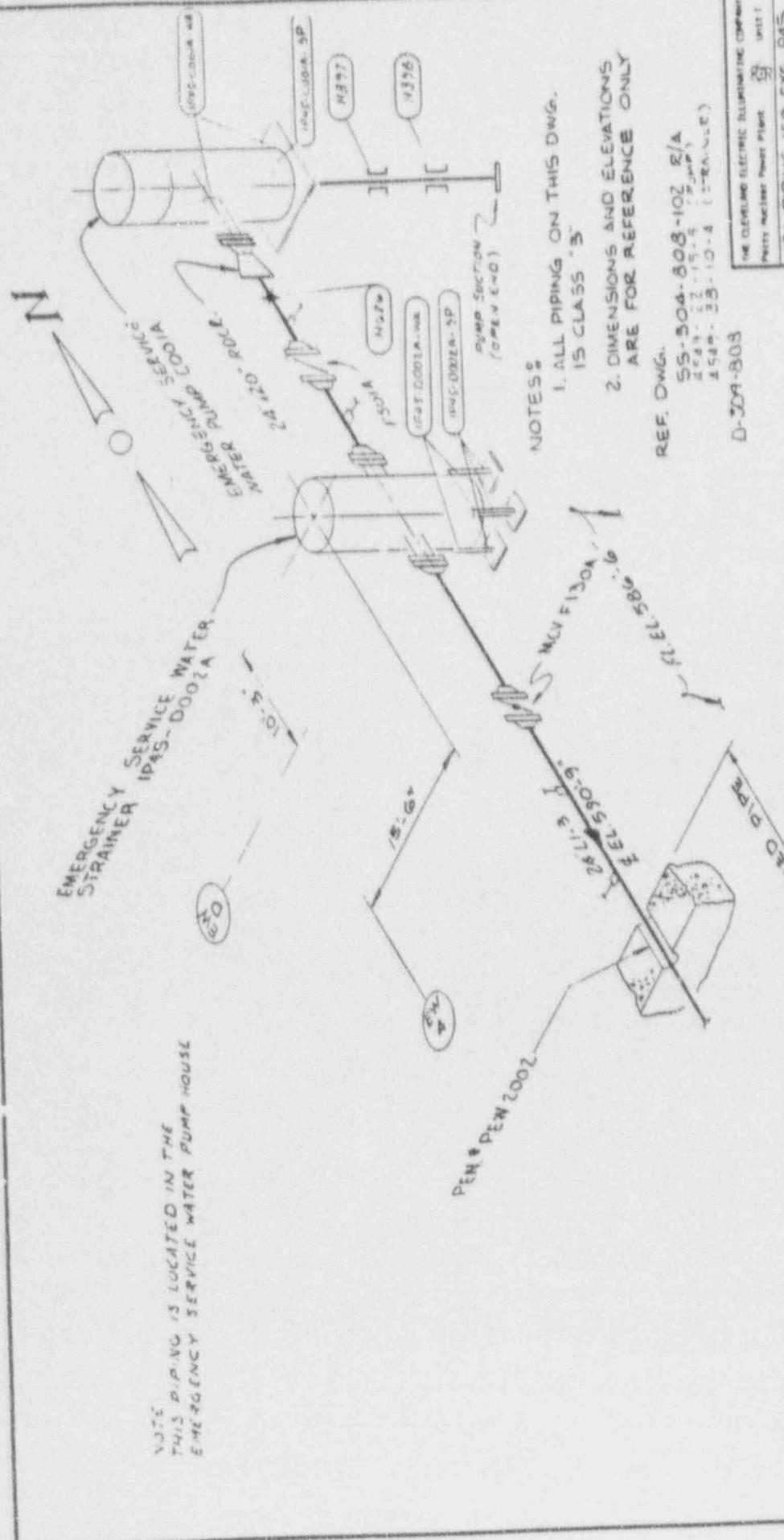
NOTES:  
 1 ALL PIPING ON THIS DWG. IS CLASS "B"  
 2 DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG.  
 55-301-808-110 2/A  
 55-301-808-110 2/B  
 55-301-808-110 2/C  
 55-301-808-110 2/D

NOTES: THIS DRAWING IS FOR I&E PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REVISED TO CURRENT I&E PROGRAM STANDARDS/FORMAT PER DCN 2614	D	21	11	5
DATE	BY	CHKD	APP'D	SCALE
11/19/88	P	H	M	1/8"

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Project Number	Unit 1		
Sheet Number	5		
ESI DIPING ISO. SYS. P45			
ESW LOOP DIV. 3			
EMERG. S.W.P.H. EL. 786.6			
INCHES APPROX.			
DATE	BY	CHKD	APP'D
11/19/88	P	H	M
SCALE	CHECKED	DATE	BY
1/8"	SS-305-791-107	11/19/88	M



NOTE  
THIS PIPING IS LOCATED IN THE  
EMERGENCY SERVICE WATER PUMP HOUSE

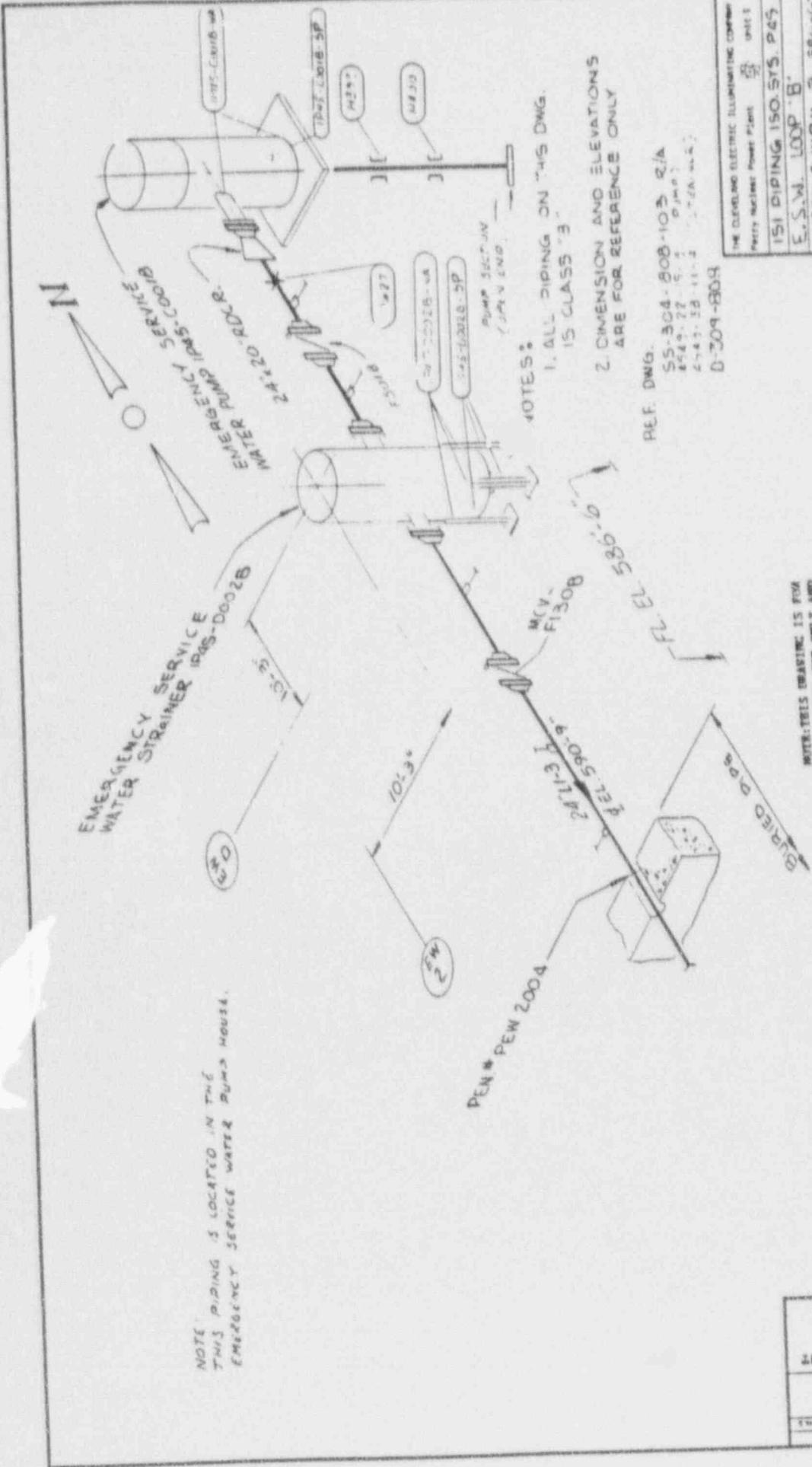
- NOTES
1. ALL PIPING ON THIS DWG. IS CLASS 'B'
  2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG.  
SS-304-808-102 R/A  
201-2-19-9 (REV)  
1549-33-10-4 (REV)  
D-30A-808

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3614	
D	21
M	1
H	1
C	1
E	1

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	151 PIPING 150. SYS. PAS
UNIT	5
E.S.W.	100' x 10'
EMERG. S.W.P.H.	EL. 58.6 - 6'
DATE CHECKED	12/18/11
BY	CK
DATE	12/18/11
SCALE	AS SHOWN
TITLE	SS-305-791-103
DATE	12/18/11
BY	PKS



NOTE:  
THIS PIPING IS LOCATED IN THE  
EMERGENCY SERVICE WATER PUMP HOUSE.

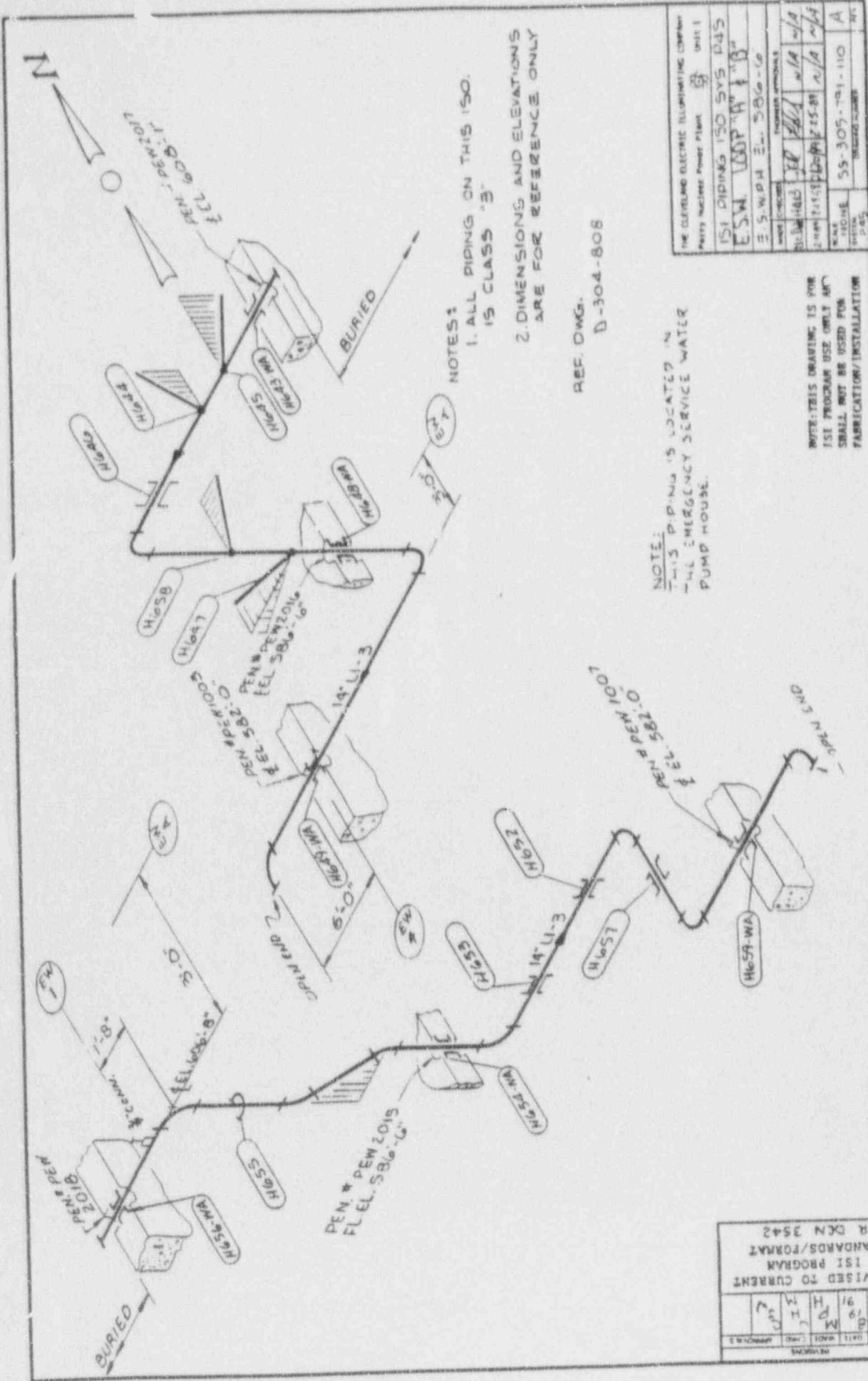
- NOTES:
1. ALL PIPING ON THIS DWG. IS CLASS "B"
  2. DIMENSION AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG.  
 55-304-808-103 R/A  
 54-272-15 0/100  
 54-125-11-2 0/100  
 D-309-809

WATER-TIGHT BRACING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REV. TO CURRENT			
ISI PROGRAM	STANDARDS/FORMAT	PAR DCN EG14	
REV	BY	DATE	DESCRIPTION
B	M		
P	H		
L	W		
C	M		
1	2		

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Perry Nuclear Power Plant		UNIT 3	
ISI PIPING ISO. SYS. P-49			
E.S.W. LOOP 'B'			
EMERG. S.W.P.M. E.L. 586'-0"			
NO.	DATE	DESCRIPTION	
1	8/14/84	REVISIONS	
2	11/12/84	N/A	
3	11/12/84	N/A	
4	11/12/84	N/A	
5	11/12/84	N/A	
6	11/12/84	N/A	
7	11/12/84	N/A	
8	11/12/84	N/A	
9	11/12/84	N/A	
10	11/12/84	N/A	
SHEET NO. 55-305-11-107		SHEET COUNT 21	



NOTES:  
 1. ALL PIPING ON THIS ISO.  
 IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS  
 ARE FOR REFERENCE ONLY

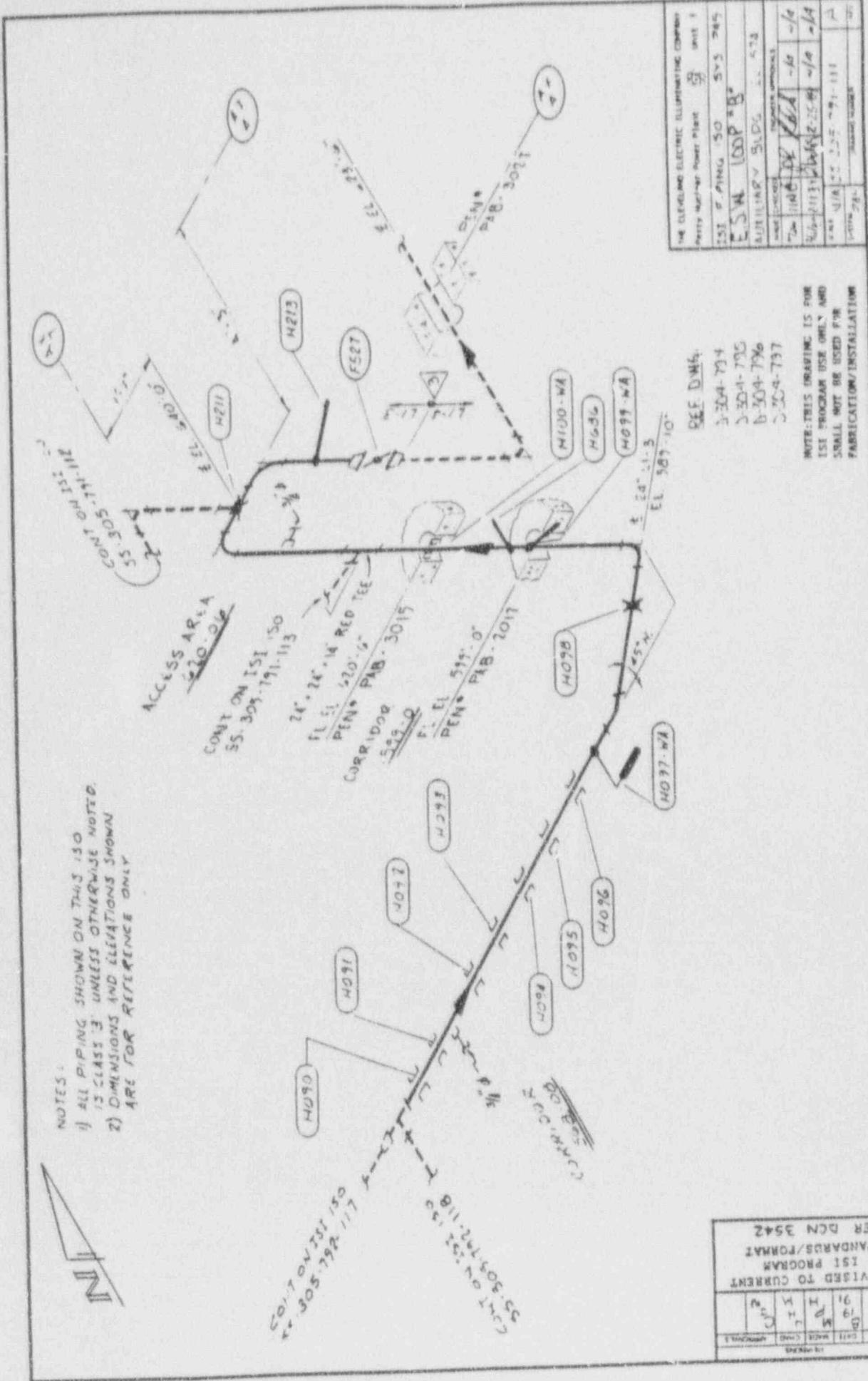
REF. DWG.  
 D-304-808

NOTE:  
 THIS PIPING IS LOCATED IN  
 THE EMERGENCY SERVICE WATER  
 PUMP HOUSE.

REVISIONS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NAME	Power Plant Unit 1
DATE	12-1-58
BY	J.P.
CHECKED	J.P.
SCALE	AS SHOWN
PROJECT NO.	55-305-701-110
DRAWING NO.	110
REV.	A

REV.	DATE	BY	REASON
A	12/1/58	J.P.	REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542



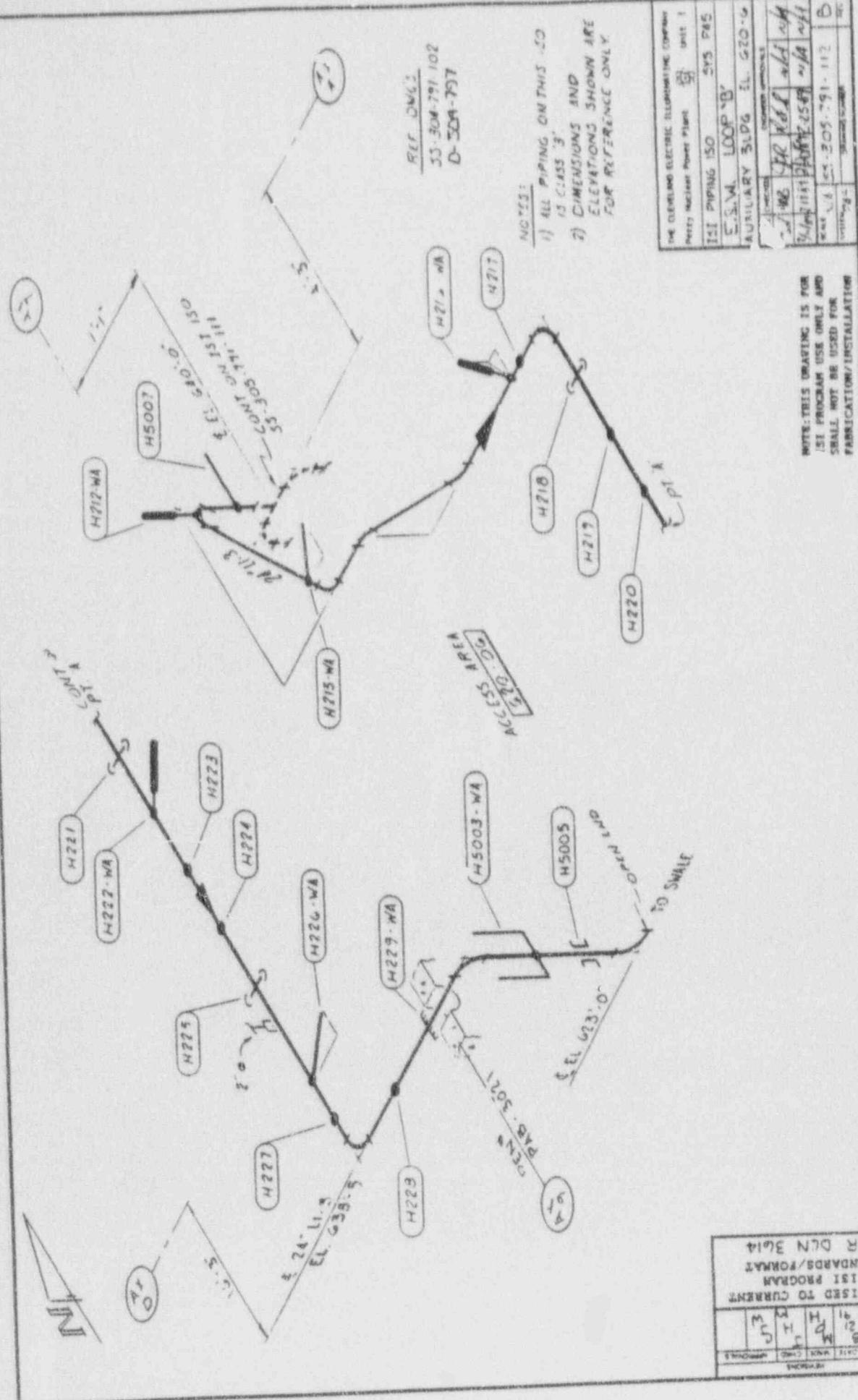
NOTES:  
 1) ALL PIPING SHOWN ON THIS IS 150  
 IS CLASS 3 UNLESS OTHERWISE NOTED.  
 2) DIMENSIONS AND ELEVATIONS SHOWN  
 ARE FOR REFERENCE ONLY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Project No.	Sheet No.	Scale	Date
55-305-791-113	50	5/8"	7/85
E.S.W. LOOP #8			
AUXILIARY SLDG. - 473			
PROJECT APPROVALS			
Drawn by	Checked by	Approved by	Date
J. J. [Signature]	[Signature]	[Signature]	7/85
Scale	Sheet No.	Project No.	Date
5/8"	50	55-305-791-113	7/85

SEE DWG.  
 3-304-794  
 3-304-795  
 6-304-796  
 3-304-797

NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3542	DATE	BY	APP'D
	9/85	J. J.	[Signature]



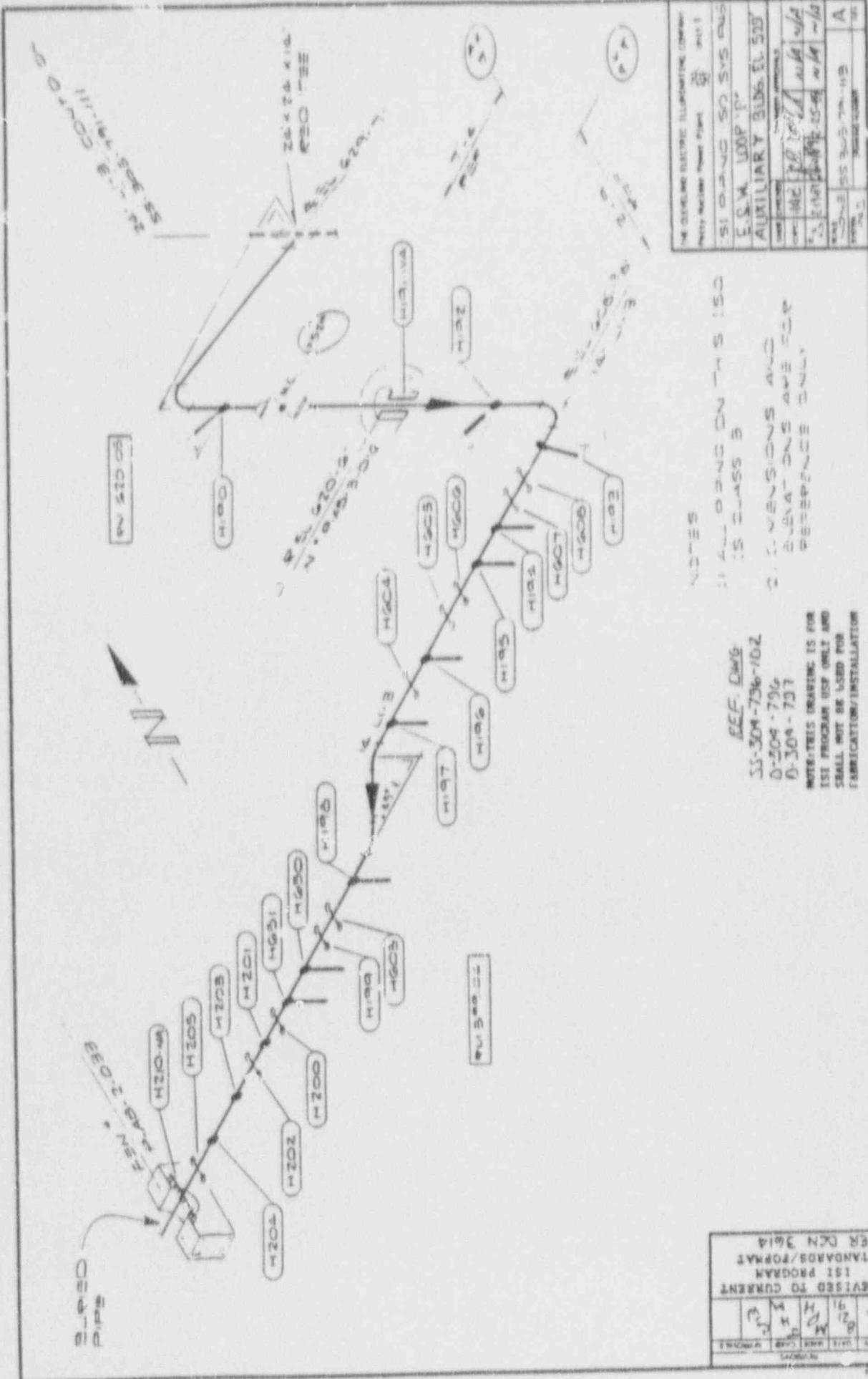
REF. DWG.  
 33-304-791-102  
 D-304-797

- NOTES:
- 1) ALL PIPING ON THIS IS CLASS 3
  - 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	PROJECT: National Power Plant	UNIT: 1
121 PIPING 150	595 PAS	
E.S.M. LOOP 'B'		
AUXILIARY BLDG	EL. 620'-6"	
DATE: 1/11/51	BY: J.C.S.	CHECKED: J.C.S.
SCALE: 1/8" = 1'-0"		

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DUN 3614		
DATE: 1/11/51	BY: J.C.S.	CHECKED: J.C.S.
DATE: 1/11/51	BY: J.C.S.	CHECKED: J.C.S.
DATE: 1/11/51	BY: J.C.S.	CHECKED: J.C.S.



NOTES

1. ALL WORK ON THIS IS TO BE CLASS B
2. DIMENSIONS AND SPACINGS ARE FOR REFERENCE ONLY

SEE DWG  
 SS-304-726-702  
 D-304-726  
 D-304-727

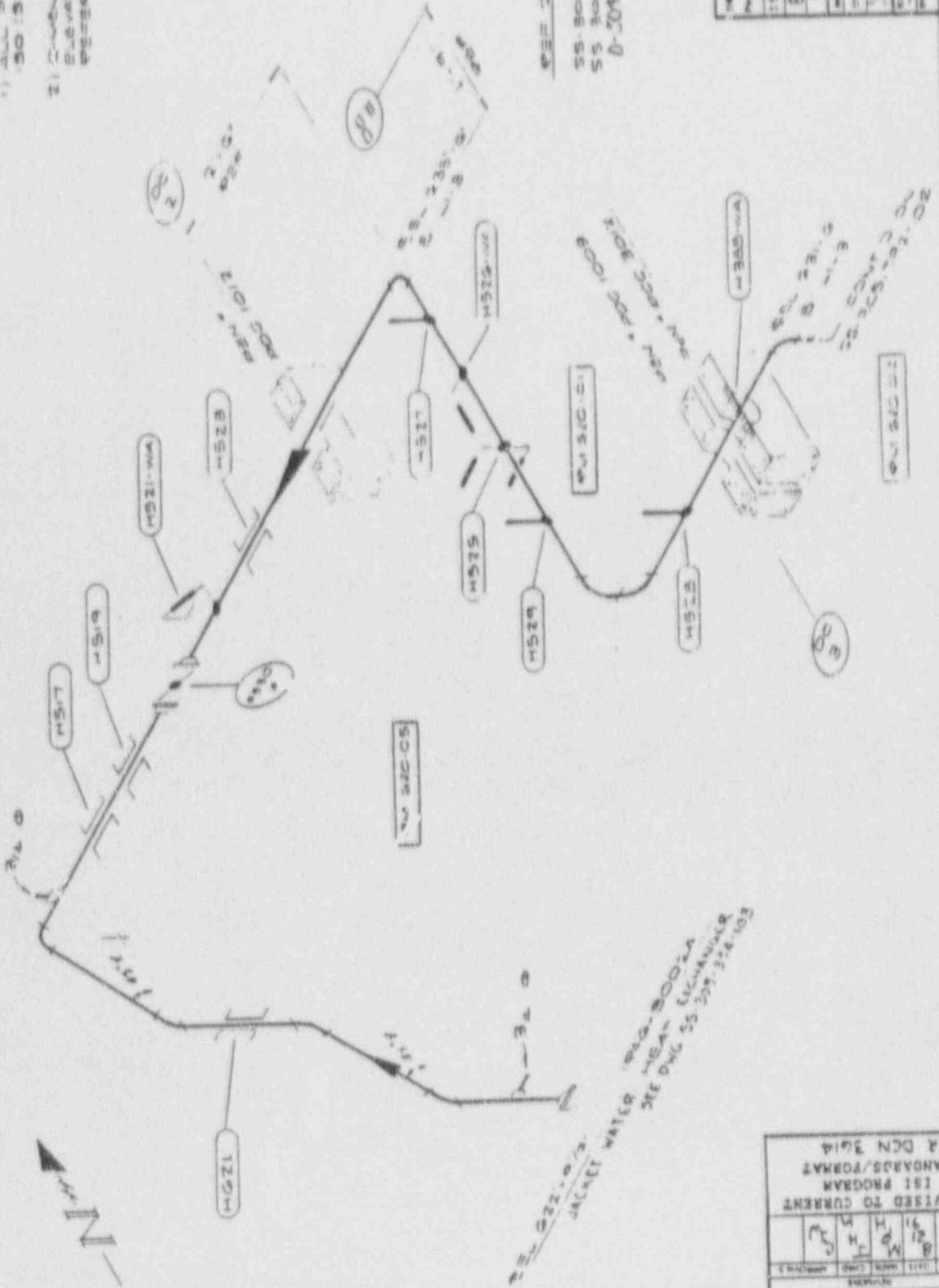
NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REV.	DATE	BY	CHKD.	APP'D.	REVISIONS	DESCRIPTION
1						
2						
3						
4						

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3614

NOTES

- 1) ALL BOND ON T-5
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY



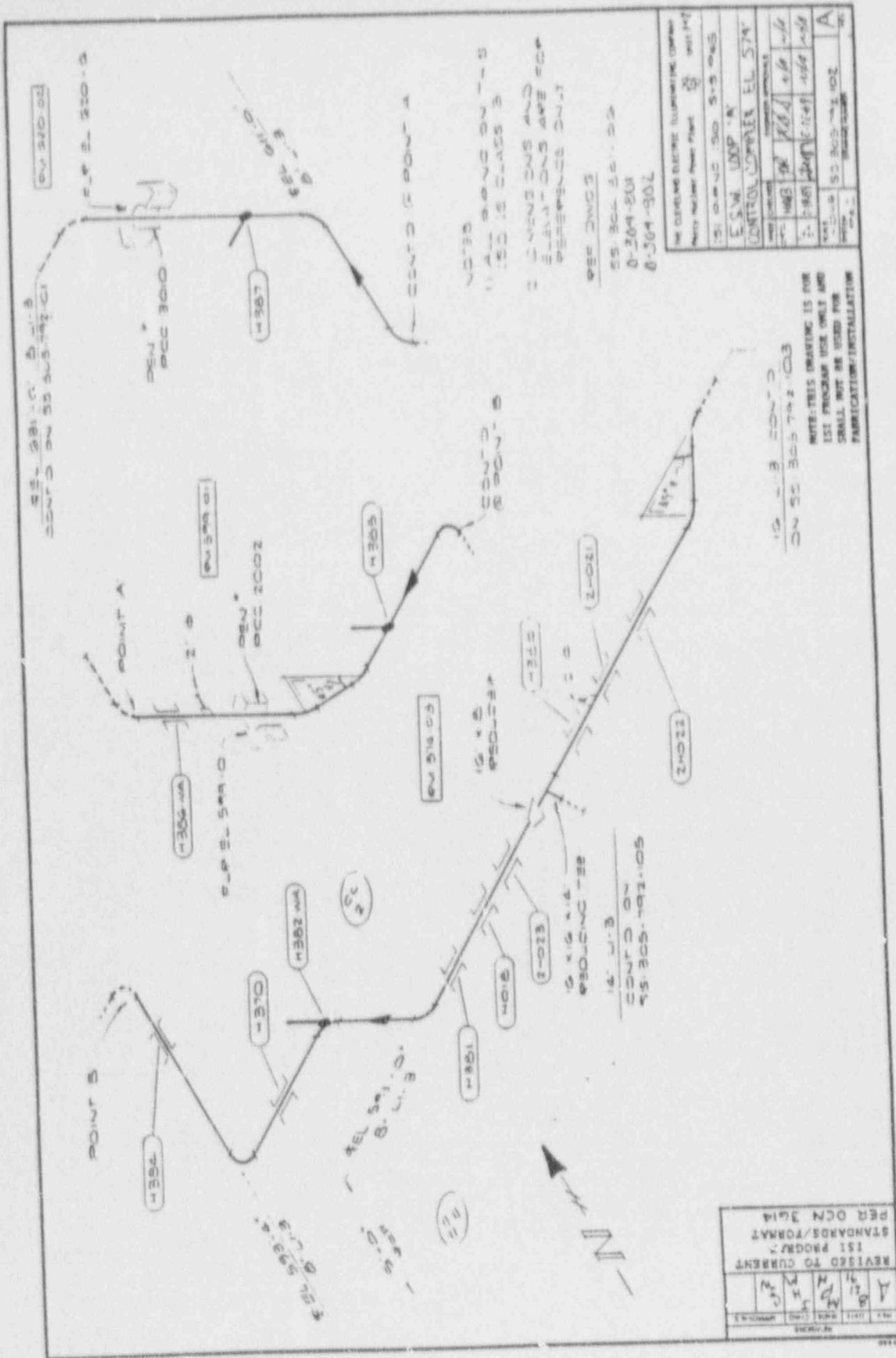
REF DWG S  
 SS 304-803-02  
 SS 304-801-00  
 D-304-803

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE OPENING ELECTRIC ILLUMINATING COMPANY			
New York, New York			
PROJECT	SS 304-803-02		
DATE	10/1/58		
BY	E. S. W. 100P/W		
CHECKED	D. G. EL 620		
APPROVED			
REVISIONS			
NO.	DATE	BY	REASON
1	10/1/58	E. S. W.	ISSUE FOR FABRICATION
2	10/1/58	D. G. EL	ISSUE FOR FABRICATION
3	10/1/58	E. S. W.	ISSUE FOR FABRICATION
4	10/1/58	E. S. W.	ISSUE FOR FABRICATION
5	10/1/58	E. S. W.	ISSUE FOR FABRICATION
6	10/1/58	E. S. W.	ISSUE FOR FABRICATION
7	10/1/58	E. S. W.	ISSUE FOR FABRICATION
8	10/1/58	E. S. W.	ISSUE FOR FABRICATION
9	10/1/58	E. S. W.	ISSUE FOR FABRICATION
10	10/1/58	E. S. W.	ISSUE FOR FABRICATION

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3614

SEE DWG 55 307-374-102  
 MEAN ELECTRICAL  
 P.W. 300-2A  
 JACKET WATER



REVISED TO CURRENT  
151 PROGRAM  
STANDARDS/FORMAT  
PER OCM 3614

501-ED-500-55  
COND ON  
CAND

55-300-201-25  
0-204-201  
0-304-302

PER DWGS

COND ON  
CAND

55-300-201-25  
0-204-201  
0-304-302

PER DWGS

COND ON  
CAND

55-300-201-25  
0-204-201  
0-304-302

COND ON  
CAND

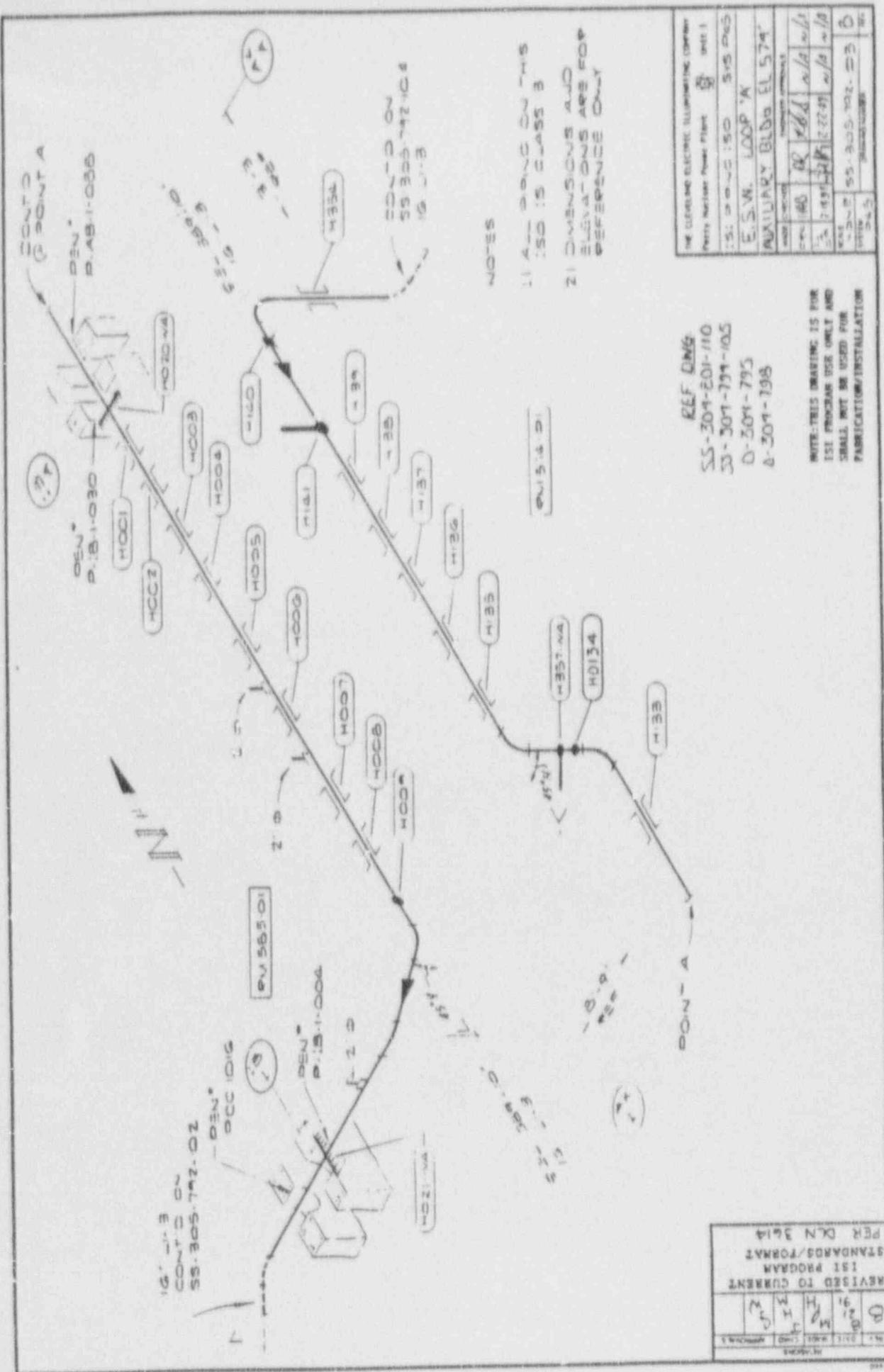
55-300-201-25  
0-204-201  
0-304-302

PER DWGS

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Newly Acquired Power Plant	
55-300-201-25	0-204-201
0-304-302	
E.S.M. LOOP 'A'	
CONTROL COMPLEX EL 574'	
REVISED TO CURRENT	151 PROGRAM
STANDARDS/FORMAT	PER OCM 3614
DATE	SCALE
BY	CHECKED
APP'D	DATE

NOTE: THIS DRAWING IS FOR  
151 PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISED TO CURRENT	151 PROGRAM	STANDARDS/FORMAT	PER OCM 3614
A	M	M	M
B	M	M	M
C	M	M	M
D	M	M	M
E	M	M	M
F	M	M	M
G	M	M	M
H	M	M	M
I	M	M	M
J	M	M	M
K	M	M	M
L	M	M	M
M	M	M	M
N	M	M	M
O	M	M	M
P	M	M	M
Q	M	M	M
R	M	M	M
S	M	M	M
T	M	M	M
U	M	M	M
V	M	M	M
W	M	M	M
X	M	M	M
Y	M	M	M
Z	M	M	M



**NOTES**

- 1) ALL WORK ON THIS IS TO BE CLASS B
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

ENCL 5.4 D

**REF DING**  
 SS-304-201-110  
 SS-304-794-105  
 D-304-795  
 A-304-796

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

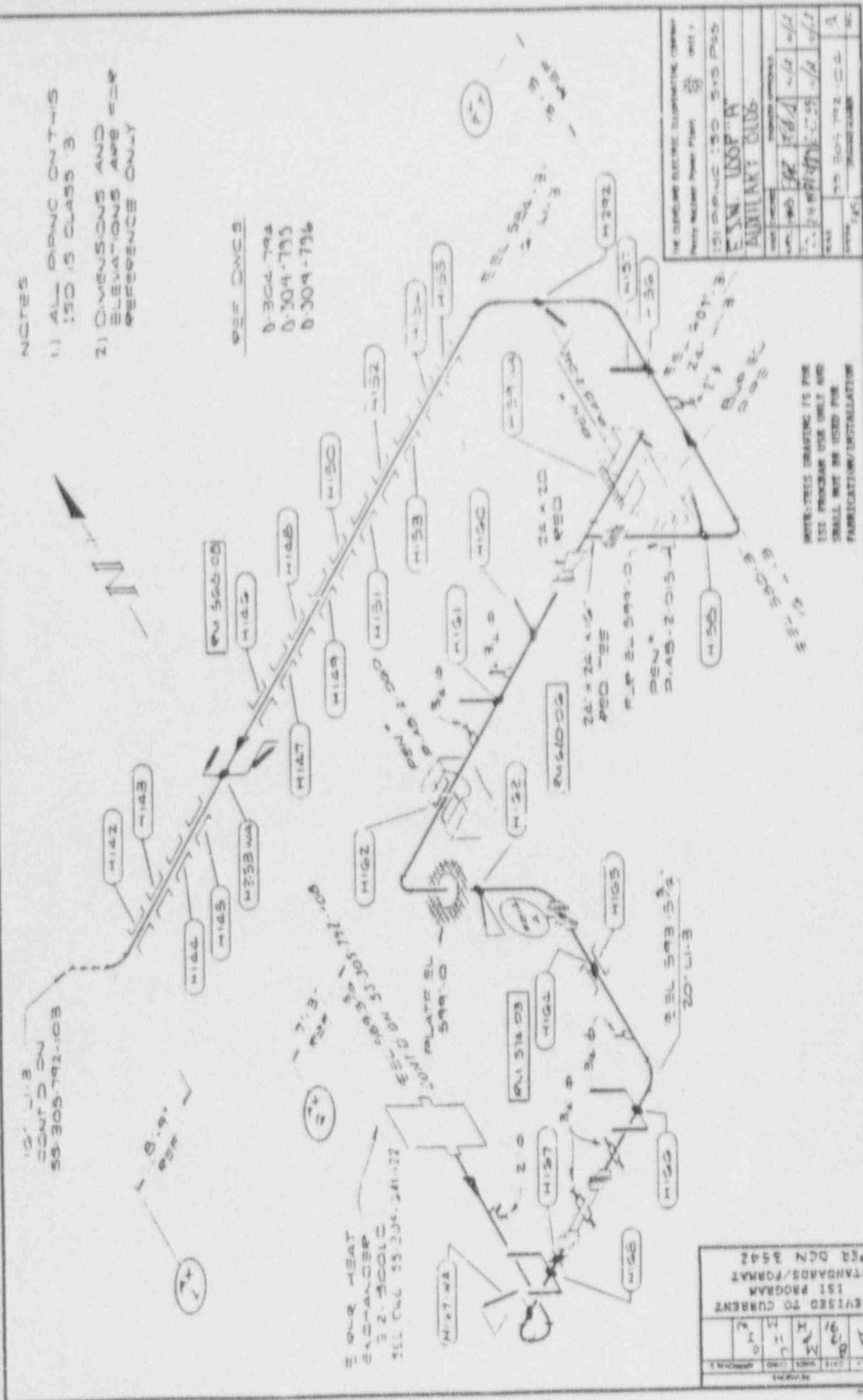
THE LEEVING ELECTRIC ILLUMINATING COMPANY	
Project Name: Point A	Sheet: 1
Date: 10-15-50	Scale: 5/8" = 1'-0"
E.S.W. LOOP 'K'	
AUXILIARY BLDG EL 574'	
NO.	REV.
1	10/15/50
2	12/27/50
3	1/10/51
4	5/5-305-792-23
5	5/5-305-792-23

REVISOR	DATE	REVISION
D	10/15/50	ISSUED FOR PERMIT
M	11/15/50	REVISED TO CURRENT STANDARDS/FORMAT
H	12/27/50	REVISED TO CURRENT STANDARDS/FORMAT
E	1/10/51	REVISED TO CURRENT STANDARDS/FORMAT

NOTES  
 1) ALL DIMENSIONS ON THIS  
 DRAWING ARE TO CENTER UNLESS  
 SPECIFICALLY NOTED OTHERWISE.

2) DIMENSIONS AND  
 ELEVATIONS ARE TO  
 FINISH SURFACE UNLESS  
 OTHERWISE NOTED.

SEE OTHERS  
 D-304-794  
 D-304-795  
 D-304-796



THE FOLLOWING ELECTRICAL INSTALLATIONS COMPARE  
 WITH THE POWER PLANT

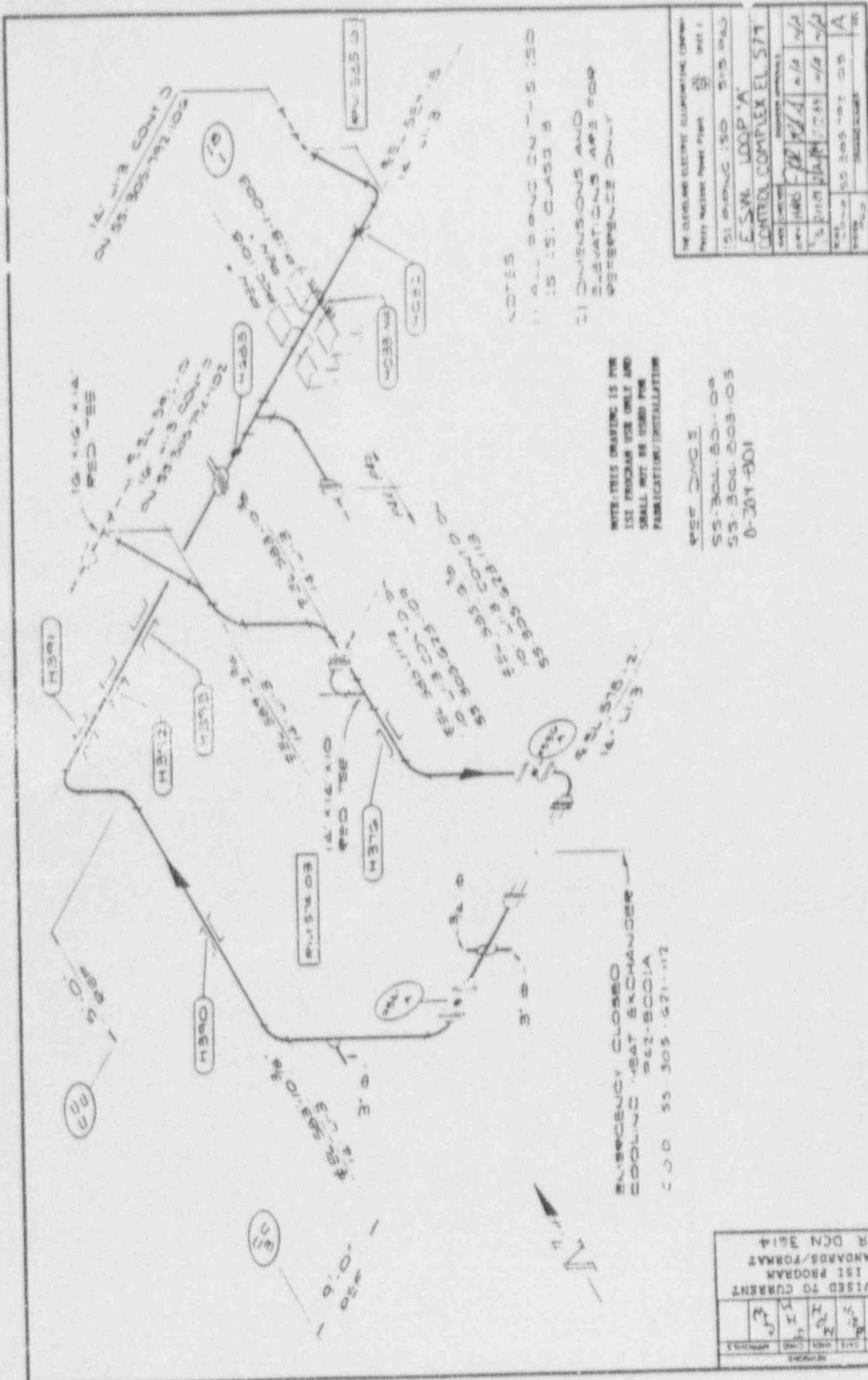
NO.	DATE	BY	REVISIONS
1	1/24/60	[Signature]	1/10
2	1/28/60	[Signature]	1/10
3	2/1/60	[Signature]	1/10
4	2/2/60	[Signature]	1/10
5	2/3/60	[Signature]	1/10
6	2/4/60	[Signature]	1/10

POWER PLANT  
 AUXILIARY BUS

NOTE: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT  
 STANDARDS/FORMATS  
 PER DCN 3542

NO.	DATE	BY	REVISION
A	1/2	[Signature]	1/10
B	1/1	[Signature]	1/10
M	1/1	[Signature]	1/10
H	1/1	[Signature]	1/10
L	1/1	[Signature]	1/10
T	1/1	[Signature]	1/10



NOTES  
 1) ALL DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

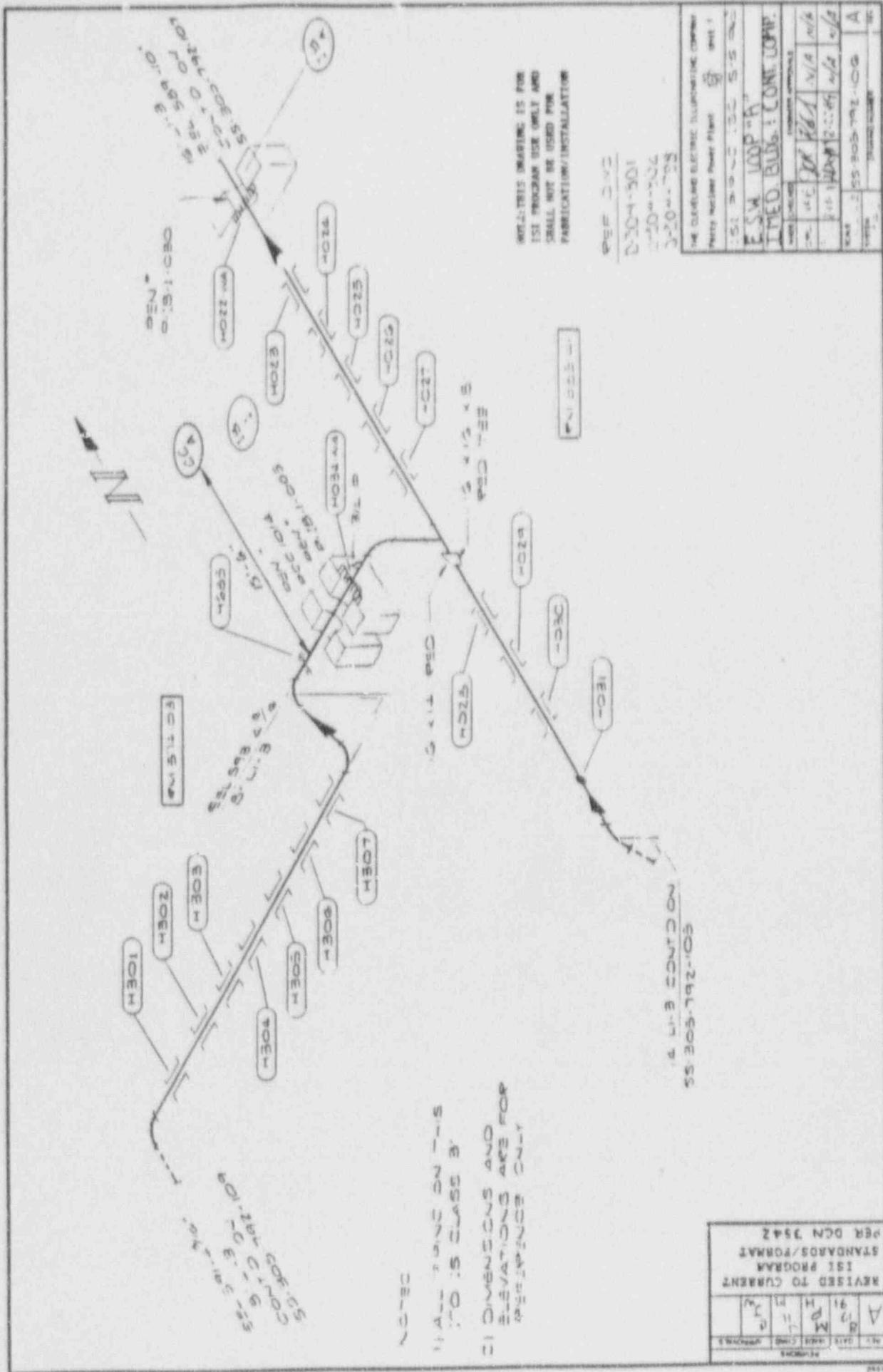
NOTE: THIS DRAWING IS FOR I&I PROGRAM USE ONLY AND SHALL NOT BE USED FOR PUBLICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Party Number	Sheet 1
55-304-203-05	5/15/55
E.S.M. LOOP 'A'	
CONTROL COMPLEX EL 579	
DATE	BY
5/15/55	J.P.A.

PER DMC 5  
 55-304-203-05  
 55-304-203-05  
 0-204-001

EMERGENCY CLOSED  
 COOLING WATER EXCHANGER  
 942-SCC1A  
 C.J.D. 55-305-621-112

REVISED TO CURRENT	A
STANDARDS/FORMAT	B
PER DCM 3614	C



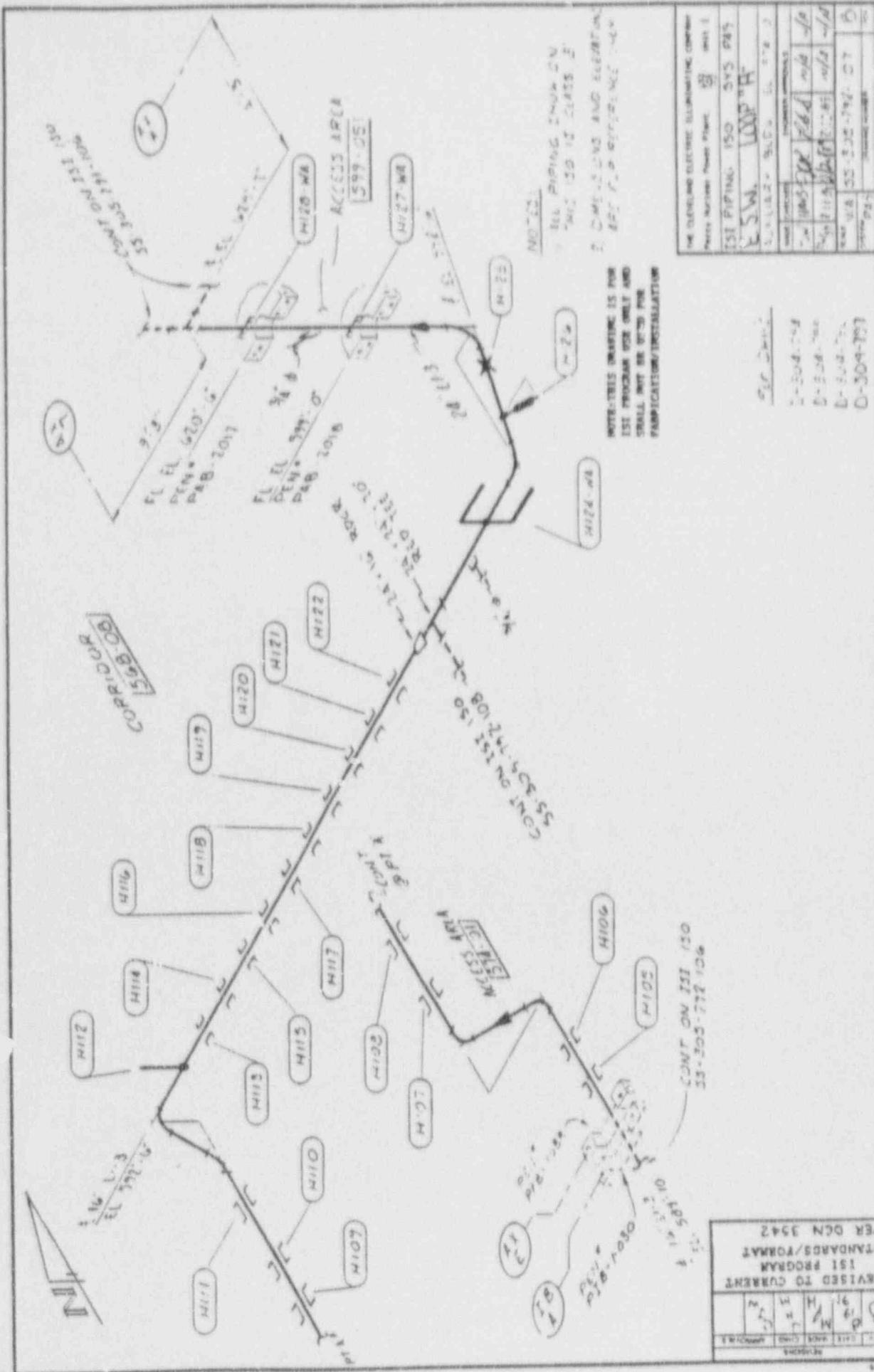
THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

PER DDC  
 D-204-501  
 100-100  
 100-100  
 100-100

THE DRAWING ELECTRIC ILLUSTRATING COMPANY	
Project Number: 100-100	Sheet: 1
E.S.W. LOOP "A"	
T.M.D. BLDG. 1 CONT. LOOP	
DATE: 10/18/61	BY: J.W.
SCALE: 1/8" = 1'-0"	PROJECT NUMBER: 100-100
REV: 1	DATE: 10/18/61
REV: 2	DATE: 10/18/61
REV: 3	DATE: 10/18/61
REV: 4	DATE: 10/18/61
REV: 5	DATE: 10/18/61
REV: 6	DATE: 10/18/61
REV: 7	DATE: 10/18/61
REV: 8	DATE: 10/18/61
REV: 9	DATE: 10/18/61
REV: 10	DATE: 10/18/61

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCM 3542
APR 1961
MAY 1961
JUN 1961
JUL 1961
AUG 1961
SEP 1961
OCT 1961
NOV 1961
DEC 1961
JAN 1962
FEB 1962
MAR 1962
APR 1962
MAY 1962
JUN 1962
JUL 1962
AUG 1962
SEP 1962
OCT 1962
NOV 1962
DEC 1962

REVISIONS AND REVISIONS ARE FOR  
 THE DESIGNING ENGINEER'S USE ONLY



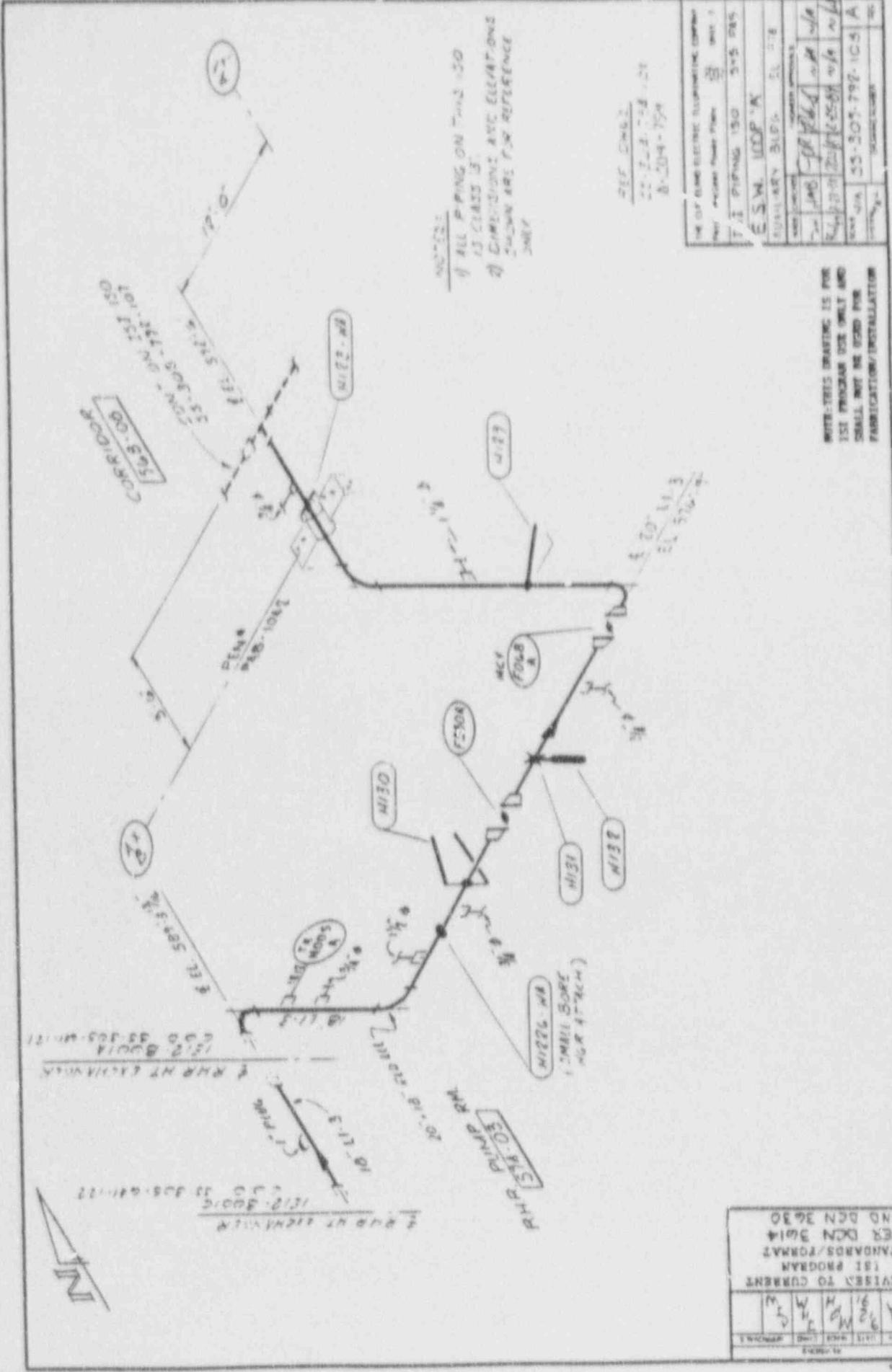
NOTES: THIS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

NOTE: ALL PIPING SHALL BE 1/2" DIA. 150 LB. CLASS. B. ALL PIPING SHALL BE 150 LB. CLASS. B. ALL PIPING SHALL BE 150 LB. CLASS. B.

ITEM	DESCRIPTION	QTY	UNIT
1	150 LB. CLASS. B. PIPING	100	FT.
2	150 LB. CLASS. B. PIPING	100	FT.
3	150 LB. CLASS. B. PIPING	100	FT.
4	150 LB. CLASS. B. PIPING	100	FT.
5	150 LB. CLASS. B. PIPING	100	FT.
6	150 LB. CLASS. B. PIPING	100	FT.
7	150 LB. CLASS. B. PIPING	100	FT.
8	150 LB. CLASS. B. PIPING	100	FT.
9	150 LB. CLASS. B. PIPING	100	FT.
10	150 LB. CLASS. B. PIPING	100	FT.

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3542



NOTES:  
 1) ALL PIPING ON THIS ISD IS CLASS B.  
 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY.

REF: 2062  
 22-204-104-01  
 8-20-9-75

THE GUY BOND ELECTRIC ILLUMINATING COMPANY	
Project: 2062	Sheet: 1
TYPE PIPING ISD 3"x5 DWS	
E.S.W. UOOP 'A'	
DATE: 8-20-9-75	SCALE: 1/8" = 1'-0"
DESIGNED BY: [Signature]	CHECKED BY: [Signature]
APPROVED BY: [Signature]	DATE: 8-20-9-75
PROJECT NO: 2062	SHEET NO: 1

NOTE: THIS DRAWING IS FOR USE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

RHR NT EXHIBIT  
 1512-B001A  
 C.D. 33-303-41121  
 10-11-3  
 1512-B001C  
 C.D. 33-303-41122

REV	DATE	BY	DESCRIPTION
A	8/20/75	[Signature]	REVISED TO CURRENT IBI PROGRAM STANDARDS/FORMAT PER DCN 3614 AND DCN 3630

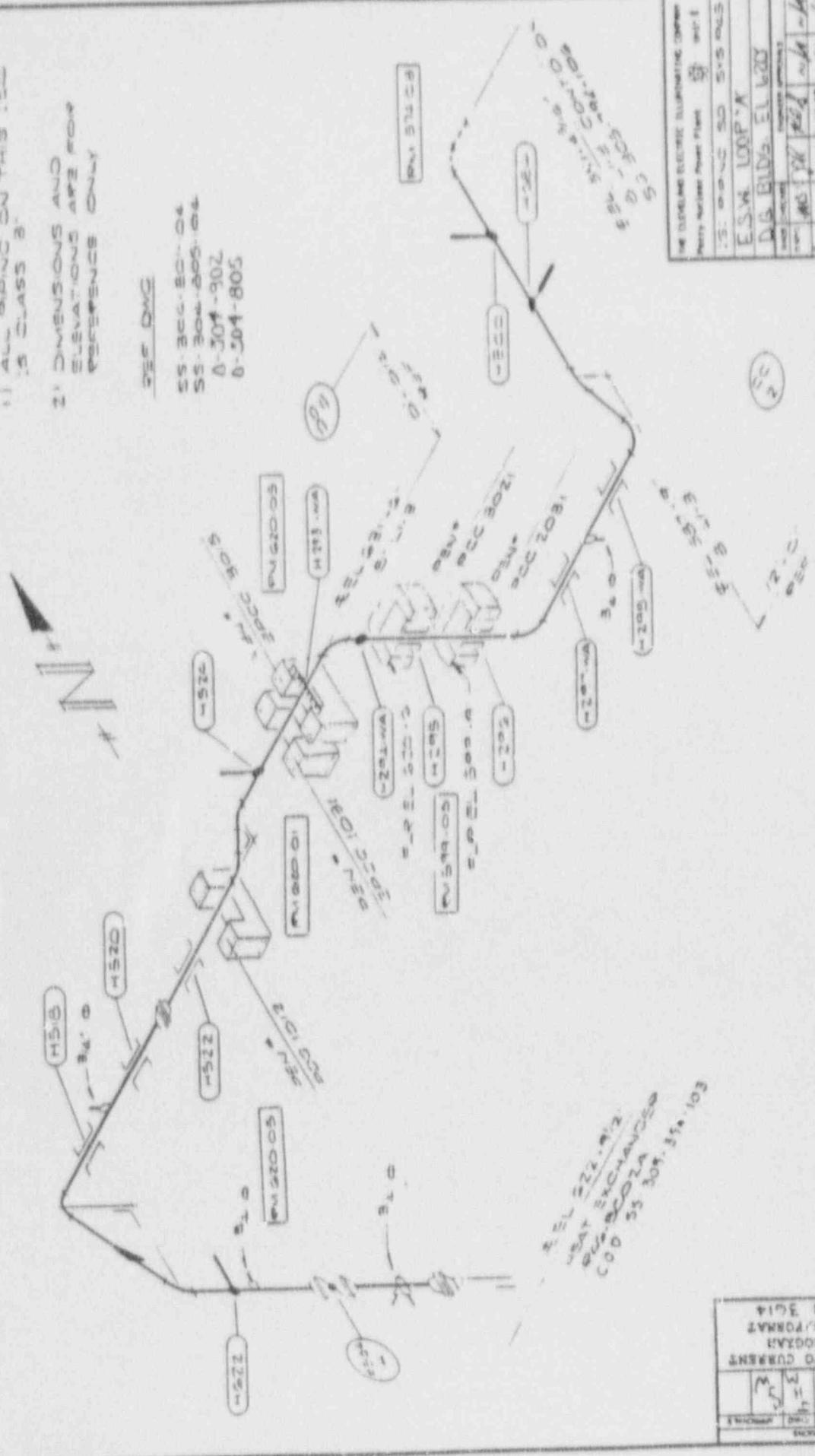
NOTES

1) ALL BRING ON THIS 120  
CLASS 3'

2) DIMENSIONS AND  
ELEVATIONS ARE FOR  
REFERENCE ONLY

SEE QMG

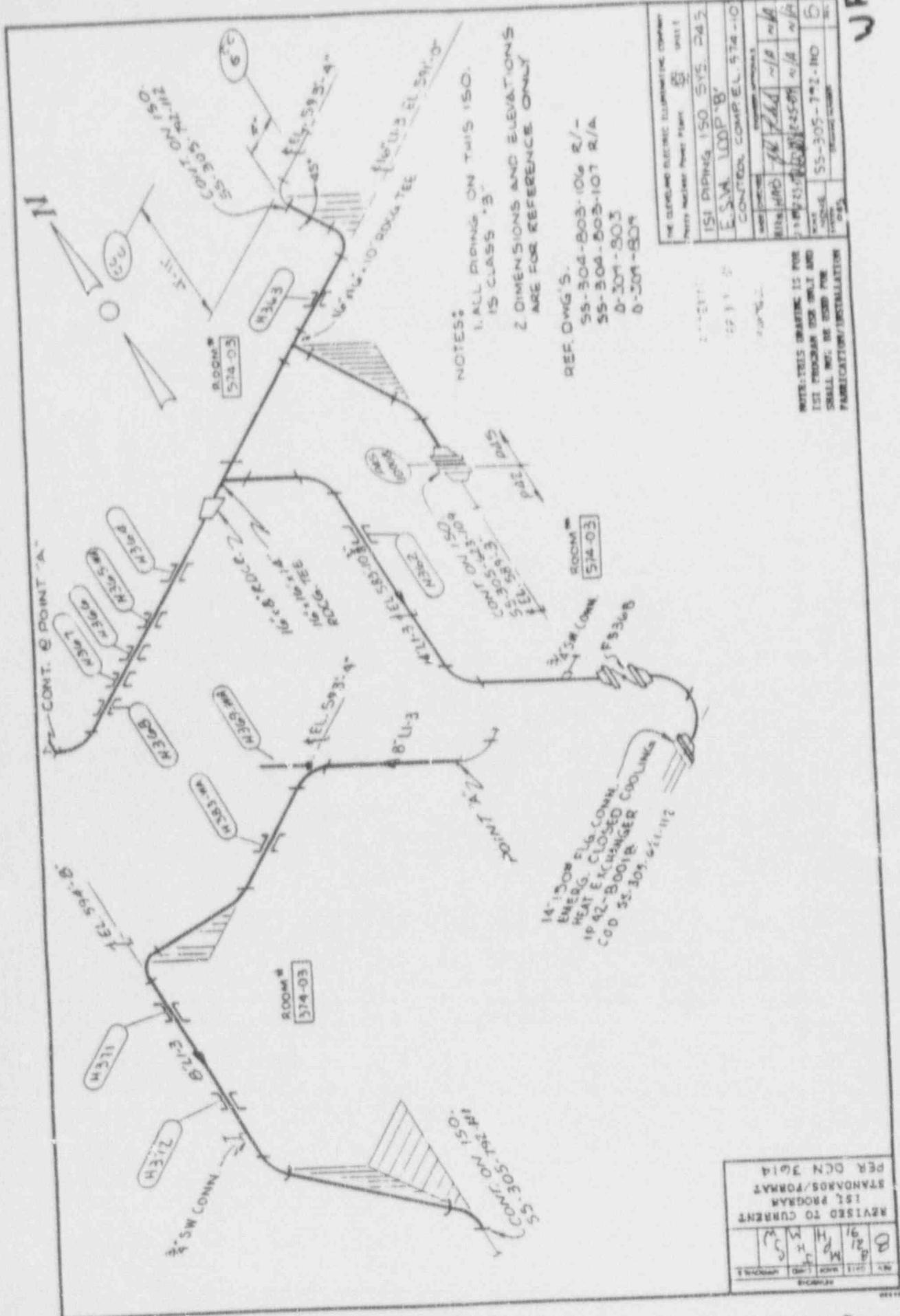
SS-304-805-04  
SS-304-805-04  
0-304-902  
0-304-805



THE DESIGNING ELECTRIC ILLUMINATING COMPANY	
Project Number	55-304-805-04
Sheet No.	1
E.S.W. LOOP 'A'	
D.B. BRIDGE EL 6207	
DATE	10/1/55
BY	W.H.
CHECKED BY	W.H.
APPROVED BY	W.H.
SCALE	AS SHOWN
PROJECT NO.	55-304-805-04
SHEET NO.	1
TOTAL SHEETS	1

NOTES: THIS DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

REVISION	DATE	BY	REASON
A	10/1/55	W.H.	REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DCN 3014
B			
M			
H			
S			
W			



2-407

Rev. 1

NOTES:  
 1. ALL PIPING ON THIS ISO.  
 IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS  
 ARE FOR REFERENCE ONLY

REF. DWG'S.  
 55-304-803-106 R/-  
 55-304-803-107 R/A  
 D-304-803  
 D-304-804

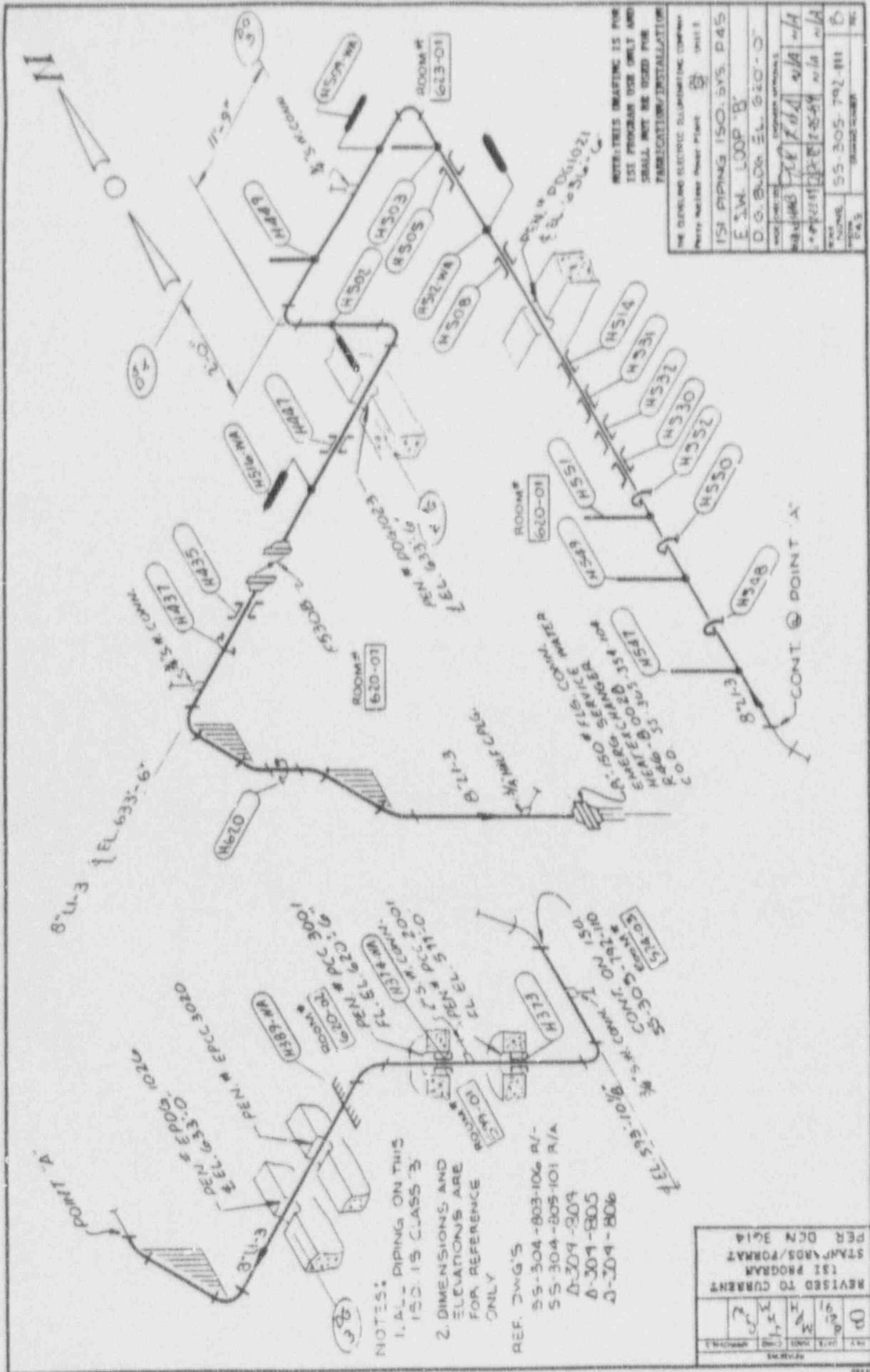
DESIGNED BY	DATE	REV	BY

ADVISED TO CURRENT  
 STANARDS/FORAM  
 1ST PROGRAM  
 PER DCN 3614

THE GEORGE ELECTRIC ILLUMINATING COMPANY	
Project Number	55-304-803
Sheet	5
ISI PIPING 150 SYS. PA 5	
E.S.M. LOOP "B"	
CONTROLLER COMP. EL. 574-10	
DATE	1/16/54
BY	J.P.A.
CHECKED	J.P.A.
APPROVED	J.P.A.
SCALE	AS SHOWN
PROJECT NUMBER	55-304-803
DATE	1/16/54

INTERPRETS DRAWING IS FOR  
 ISI PROGRAM FOR WALT AND  
 SKILL NO. DE 1000 PNE  
 FABRICATOR/INSTALLATION

WF



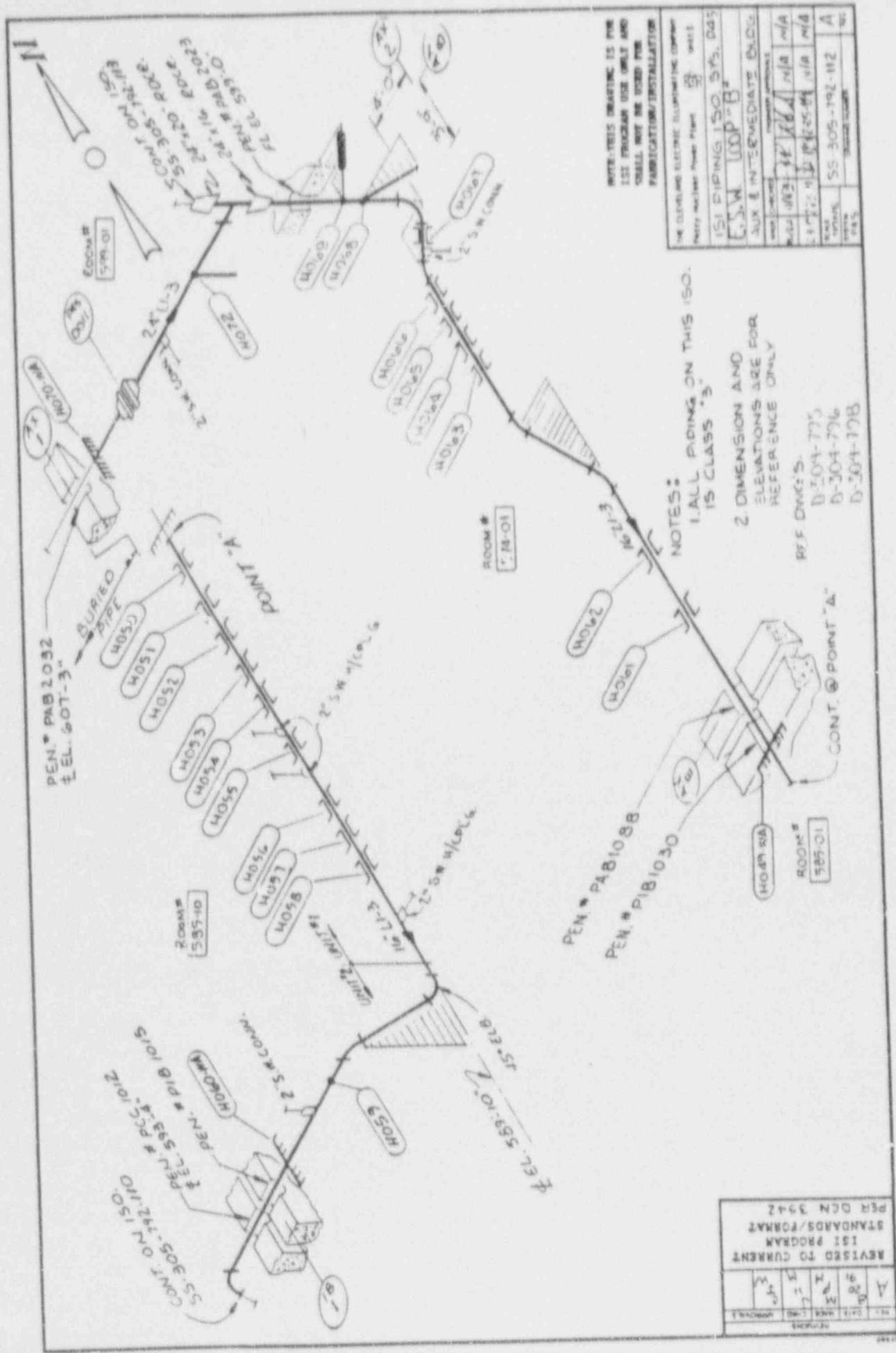
NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION.

THE SHERIDAN ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant - SHEET 1	
ISO PIPING ISO. SYS. P45	
E. SW. LOOP 'B'	
D. S. BLOCK EL. 620'-0"	
NO. OF SHEETS	16
SHEET NO.	1
DATE	7/1/81
BY	WJA
CHECKED	WJA
APPROVED	WJA
SCALE	AS SHOWN
PROJECT NO.	55-305-702-811
REV.	

NOTES:  
 1. ALL PIPING ON THIS IS ISO. 15 CLASS B.  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

REF. DWG'S  
 55-304-803-106 R/A  
 55-304-805-101 R/A  
 D-204-204  
 D-204-205  
 D-204-206

REVISED TO CURRENT	DATE	BY
ISO PROGRAM	7/1/81	WJA
STANDARD/FORMAT		
PER DCN 3614		



INTER-TRIS DRAWING IS FOR  
EST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
NEWLY FACTORY MADE PIPING 3/4" 19811

EST. NO.	55-305-192-112
REV.	
DATE	
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
SCALE	
TITLE	55-305-192-112
NO.	

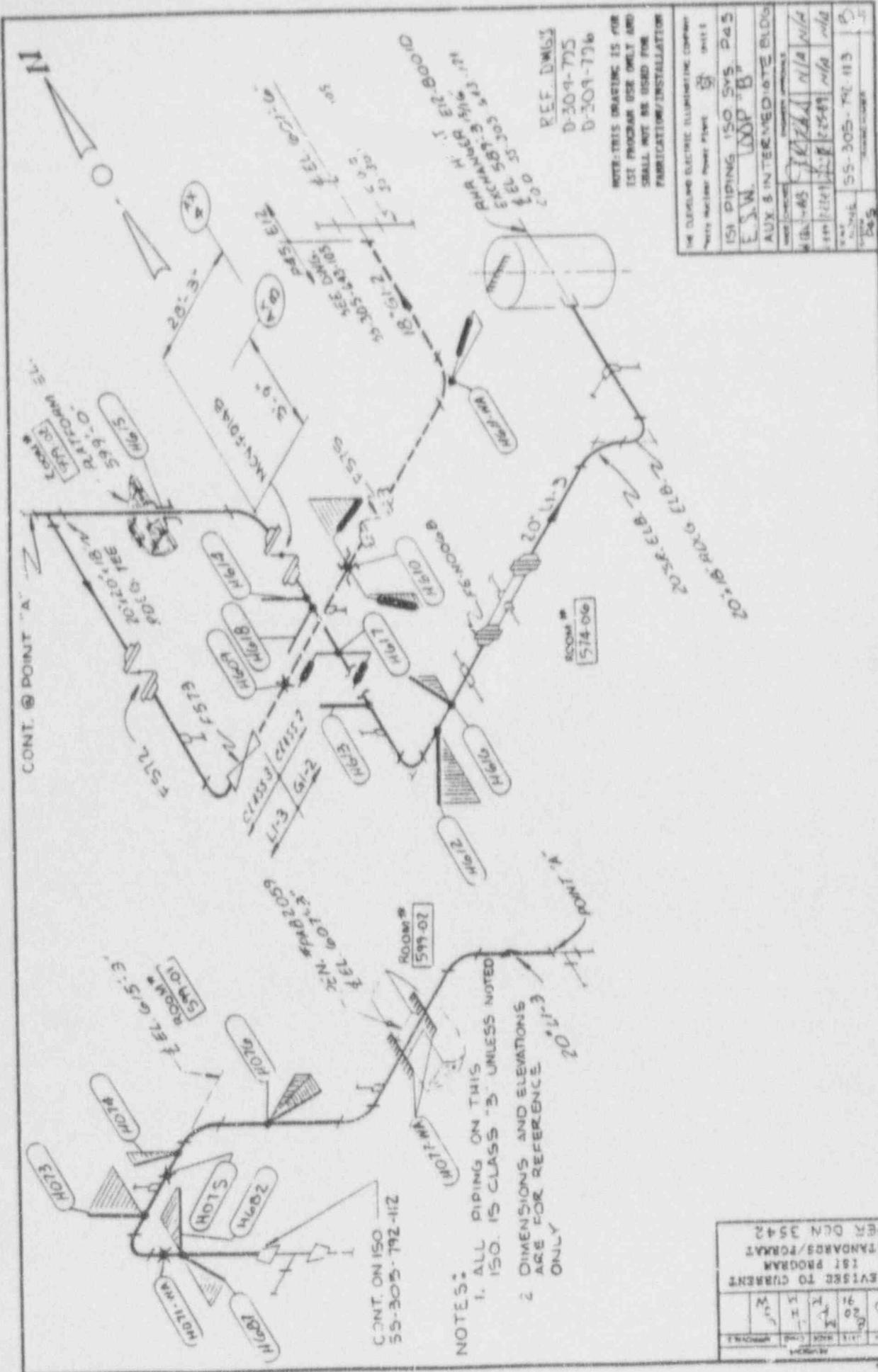
EST. NO. 55-305-192-112  
REV. 1  
DATE  
BY  
CHECKED  
APPROVED  
DESIGNED  
DRAWN  
SCALE  
TITLE

NOTES:  
1. ALL PIPING ON THIS ISO.  
IS CLASS "B"  
2. DIMENSION AND  
ELEVATIONS ARE FOR  
REFERENCE ONLY

REF DWG'S:  
D-304-775  
D-304-796  
D-304-798

REVISED TO CURRENT  
EST PROGRAM  
STANDARDS/FORMAT  
PER DCN 3442

NO.	1	2	3	4	5	6	7	8	9	10
DATE										
BY										
CHECKED										
APPROVED										



CONT. @ POINT 'A'

CONT. ON ISO 55-305-792-112

NOTES:  
 1. ALL PIPING ON THIS ISO IS CLASS 'B' UNLESS NOTED  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

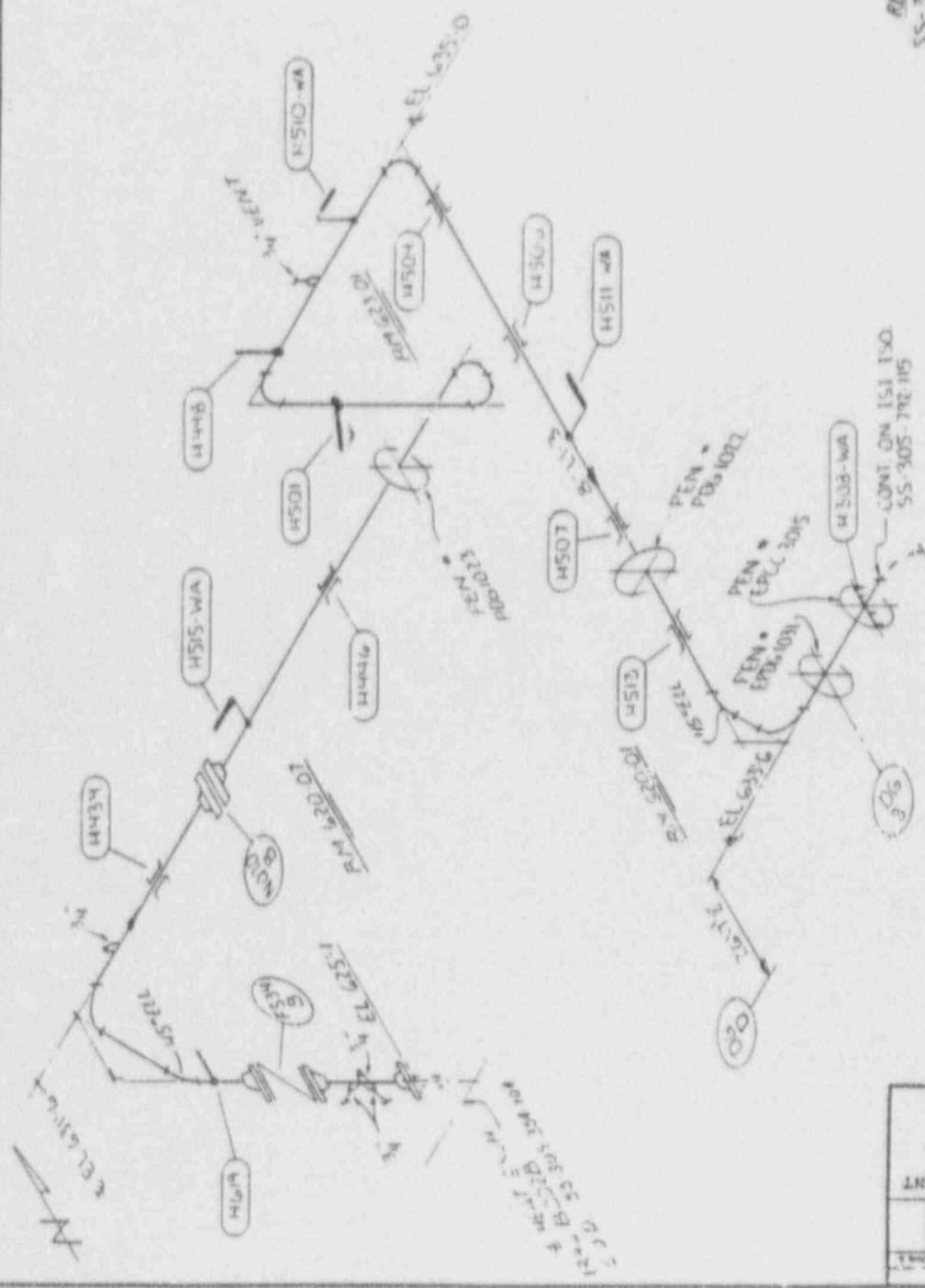
REF. DWGS  
 D-304-775  
 D-309-776

NOTE: THIS DRAWING IS FOR  
 1ST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 11506 Center Road, Cleveland, Ohio 44131  
 Phone (216) 786-1000  
 FAX (216) 786-1001

PROJECT NAME	ISO PIPING 150 SYS. P45
CLIENT	E.S.W. LOOP 'B'
LOCATION	AUX & INTERMEDIATE BLDG
DATE	11/14/88
SCALE	AS SHOWN
REV.	

REV.	DATE	BY	CHK	DESCRIPTION
1	11/11/88	MS	MS	REVISED TO CURRENT STANDARDS/FORMAT
2	11/11/88	MS	MS	REVISED TO CURRENT STANDARDS/FORMAT



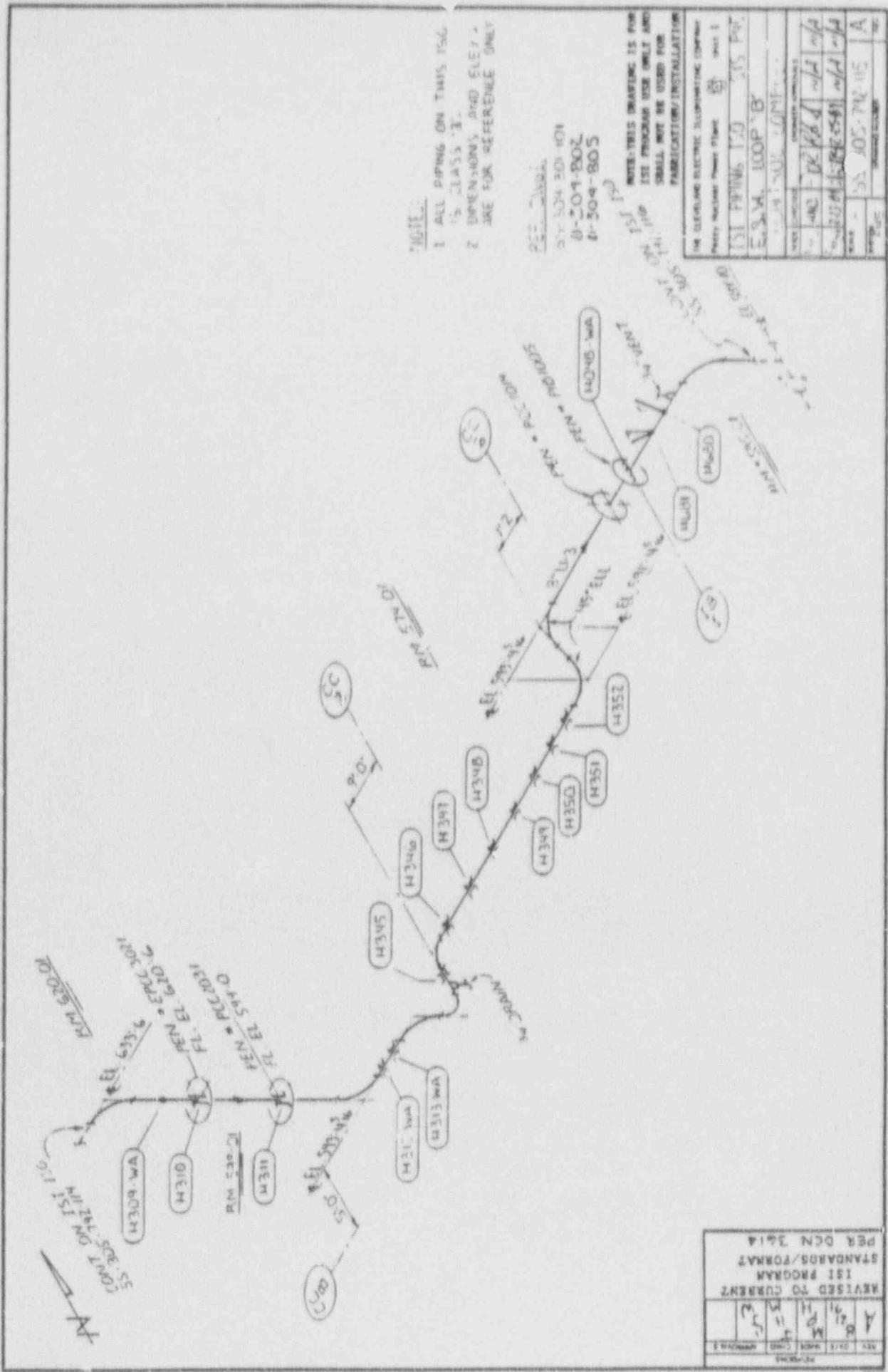
**NOTES:**  
 1. ALL PIPING ON THIS ISD IS  
 2. DIMENSIONS & ELEVATIONS  
 ARE FOR REFERENCE ONLY.

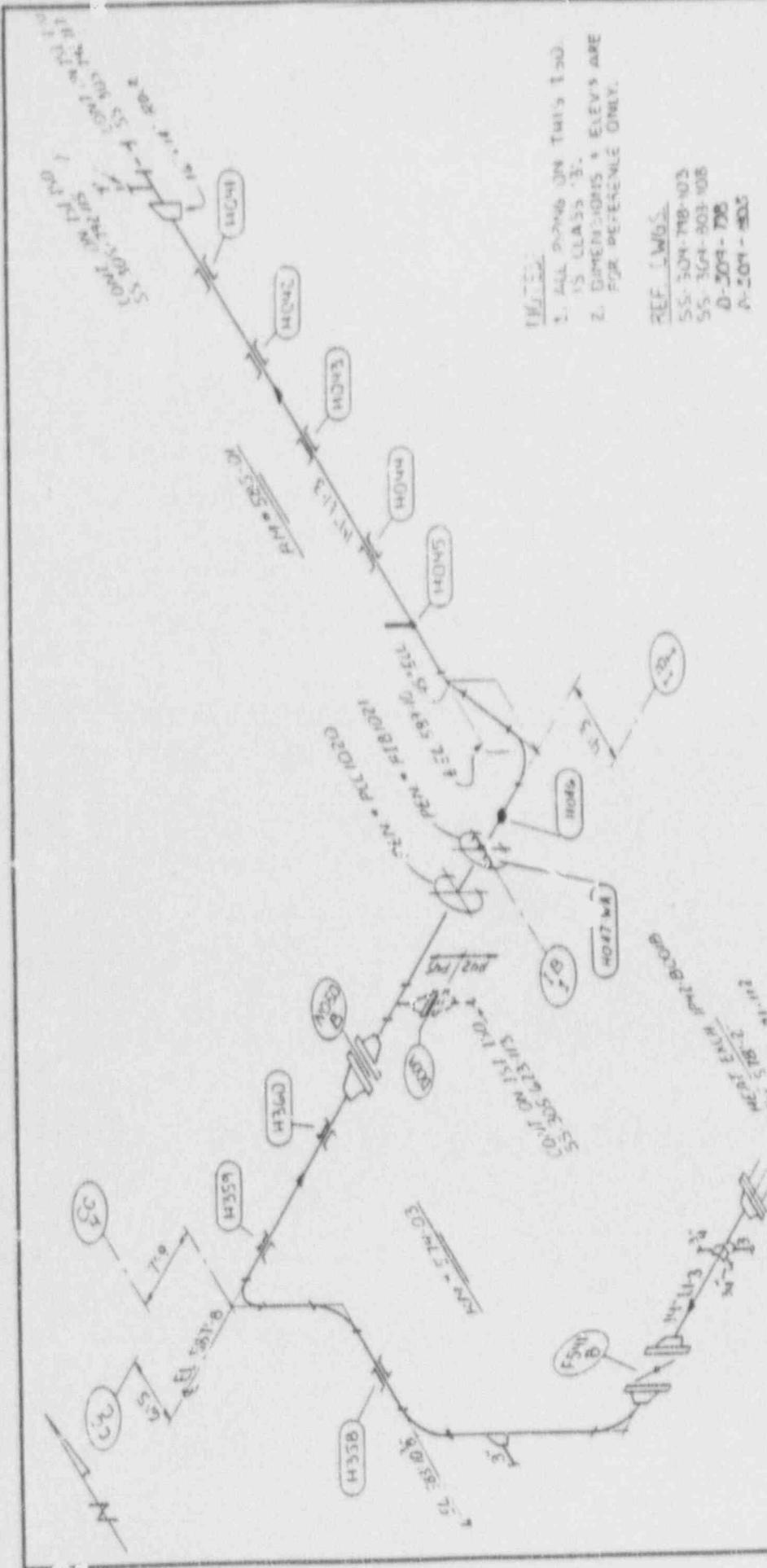
THE CLEARING ENGINEER'S SIGNATURE COMPANY		Sheet 1	
Project Name	Plant	Unit	
ISD PIPING ISD	515	515	515
E.S.M. LOOP 'B'			
DATE	DESIGNED	ELUCIDATED	REVISED

**REF. DWGS:**  
 SS-309-802-802  
 SS-309-805-802  
 D-309-802  
 D-309-805

NOTE: THIS DRAWING IS FOR  
 USE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

REVISED TO CURRENT					
STANDARDS/FORMAT					
PER DCN 3614					
AND DCN 3630					





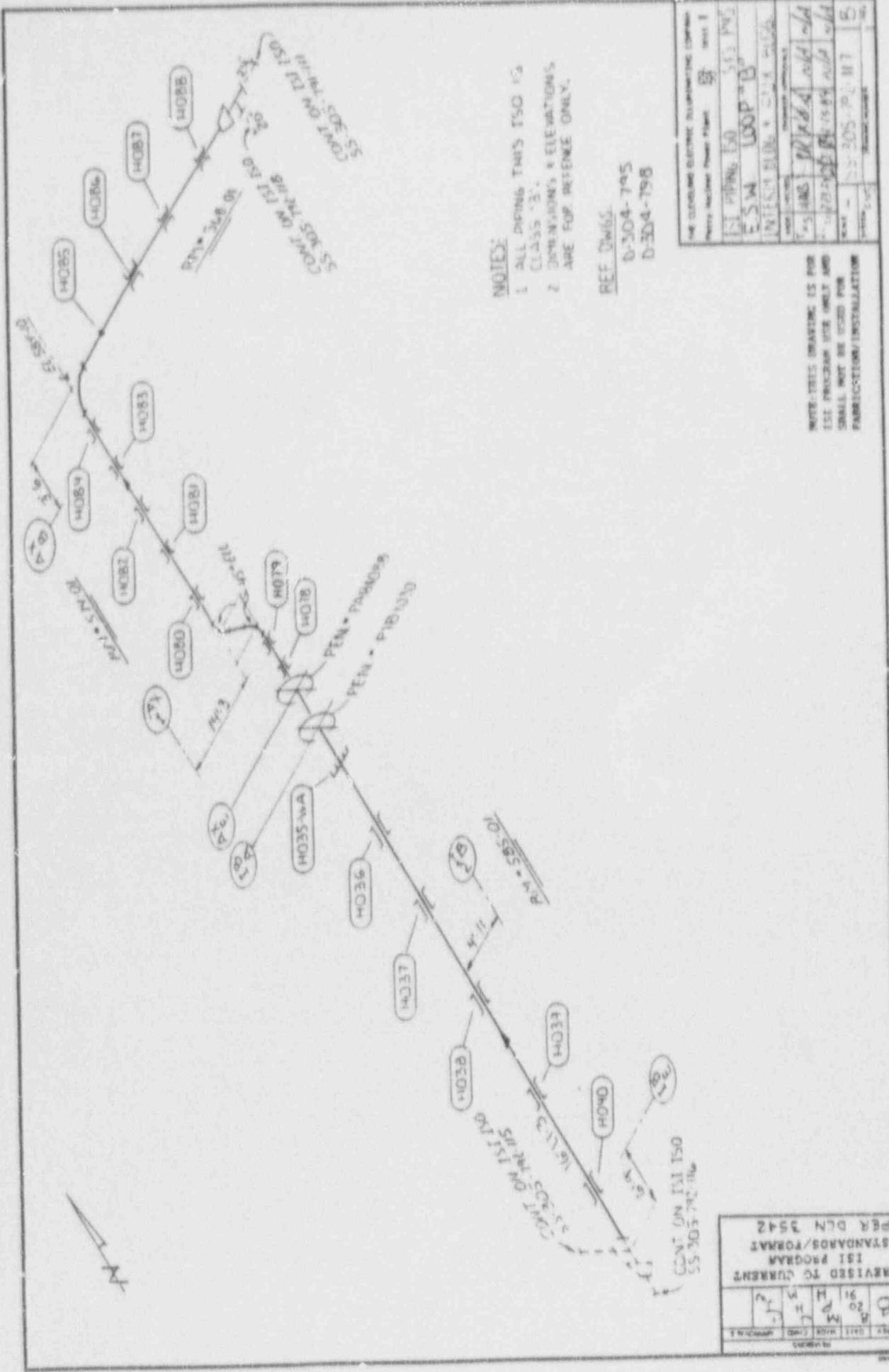
1. ALL PIPING ON THIS ISD.  
 IS CLASS 'B'.  
 2. DIMENSIONS & ELEVATIONS ARE FOR REFERENCE ONLY.

REF. L.W. 5.  
 55-304-798-103  
 55-304-803-108  
 D-304-798  
 A-304-803

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project No.	55-304-798-103
Sheet No.	1
Scale	AS SHOWN
Contract No.	55-304-798-103
Client	55-304-798-103
Engineer	55-304-798-103
Checker	55-304-798-103
Date	55-304-798-103

NOTES: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATORY INSTALLATION

REVISED TO CURRENT	REVISED TO CURRENT
STANDARDS/FORMAT	STANDARDS/FORMAT
PER DGN 3014	PER DGN 3014
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z



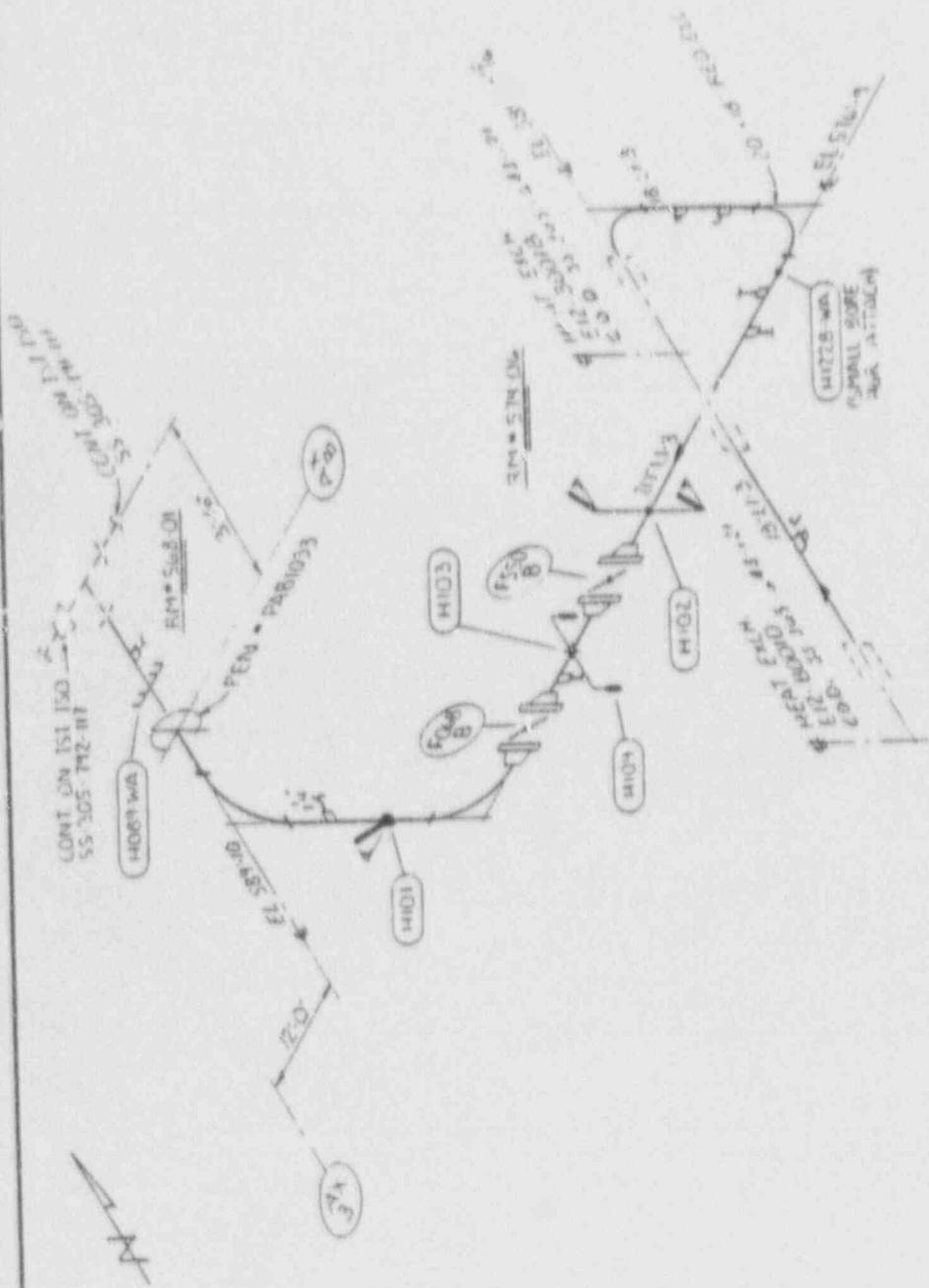
NOTES:  
 1. ALL DIMING THIS TSO IS CLASS 'B'.  
 2. DIMENSIONS & ELEVATIONS ARE FOR REFERENCE ONLY.

REF DWGS:  
 D-304-795  
 D-304-798

SEE DEVELOPING ELECTRICAL DRAWINGS FOR:	
PROJECT NUMBER	99
DATE	11/15/84
DESIGNED BY	W.D.A.
CHECKED BY	P.H.
INVESTIGATED BY	P.H.
DATE	11/15/84
PROJECT	SS-305-795-117
SCALE	1:1

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REV	DATE	BY	DESCRIPTION
1		W.D.A.	REVISED TO CURRENT IS1 PROGRAM STANDARDS/FORMAT PER DCN 3542



REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 5914  
 AND DCN 5930

DATE	BY	CHKD	APP'D
11/26/55	M	H	A

**NOTE**

- 1 ALL SPACING THIS ISO IS  
 1/4" MIN.
- 2 DIMENSIONS & ELEVATIONS  
 ARE FOR REFERENCE ONLY.

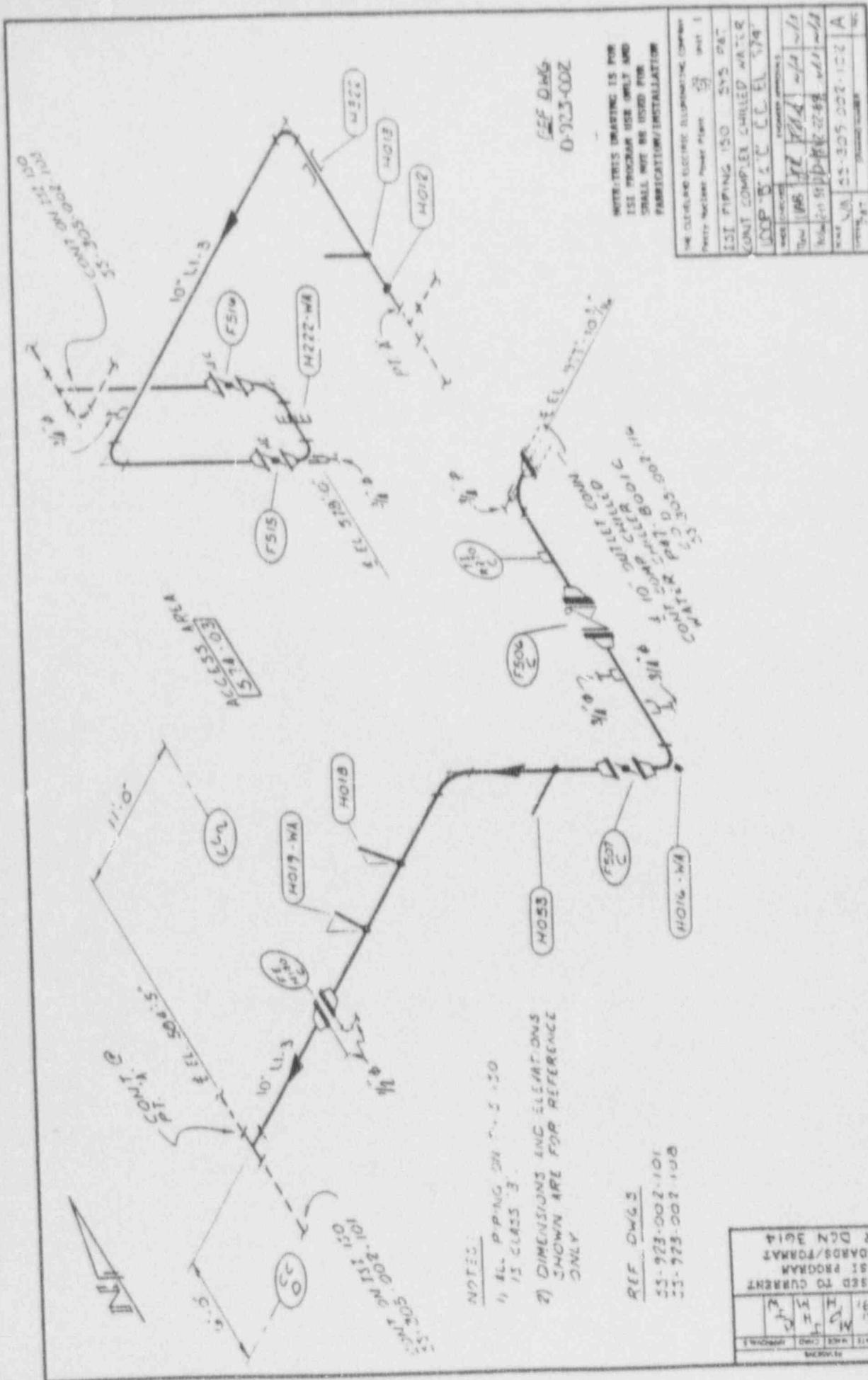
DCN 55-305-742-118  
 55-305-742-103  
 0-204-735

NOTE: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE FOLLOWING ELECTRIC ILLUSTRATING COMPANY  
 HAS BEEN APPROVED BY THE  
 NAVY FOR THE PREPARATION OF THIS DRAWING

PROJECT	ISSUE	DATE
151 PIPING, ISO	105	10/5/55
E.S.M. LOOP 'B'		
ALL BULBS		
NO. OF SHEETS	11	
SHEET NO.	10	
SCALE	AS SHOWN	
PROJECT NO.	55-305-742-118	
REV.	A	





REF DWG  
0-923-002

METRIC DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Pump Plant	Sheet: 53 of 57
ISI PIPING ISO SYS P&T	DATE: 11/13/84
CONT COMPILER CARLEW WATER	DESIGNED BY: JH
DOOR 5 2 3 13	SCALE: 1" = 30'
DATE: 11/13/84	PROJECT NUMBER: 55-305-002-102
REVISED TO CURRENT	
REVISIONS TO CURRENT	
PER DYN 3614	

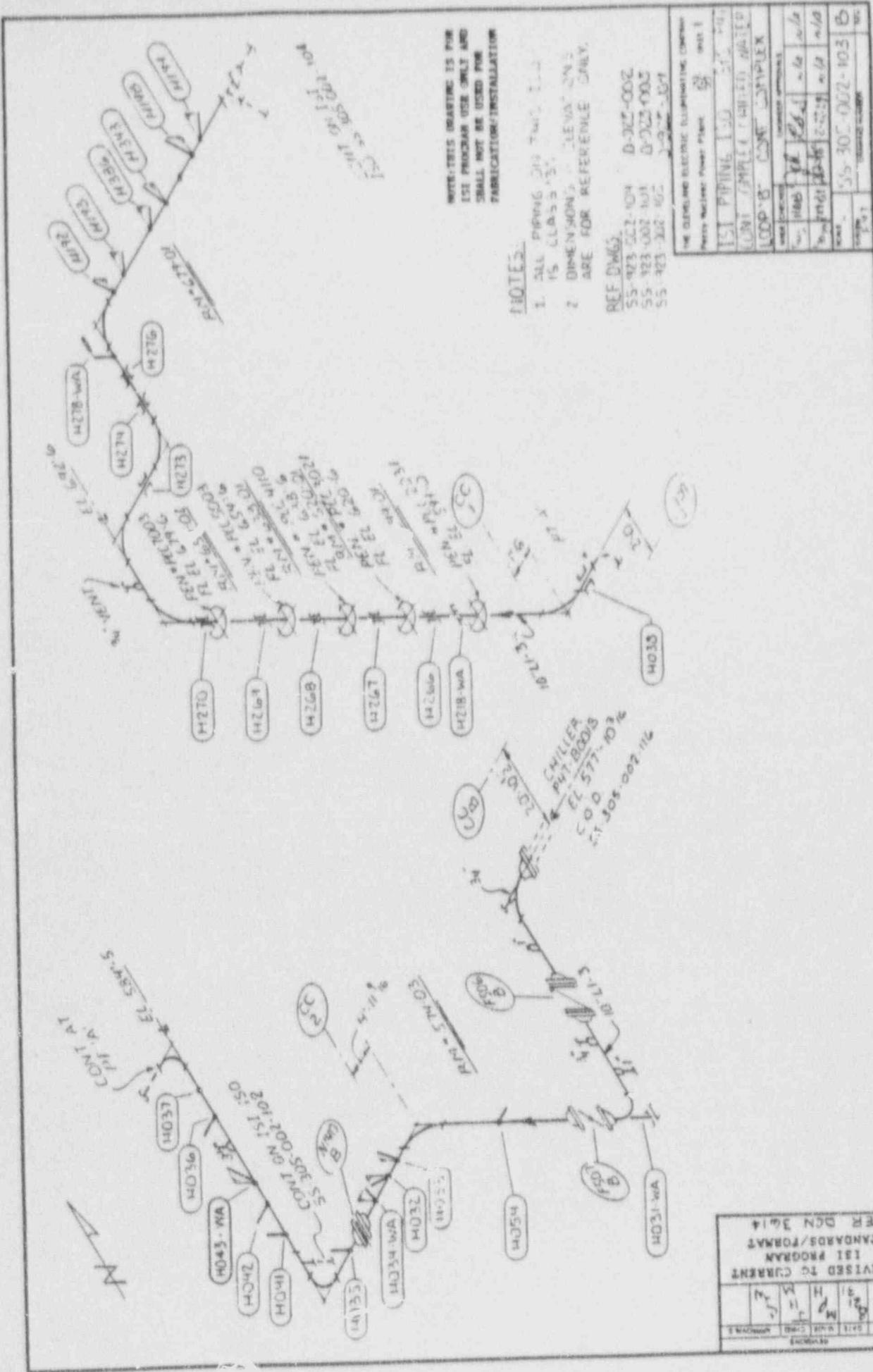
NOTES:

- 1) ALL PIPING DN 1.5 - 1.50 IS CLASS 'B'
- 2) DIMENSIONS AND ELEVATIONS SHOWN ARE FOR REFERENCE ONLY

REF DWG'S

55-923-002-101  
55-923-002-100

NO.	DATE	BY	CHKD	APPROVED
1		A	M	J
2		M	H	
3		H	K	
4		J	K	



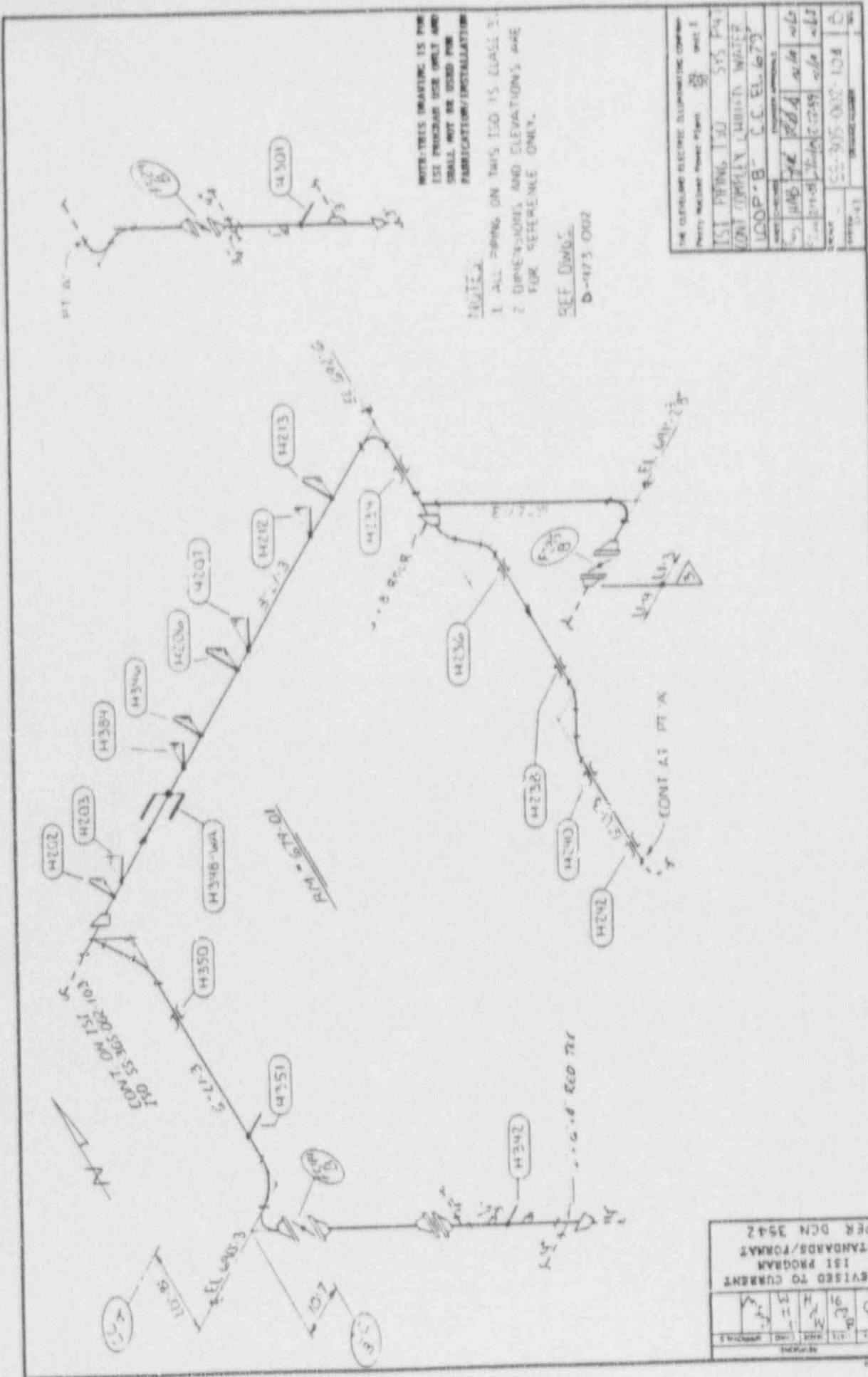
NOTES: THIS DRAWING IS FOR  
 THE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

- NOTES:**
1. ALL PIPING TO BE 1 1/2" CLASS 304L
  2. DIMENSIONS ARE GIVEN IN FEET AND INCHES ARE FOR REFERENCE ONLY.

REF DWGS:  
 55-423-002-104 D-202-002  
 55-423-002-101 D-202-002  
 55-423-002-102 D-202-002

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: <b>Power Plant</b>	Sheet: <b>103</b>
EST. PIPING 1 1/2" CLASS 304L	
CONT. PANELS (MATERIALS) MATED	
LOOP-B-CONE COMPILER	
DATE: <b>10/14/65</b>	BY: <b>JL</b>
CHECKED: <b>10/14/65</b>	BY: <b>ML</b>
SCALE: <b>1/8" = 1'-0"</b>	PROJECT NO: <b>55-307-002-103</b>
DRAWN BY: <b>JL</b>	DESIGNED BY: <b>ML</b>

REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT	
PER DCN 3614	
DATE:	BY:

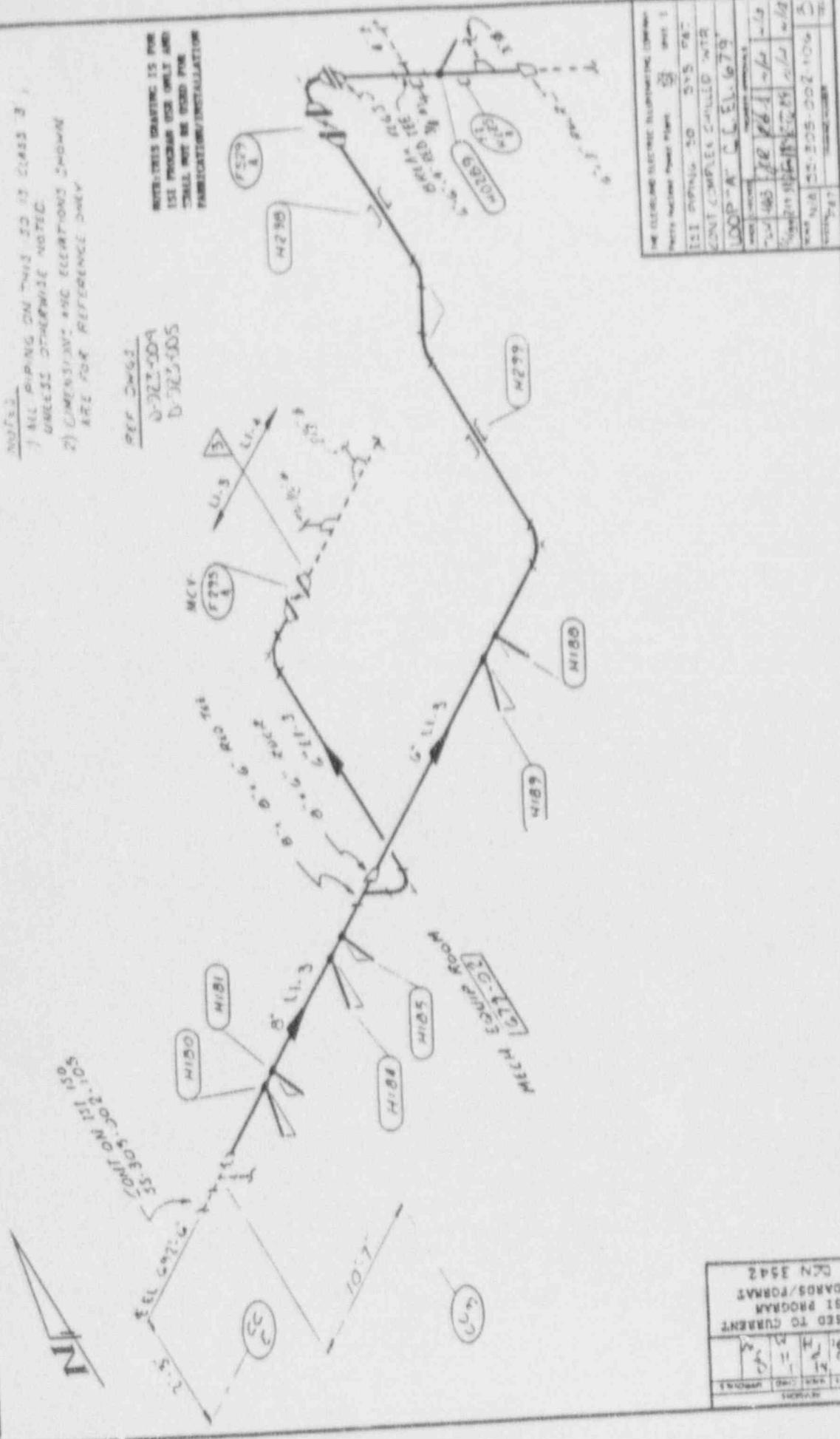




NOTES:  
 1) ALL PIPING ON THIS IS CLASS B  
 UNLESS OTHERWISE NOTED.  
 2) DIMENSIONS AND ELEVATIONS SHOWN  
 ARE FOR REFERENCE ONLY

PER DWG.  
 D-323-50A  
 D-323-505

THIS DRAWING IS FOR  
 USE PROGRAM FOR ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION



THE FOLLOWING ELECTRIC INSTRUMENTING COMPANY  
 HAS BEEN SELECTED FOR THIS PROJECT: **WESTINGHOUSE**

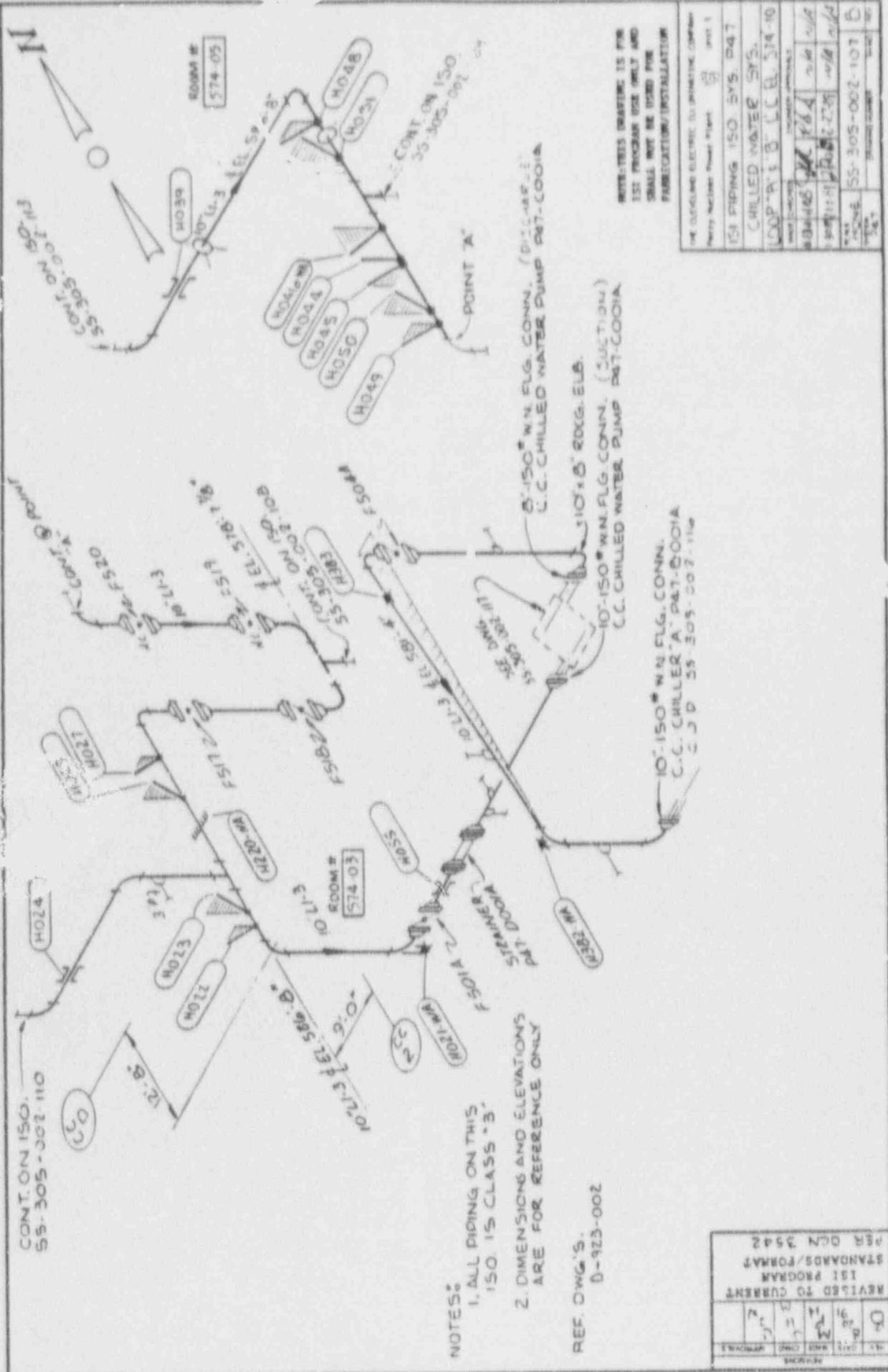
ISSUE NO.	DATE	BY	APP'D.
1	11/18/83	JR	WLB
2	12/18/83	WLB	WLB
3	01/25/84	WLB	WLB
4	02/25/84	WLB	WLB

PROJECT NAME: **DC-323-50A**

LOOP: **A C.E.L. 679**

REVISED TO CURRENT  
 191 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

DATE	BY	APP'D.
11/18/83	JR	WLB
12/18/83	WLB	WLB
01/25/84	WLB	WLB
02/25/84	WLB	WLB



NOTES: THIS DRAWING IS FOR  
 151 PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

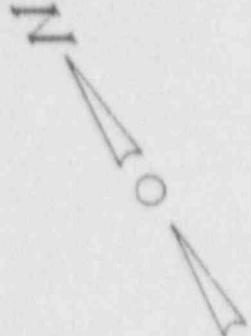
THE CLEVELAND ELECTRIC & MECHANICAL COMPANY	
Mechanical Piping 151 10/1/11	
151 PIPING 150 SYS. P47	
CHILLED WATER SYS.	
LOOP 'A' 10" C.C. EL. 514-10	
DATE	10/1/11
BY	J.P.
CHECKED	J.P.
DATE	10/1/11
PROJECT NUMBER	55-305-002-107
SCALE	AS SHOWN

NOTES:  
 1. ALL PIPING ON THIS  
 150 IS CLASS "B"  
 2. DIMENSIONS AND ELEVATIONS  
 ARE FOR REFERENCE ONLY

REF. DWG'S:  
 0-925-002

NO.	DATE	BY	CHKD.	APP.
1	10/1/11	J.P.	J.P.	J.P.
2	10/1/11	J.P.	J.P.	J.P.
3	10/1/11	J.P.	J.P.	J.P.
4	10/1/11	J.P.	J.P.	J.P.
5	10/1/11	J.P.	J.P.	J.P.

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3542

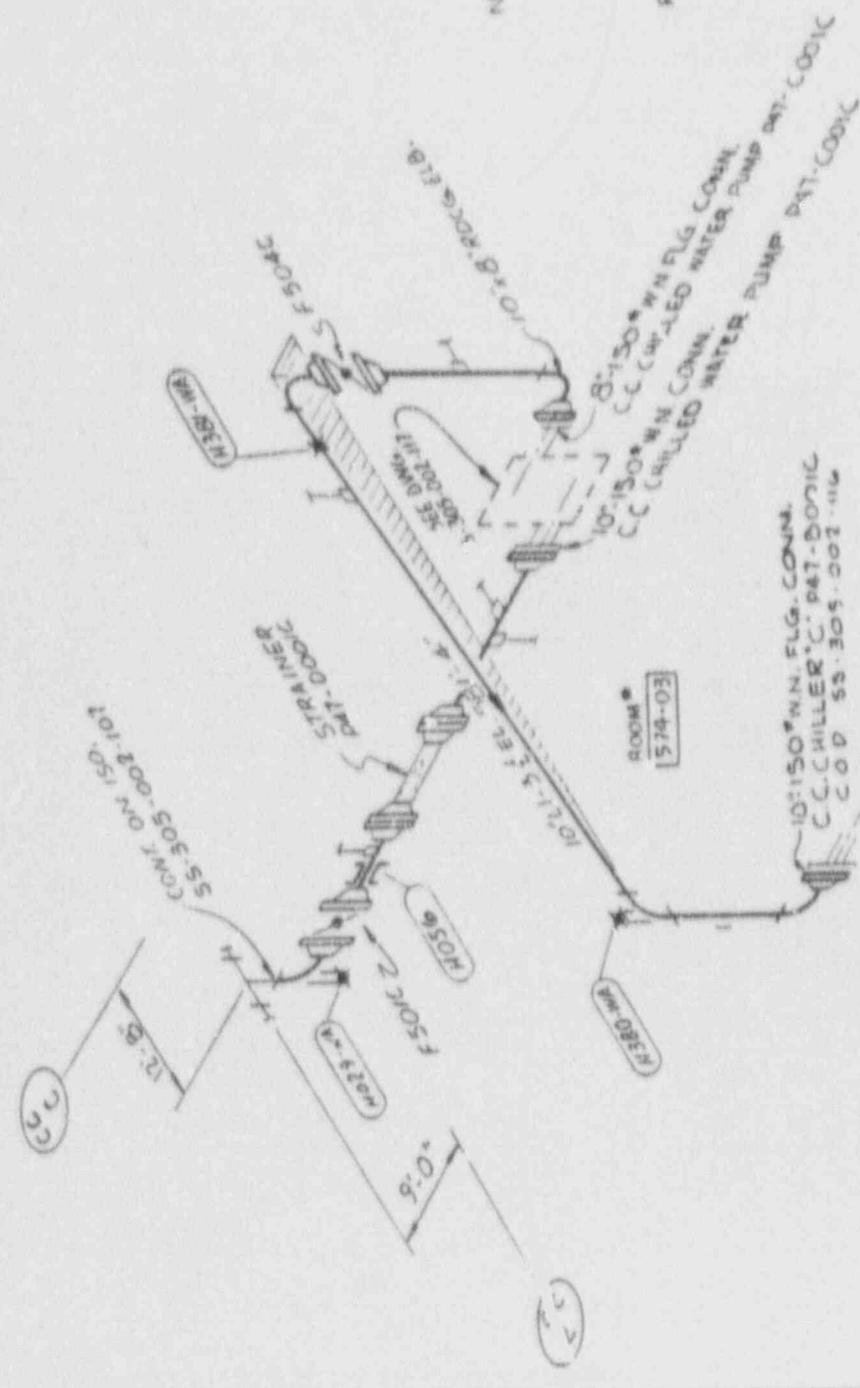


NOTES:  
 1. ALL PIPING ON THIS 150.15 CLASS 'B'  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF DWG'S:  
 SS-923-002-110 R/A  
 D-922-002

INTER-TRIS IS THE  
 USE PROGRAM FOR ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATING/INSTALLATION

THE OPERATING ELECTRIC SUPPLY TO THE CONTROL	
Supply to the Control Panel	100 VOLT 50 Hz
150.150000 150.150000 150.150000	
CHILLED WATER S/S W/DP/C	
C.C. EL. 574.10'	
DATE	10/11/11
BY	[Signature]
SCALE	1/8" = 1'-0"
NO.	55-305-002-108
ISSUE	1



NO.	DATE	BY	CHKD	APP'D
B	2/11/11	M	H	[Signature]
2		J	W	[Signature]
		C	[Signature]	[Signature]

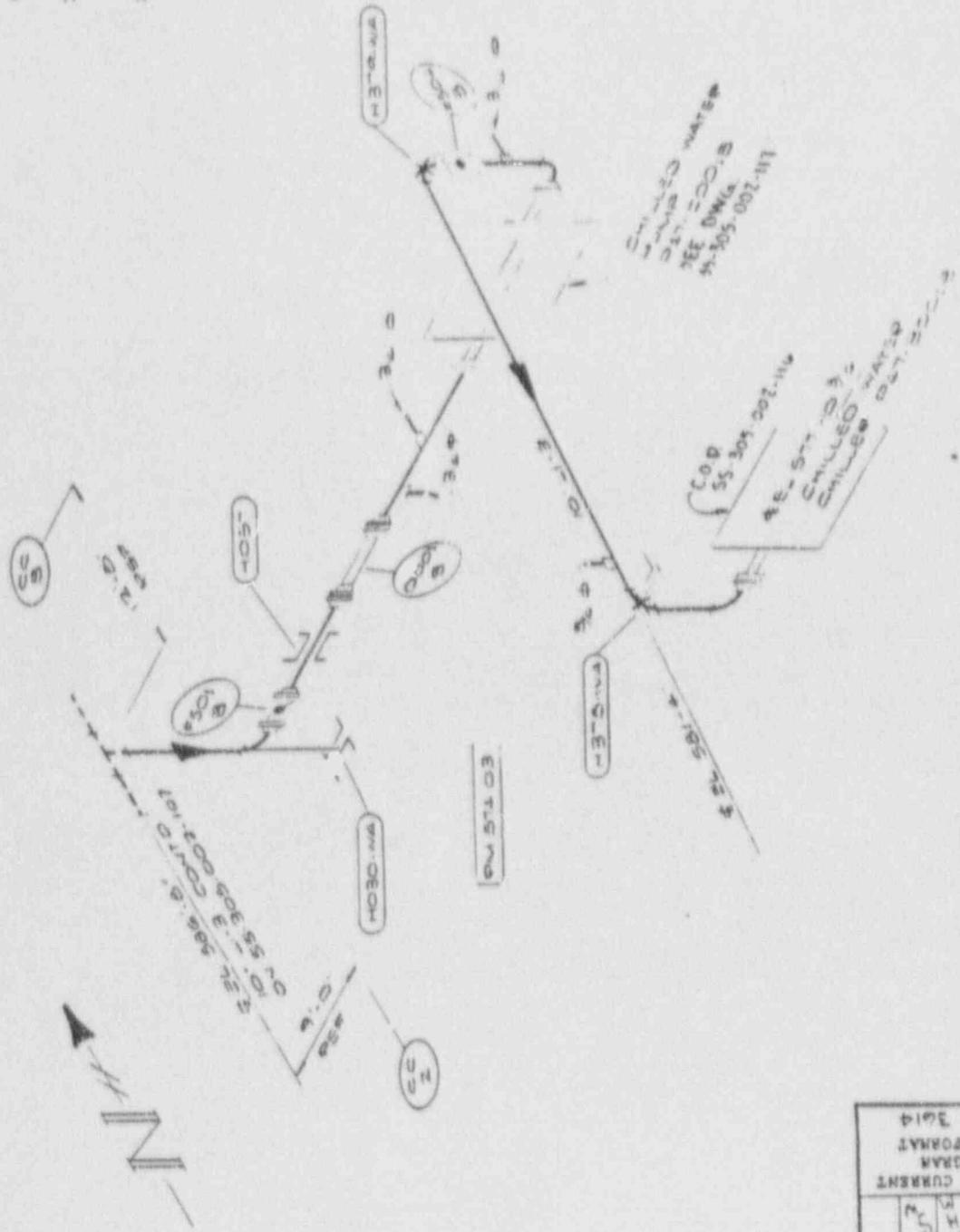
REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3014

- NOTES
- 1) ALL DIMENSIONS TO THE 150
  - 16 151 CLASS B.
  - 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
  - 3) SEE 55 303-002-100

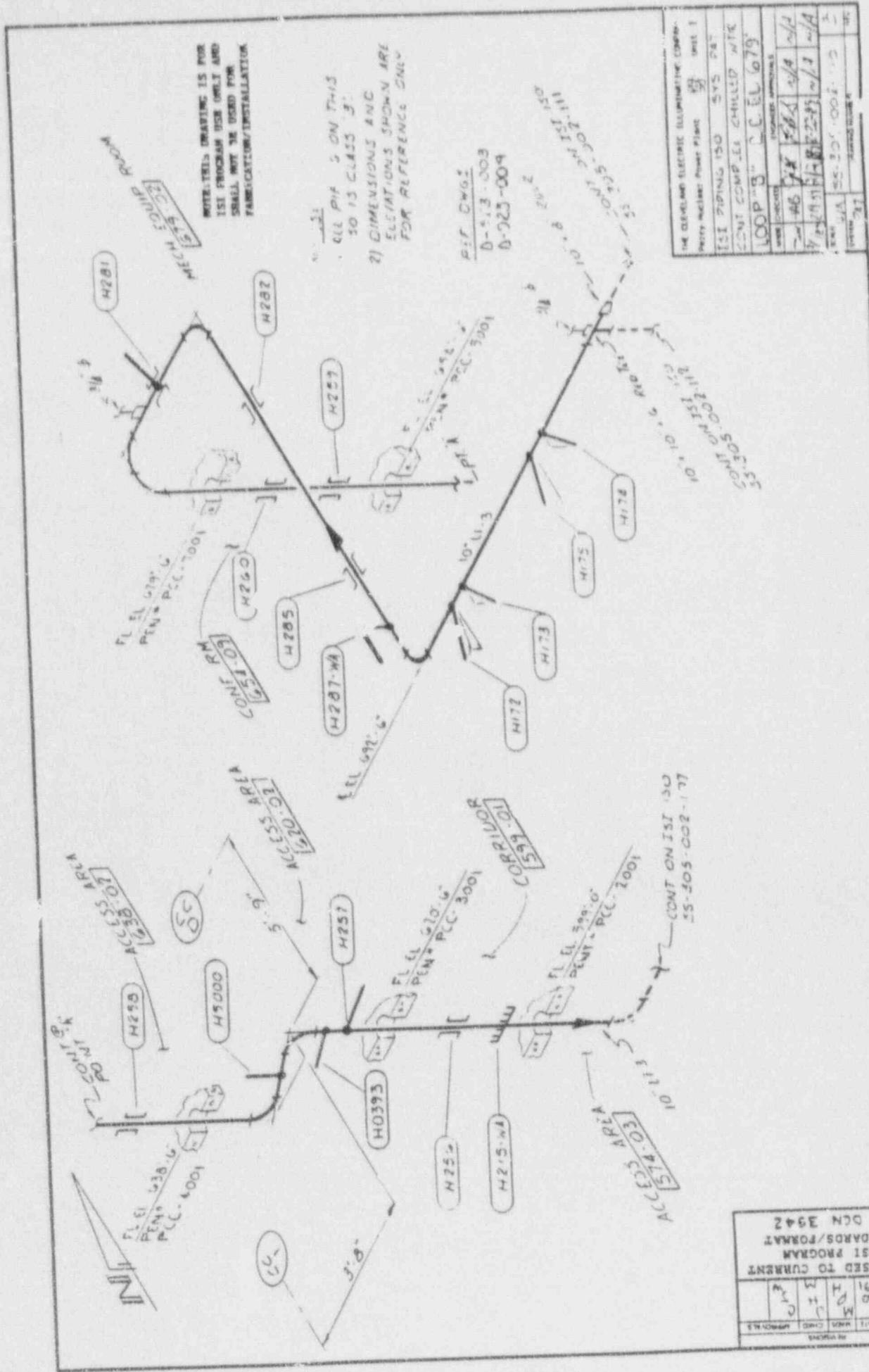
ELF. DWG.  
D-923-002

NOTE: THIS DRAWING IS FOR 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	Sheet No.
55 303-002-100	1
CHILLED WATER SYS LOOP 'B'	
DATE	BY
11/18/57	WLB
SCALE	PROJECT NUMBER
AS SHOWN	55 303-002-100



REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3614	
DATE	BY
11/18/57	WLB
SCALE	PROJECT NUMBER
AS SHOWN	55 303-002-100



NOTES: THIS DRAWING IS FOR  
 IEST PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

ALL PIPES ON THIS  
 SO IS CLASS 'B'

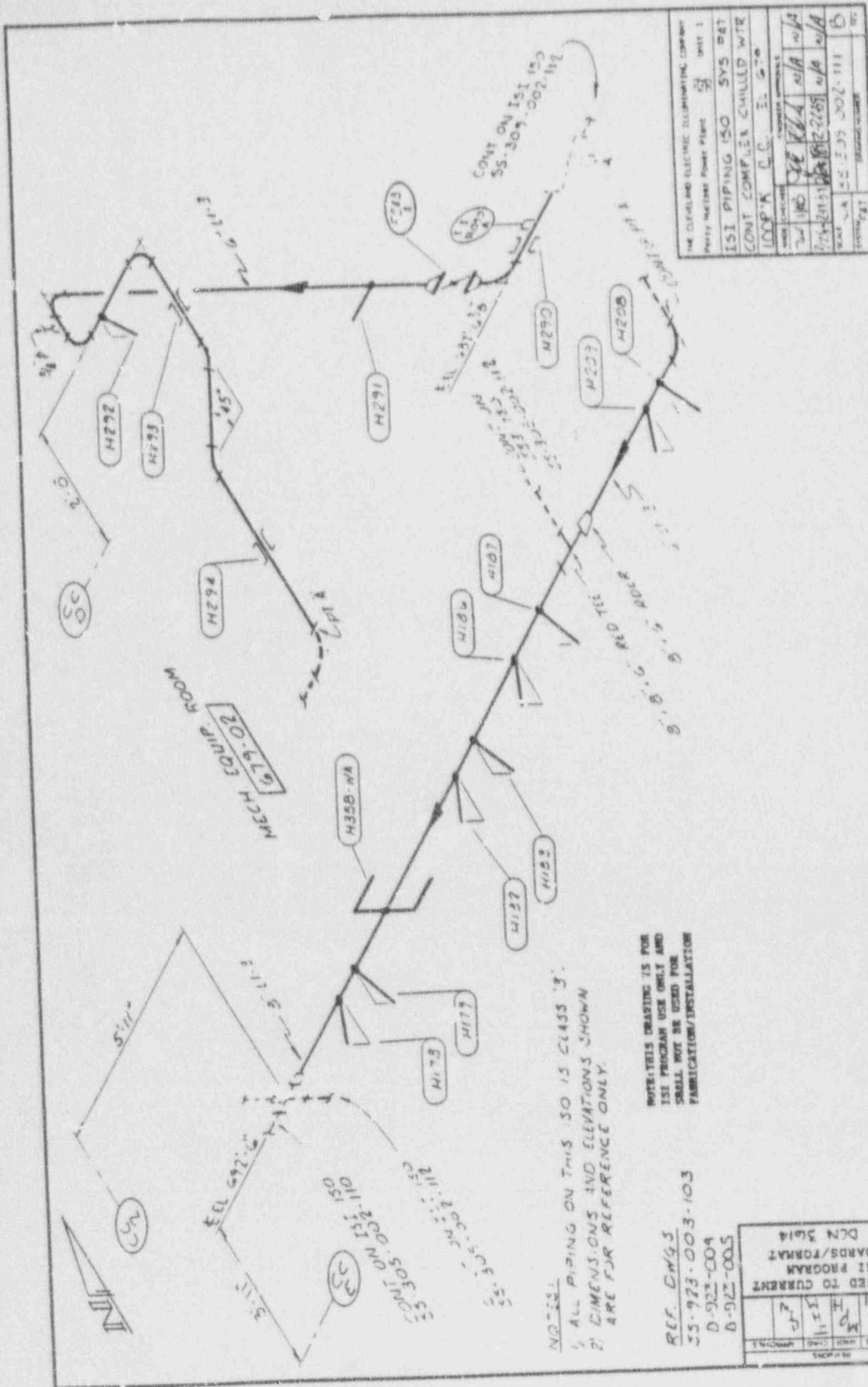
2) DIMENSIONS AND  
 ELEVATIONS SHOWN ARE  
 FOR REFERENCE ONLY

P/F DWG:  
 D-513-003  
 D-223-004

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NO.	513-003
DATE	10/10/55
ESTIMATING 150 SYS P&T	
CONT COMP-EE CHILLED WTR	
LOOP "B" - C.C.E.L. 679	
NO.	REVISED APPROVALS
1	AB
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100	AB

NO.	DATE	BY	CHKD	APPV	REVISION
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REVISED TO CURRENT  
 IEST PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3942



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY		PROJECT NO. 51		SHEET 1	
PERNY NACRES Power Plant		ISO PIPING ISO SYS P&T		CONT COMPLEN CHILLED WTR	
LOOP K, C.C. E. G. 70		DATE 11/21/53		DRAWN BY W.A.	
CHECKED BY J.E.		APPROVED BY J.E.		DATE 11-20-53	
PROJECT NO.		SHEET NO.		TOTAL SHEETS	
51		1		1	

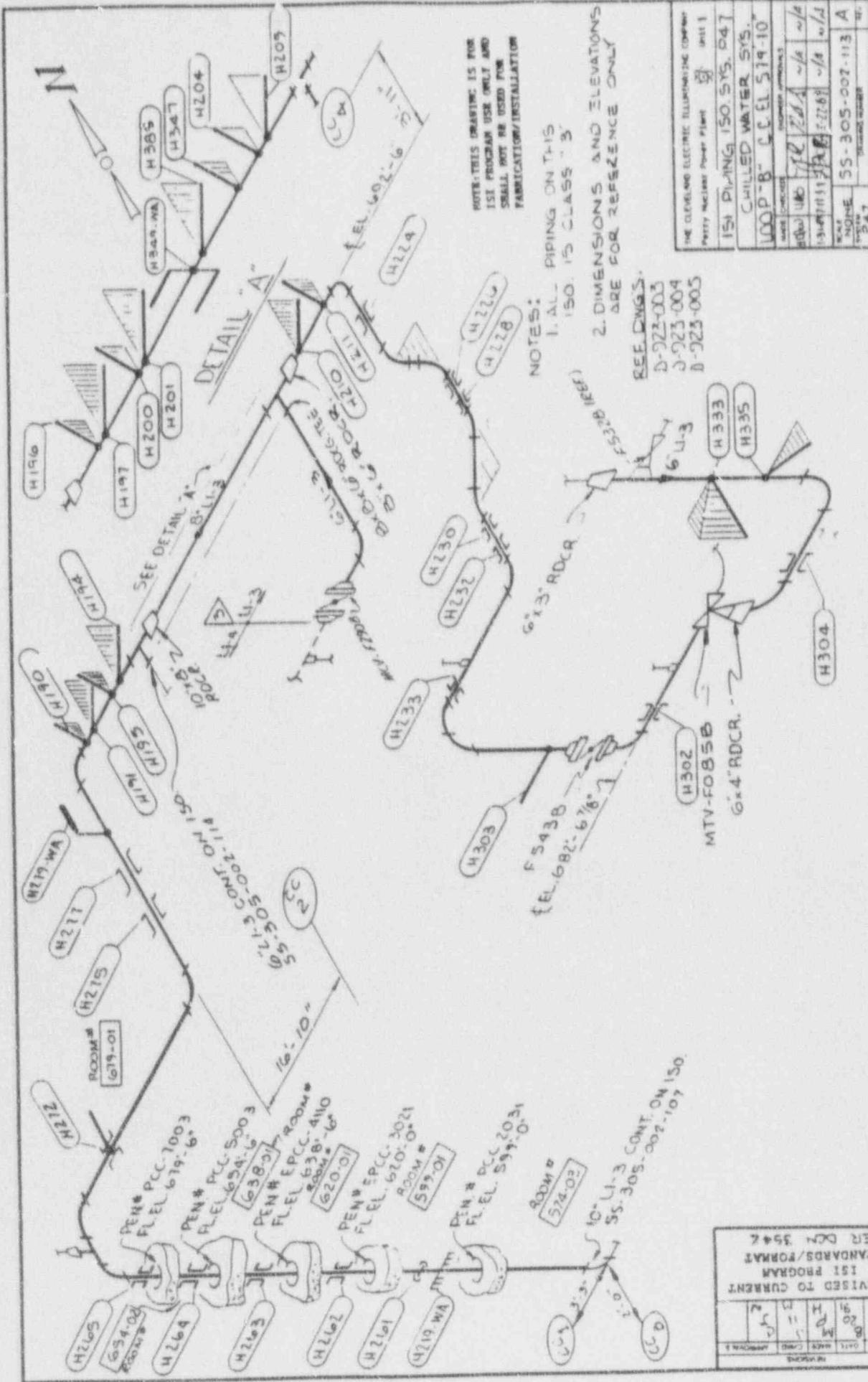
NOTE: THIS DRAWING IS FOR  
 ISO PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NOTES:  
 1) ALL PIPING ON THIS ISO IS CLASS '3'.  
 2) DIMENSIONS AND ELEVATIONS SHOWN  
 ARE FOR REFERENCE ONLY.

REF. DWG'S  
 55-973-003-103  
 D-922-004  
 D-922-005

NO.	DATE	BY	APP.	REVISION
1	11/21/53	W.A.	J.E.	REVISED TO CURRENT ISO PROGRAM STANDARDS/FORMAT PER DCN 5614





NOTICE: THIS DRAWING IS FOR  
 THE PROGRAM USER ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

NOTES:  
 1. ALL PIPING ON THIS  
 IS 150. IS CLASS "3"  
 2. DIMENSIONS AND ELEVATIONS  
 ARE FOR REFERENCE ONLY

REVISIONS:  
 D-023-003  
 D-023-004  
 D-023-005

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry National Power Plant (Unit 1)	
151 PIPING 150. SYS. P4T	
CHILLED WATER SYS.	
LOOP "B" C.C. EL. 519'-10"	
DATE	REVISION
11/11/11	1
11/11/11	2
11/11/11	3
11/11/11	4
11/11/11	5
11/11/11	6
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11/11/11	97
11/11/11	98
11/11/11	99
11/11/11	100

NO.	DATE	BY	CHKD	APPROVED
A	11/11/11	H	H	
B	11/11/11	H	H	
C	11/11/11	H	H	
D	11/11/11	H	H	

REVISED TO CURRENT  
 151 PROGRAM  
 STANDARDS/FORMAT  
 PER DC# 3547

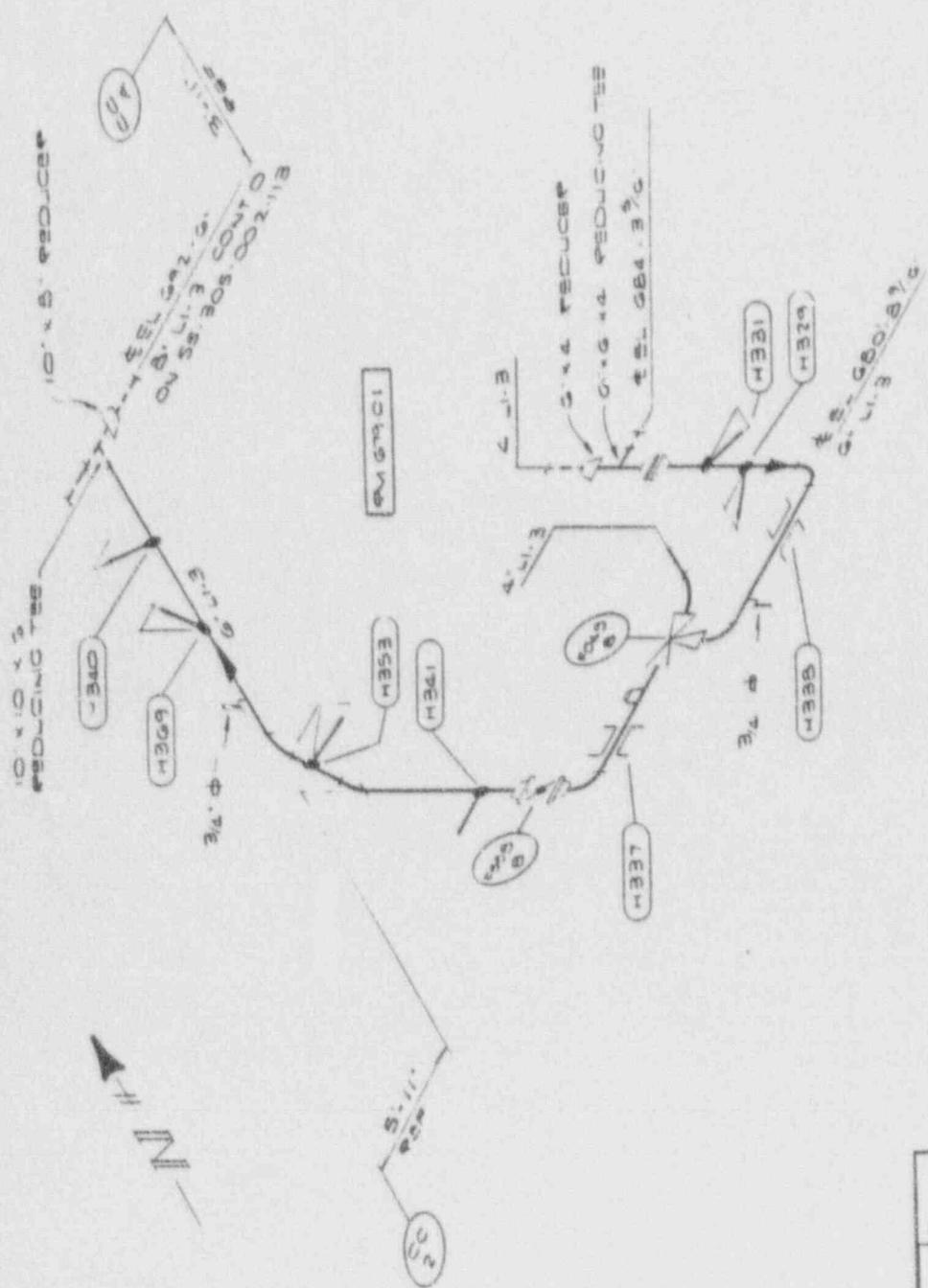
NOTES

- 1) ALL PIPING ON THIS ELEVATION IS CLASS B
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF SS 913-004-02

REF DWG  
0-223-004

NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

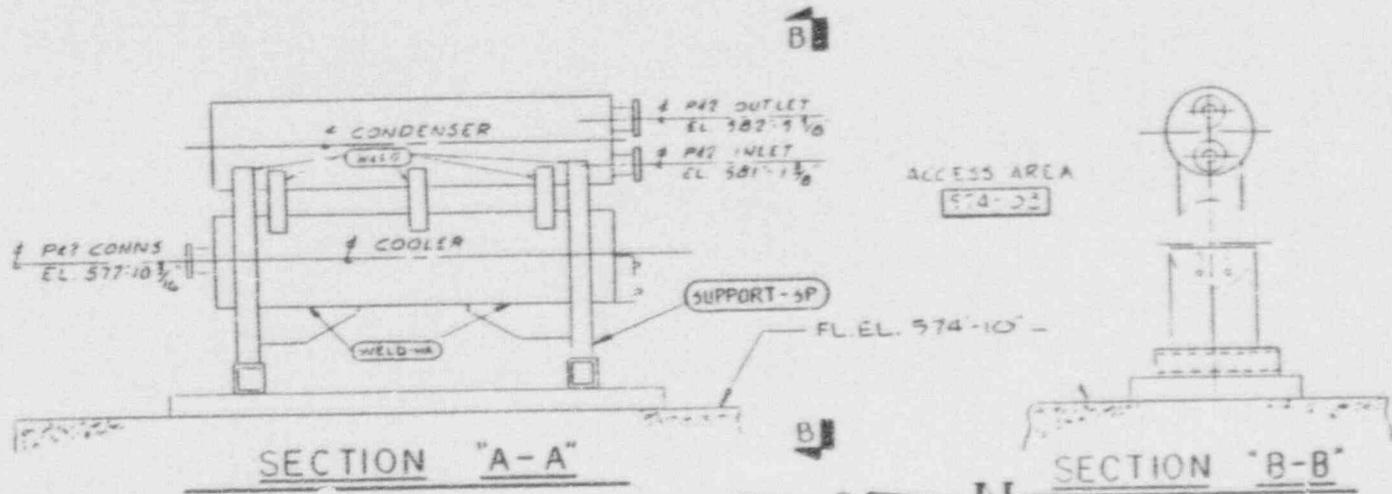
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Name: Power Plant	Unit: 1
151 BOND 150 SVS P4.7	
CHILLED WATER SYS	
WORK BY C.E. 56.679	
DATE: 11/13/88	DESIGNED APPROVED:
BY: JMS	FOR: RSD
DATE: 11/13/88	DATE: 11/13/88
SCALE: SS-305 CO2 1:1	REVISION NUMBER: A
DATE: 11/13/88	BY: JMS



REVISED TO CURRENT	A	11/13/88	JMS
STANDARDS/FORMAT	B	11/13/88	JMS
PER DCM 3P14	M	11/13/88	JMS
	H	11/13/88	JMS
	I	11/13/88	JMS
	J	11/13/88	JMS
	K	11/13/88	JMS
	L	11/13/88	JMS
	M	11/13/88	JMS
	N	11/13/88	JMS
	O	11/13/88	JMS
	P	11/13/88	JMS
	Q	11/13/88	JMS
	R	11/13/88	JMS
	S	11/13/88	JMS
	T	11/13/88	JMS
	U	11/13/88	JMS
	V	11/13/88	JMS
	W	11/13/88	JMS
	X	11/13/88	JMS
	Y	11/13/88	JMS
	Z	11/13/88	JMS



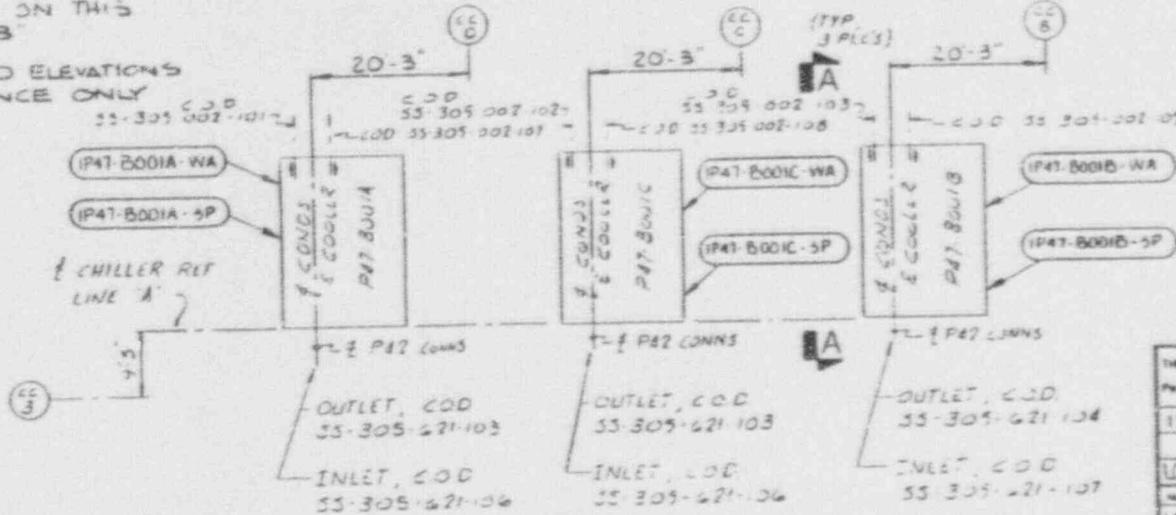
2-431



NOTES:

1. ALL COMPONENTS ON THIS DWG. IS CLASS "B"
2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG. #  
4549-68-094-2-3



NOTE: THIS DRAWING IS FOR IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

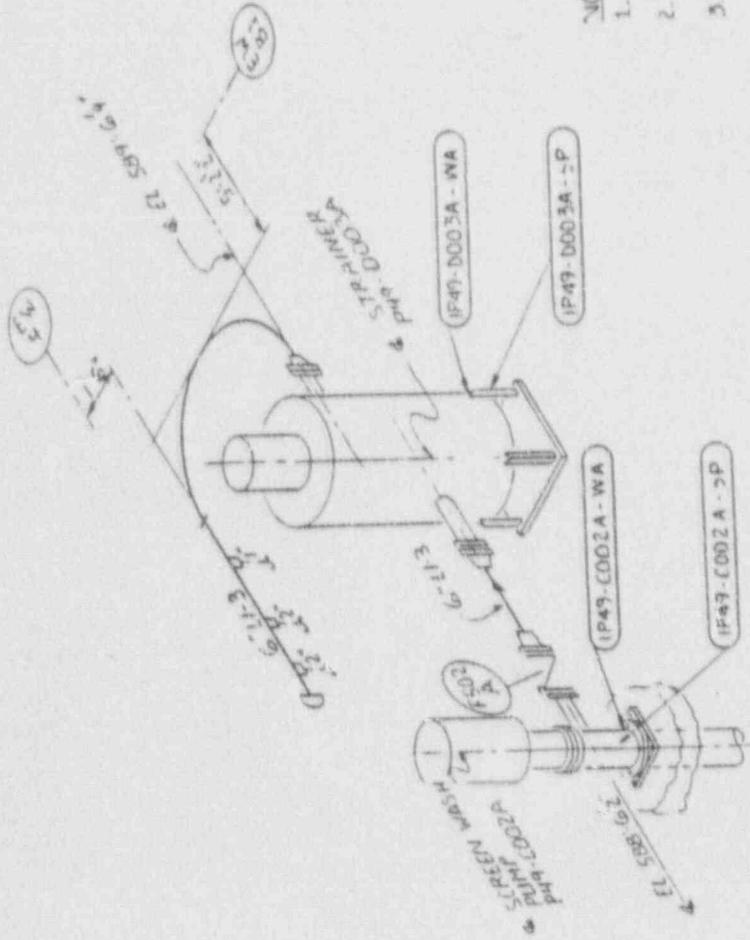
DATE	BY	CHKD	APP'D
11/15/88	WJH	WJH	
12/15/88	WJH	WJH	
01/15/89	WJH	WJH	
02/15/89	WJH	WJH	
03/15/89	WJH	WJH	
04/15/89	WJH	WJH	
05/15/89	WJH	WJH	
06/15/89	WJH	WJH	
07/15/89	WJH	WJH	
08/15/89	WJH	WJH	
09/15/89	WJH	WJH	
10/15/89	WJH	WJH	
11/15/89	WJH	WJH	
12/15/89	WJH	WJH	

SECTION PLAN

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
Perry Nuclear Power Plant			
IS1 PIPING ISO. SYS. P47			
CHILLED WATER SYS			
LOOP 'A' B' & C' EL. 574			
NO.	CHKD	ENGINEER APPROVALS	
454	HAB	WJH	WJH
454	WJH	WJH	WJH
DATE	NO. IN CH.	SS-305-002-116	E
PROJECT			REV.
P47			

Rev. 1





NOTES:  
 1. ALL PIPING ON THIS ISO IS CLASS 3.  
 2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.  
 3. REF. DWGS:  
 4549-22-017-4  
 4549-38-014-4  
 D-303-114

THIS DRAWING IS FOR  
 ISE PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

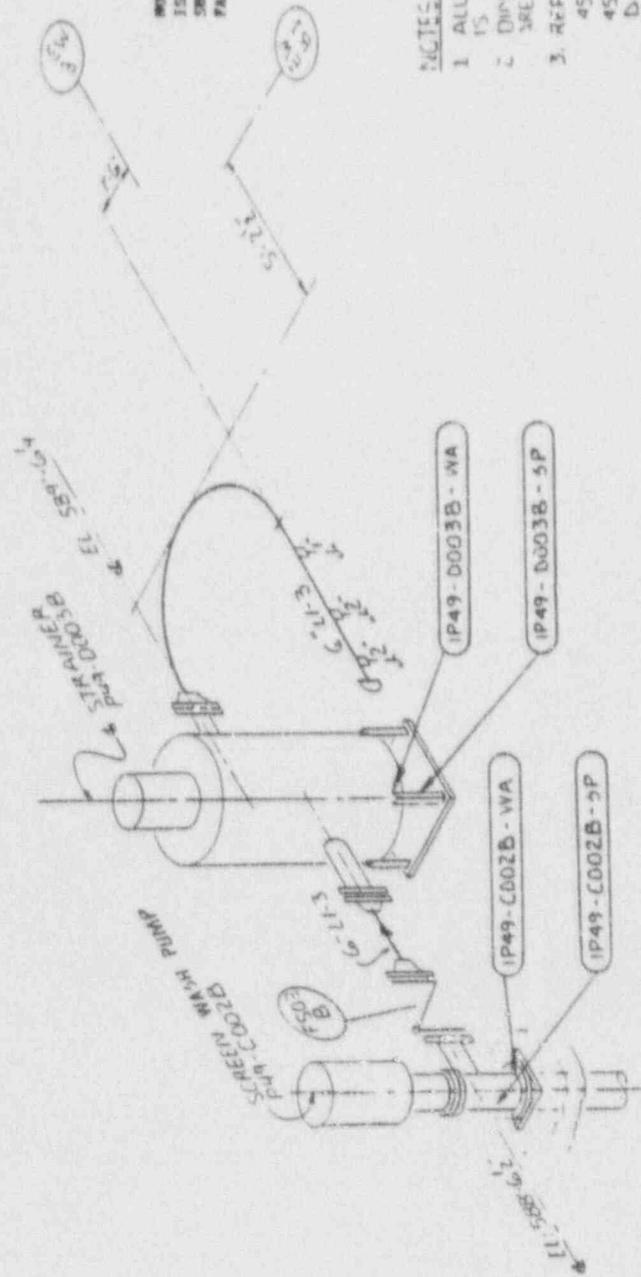
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	58101 1
ISSUE	1
TITLE	ISE PIPING ISO
DATE	3-25-04
BY	DR JBA
CHECKED	DR JBA
DATE	7-18-04
SCALE	AS SHOWN
APPROVED	
DATE	3-25-04
DRAWING NUMBER	58101 1
REV	B

REVISIONS		
NO.	DATE	DESCRIPTION
B	3/25/04	REVISED TO CURRENT ISE PROGRAM STANDARDS/FORMAT PER DCN 5615

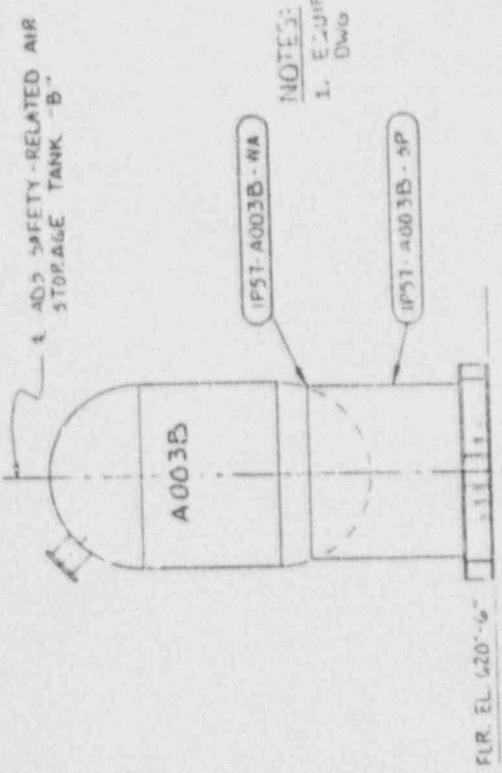
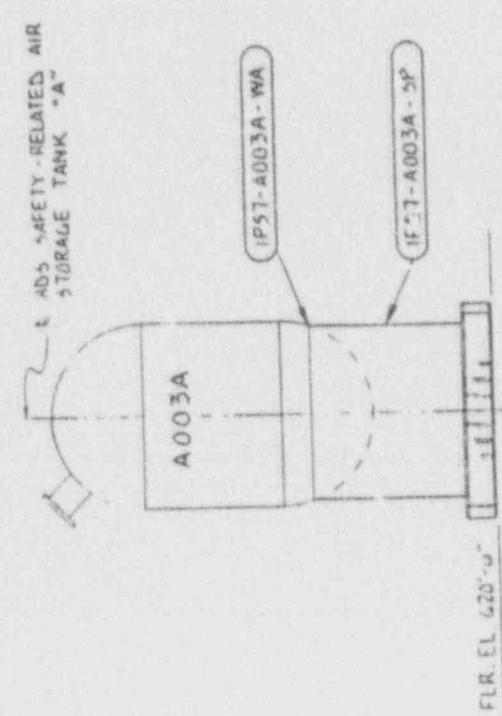
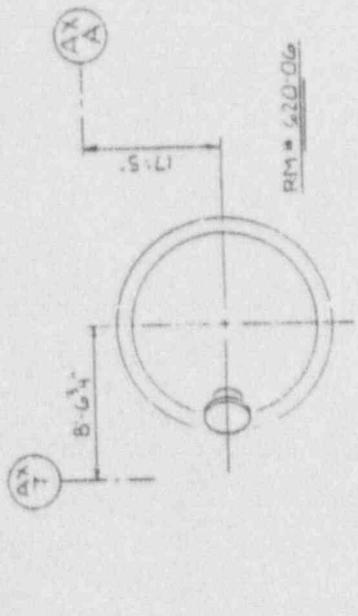
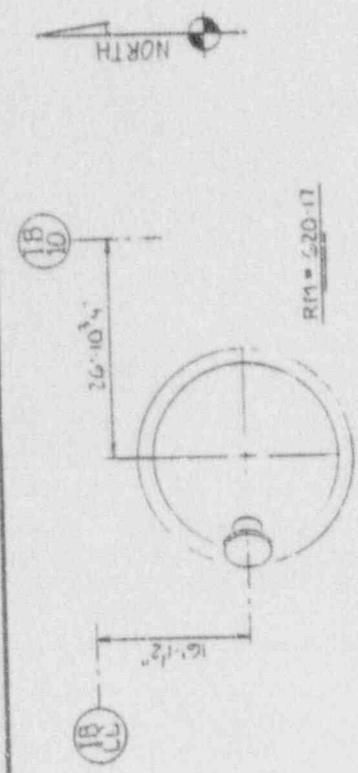
NOTES: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

- NOTES:
1. ALL PIPING ON THIS 150. IS CLASS '3'.
  2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
  3. SEE DWGS:  
 4549-22-017-4  
 4549-38-014-4  
 D-303-114

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	UNIT 1
ISI PIPING 150	SYS P49
E.S.W. SCREEN WASH	
E.S.W. BUMPHOUSE	
DATE	305 214 107
BY	B



REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3615	B 23 91	M H W
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NOTES:  
1. EQUIPMENT SHOWN ON THIS DWG IS CLASS 3.

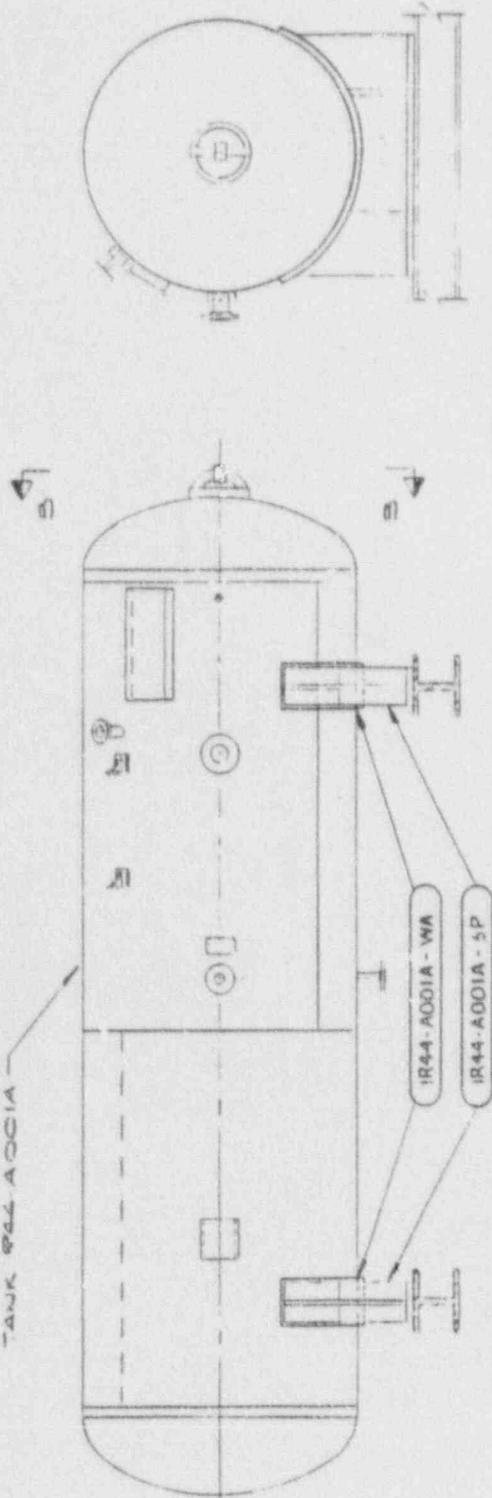
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

NO.	DATE	BY	CHKD	APPROVED
1	08/20/91	M.P.H.	H.M.	W.J.

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3542

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Project Number	55-305-271-101
Sheet	101
Scale	AS SHOWN
Drawn	S.P.R.
Checked	H.M.
Approved	W.J.
Project	55-305-271-101
Sheet	101

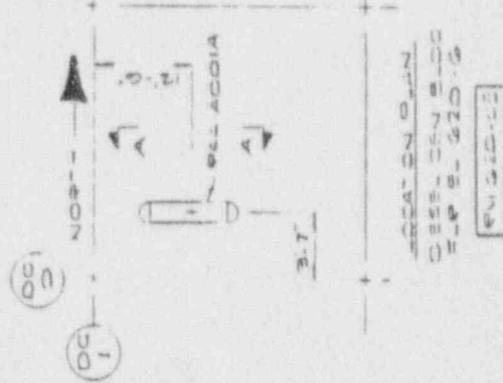
STANDARD AIR RECEIVING  
TANK 844 AOO1A



SECTION A-A

NOTES

- 1) STANDARD AIR RECEIVING TANK 844 AOO1A IS ISI CLASS 3
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF DWG. : 4549-57-022 & B-304-351



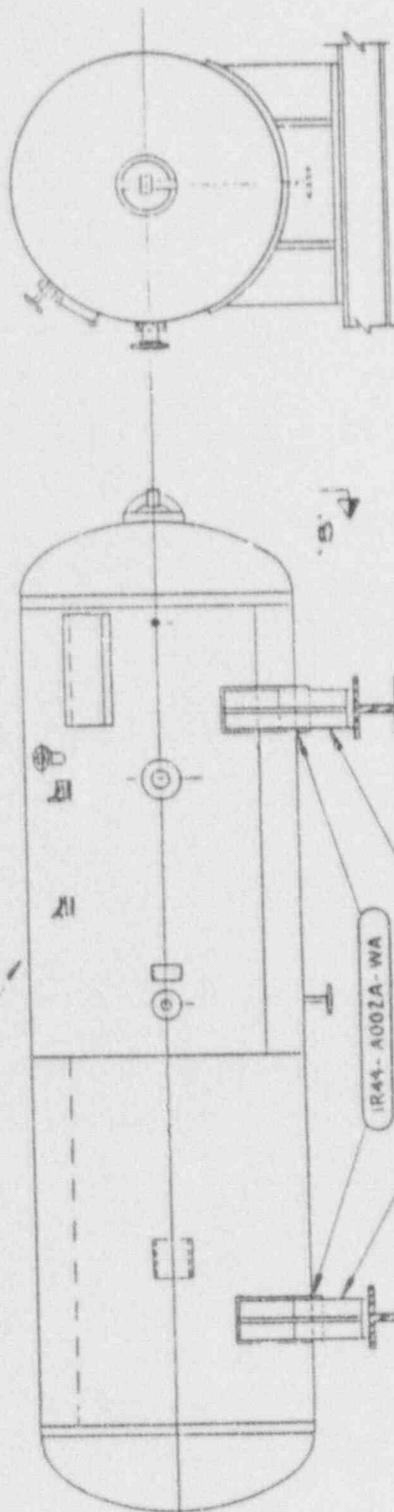
SECTION B-B

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NAME	UNIT 1
DATE	5/10/50
BY	STANLEY DEB...
CHECKED	...
APPROVED	...
SCALE	AS SHOWN
DRAWN	...
CHECKED	...
APPROVED	...

REVISED TO CURRENT STANDARDS/FORMAT PER DCN 3015	B	9/1	...
	...	...	...
	...	...	...
	...	...	...

STARTING AIR RECEIVING TANK #44-A002A

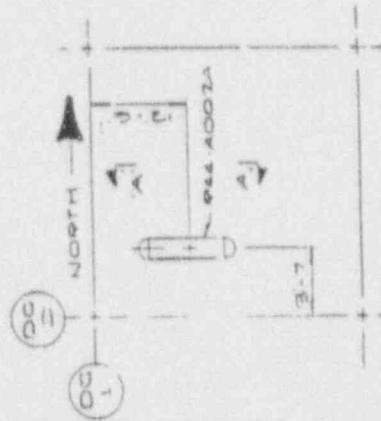


SECTION 'A-A'

SECTION 'B-B'

NOTES

- 1.) STARTING AIR RECEIVING TANK #44-A002A IS ISI CLASS 'B'.
- 2.) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
- 3.) REF DWG: 4549-57-022 & D-304-351



LOCATION PLAN  
DIESEL GEN BLOC  
FLP EL 620'-0"

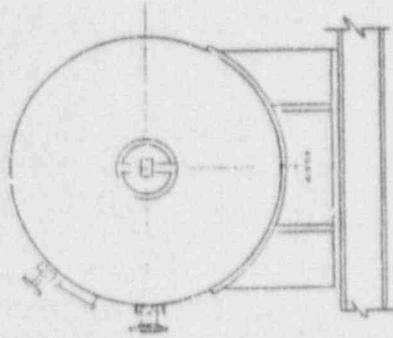
REV 520-02

NOTES: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

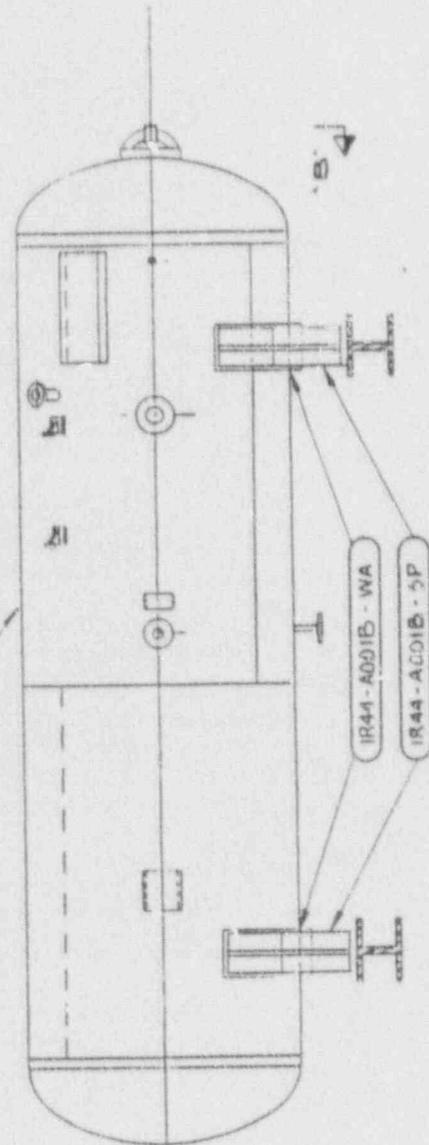
THE DEVELOPER ELECTRIC ILLUMINATING COMPANY	
PARTY INCLUDE: POWER PLANT	
151 BUILDING: 30	SYS: #44
DVI STANDBY DIESEL GEN	
STARTING AIR SYS	
NO. (REV)	DATE
01	11/10/88
02	11/10/88
03	11/10/88
04	11/10/88
05	11/10/88
06	11/10/88
07	11/10/88
08	11/10/88
09	11/10/88
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97	11/10/88
98	11/10/88
99	11/10/88
100	11/10/88

REVISED TO CURRENT	16	11/10/88	1
151 PROGRAM	15	11/10/88	1
STANDARDS/FORMAT	14	11/10/88	1
PER DCN 3615	13	11/10/88	1

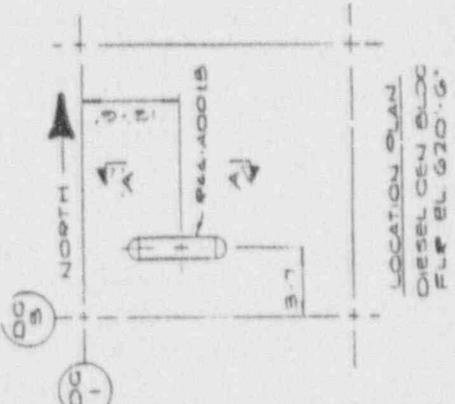
STARTING AIR RECEIVING TANK 044-ACCIB



SECTION 'B-B'



SECTION 'A-A'



REV 240-07

NOTES

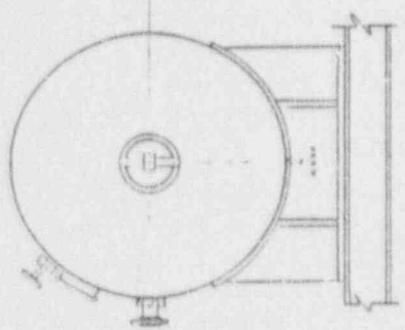
- 1) STARTING AIR RECEIVING TANK 044-ACCIB IS ISI CLASS 3.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF. DWG : 4549-57-022 & D-304-951

NOTES: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

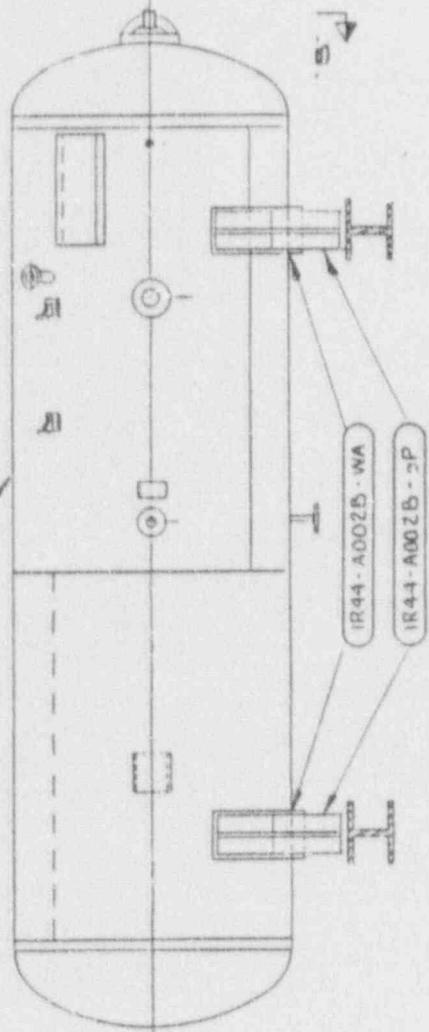
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	UNIT 1
151 DRAWING NO.	515 044
STARTING AIR SYS	044-ACCIB
STARTING AIR SYS	044-ACCIB
DATE	1/14/81
BY	1/14/81
CHECKED	1/14/81
SCALE	AS SHOWN
TITLE	STARTING AIR SYS
PROJECT NUMBER	515 044

REV	DATE	BY	CHKD	APPROV
1	1/14/81	H	M	C
REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3615				

STARTING AIR RECEIVING  
TANK P44-A002B



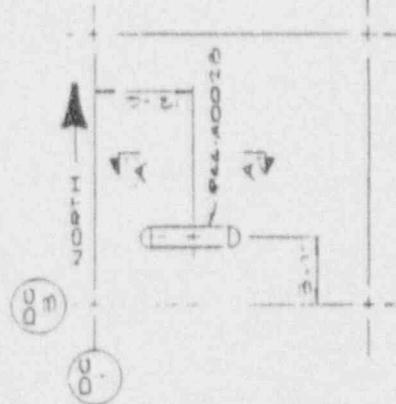
SECTION "B-B"



SECTION "A-A"

NOTES

- 1) STARTING AIR RECEIVING TANK P44-A002B IS ISI CLASS 3.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
3. REF. DWG: 4589-57-022 & D-304-351



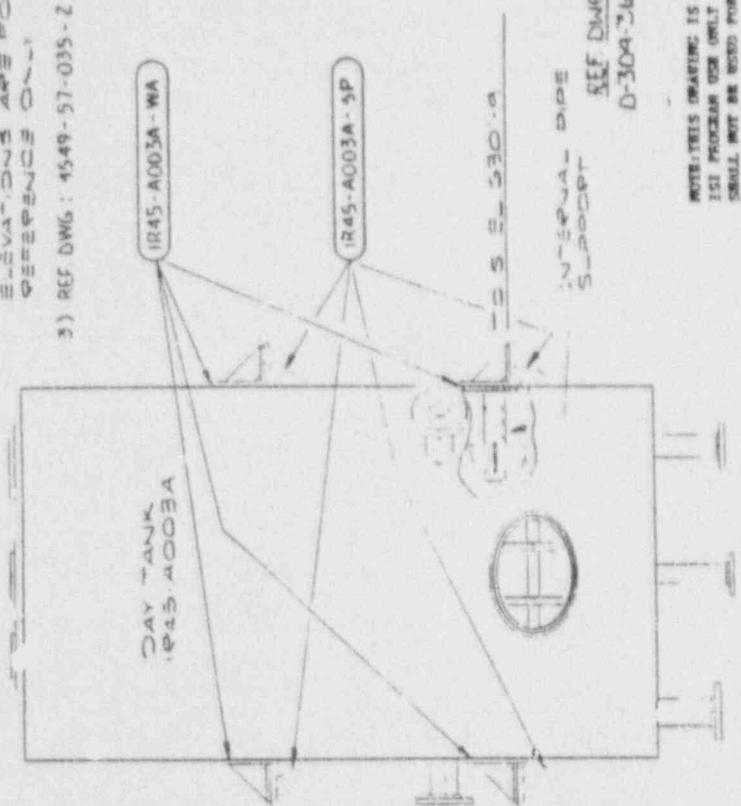
NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE GEORING ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Plant	UNIT 1
151 D-RING	50 578 P44
DYE STANDBY DIESEL GEN	
STARTING AIR SYS	
REV	DATE
1	10/16/81
2	11/14/81
3	11/14/81
4	11/14/81
5	11/14/81
6	11/14/81
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99	11/14/81
100	11/14/81

REVISED TO CURRENT	16	11/14/81	11/14/81
ISI PROGRAM	15	11/14/81	11/14/81
STANDARDS/FORMAT	14	11/14/81	11/14/81
PER DGN 3615	13	11/14/81	11/14/81

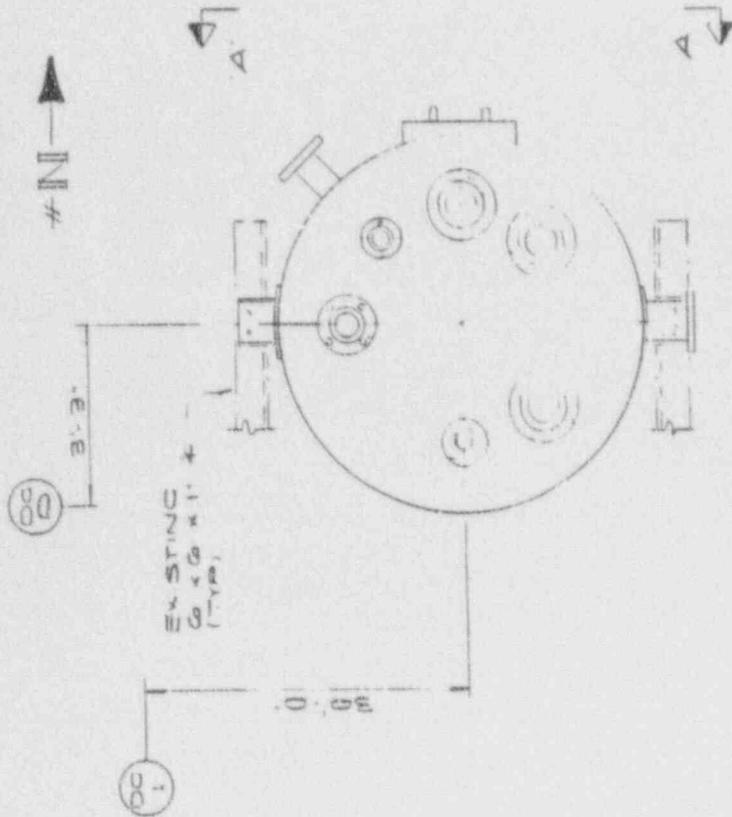
NOTES

- 1) DAY TANK IR45-A003A IS IN CLASS B
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF DWG: 4549-57-035-2



NOTE: THIS DRAWING IS FOR THE PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part No.	IR45-A003A
Rev.	1
DATE	10/11/55
BY	J. H. H. / J. H. H.
CHECKED	J. H. H. / J. H. H.
APPROVED	J. H. H. / J. H. H.
SCALE	AS SHOWN
PROJECT	011155-505-55-110
DWG. NO.	011155-505-55-110
REV.	B



PLAN VIEW

IR45-A003A

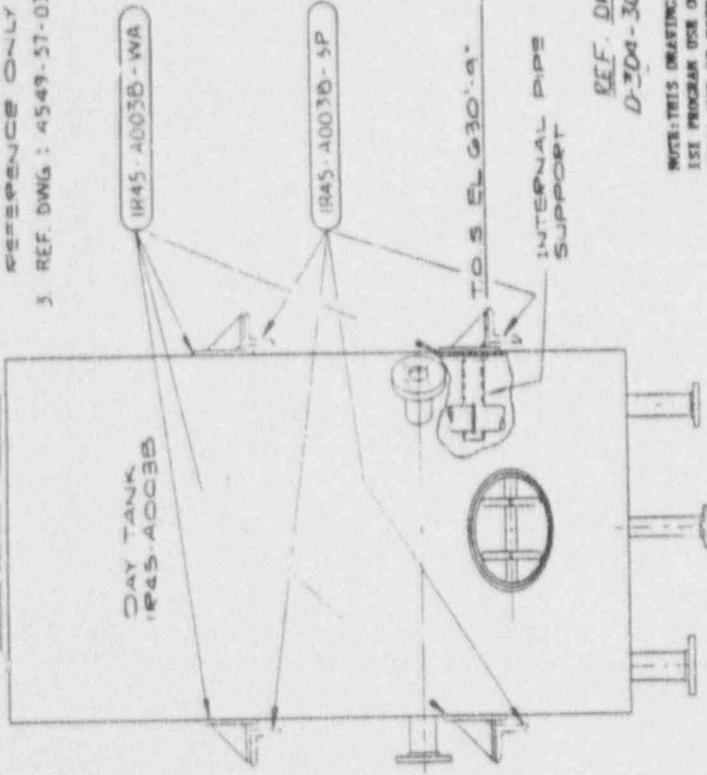
DESEL GENERATOR BLOCK

REV.	DATE	BY	CHKD.	APPROVED
B	10/11/55	J. H. H.	J. H. H.	J. H. H.

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DCN 3615

**NOTES**

- 1) DAY TANK IR45-A003B IS CLASS 3.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
3. REF. DWG : 4549-57-035-2

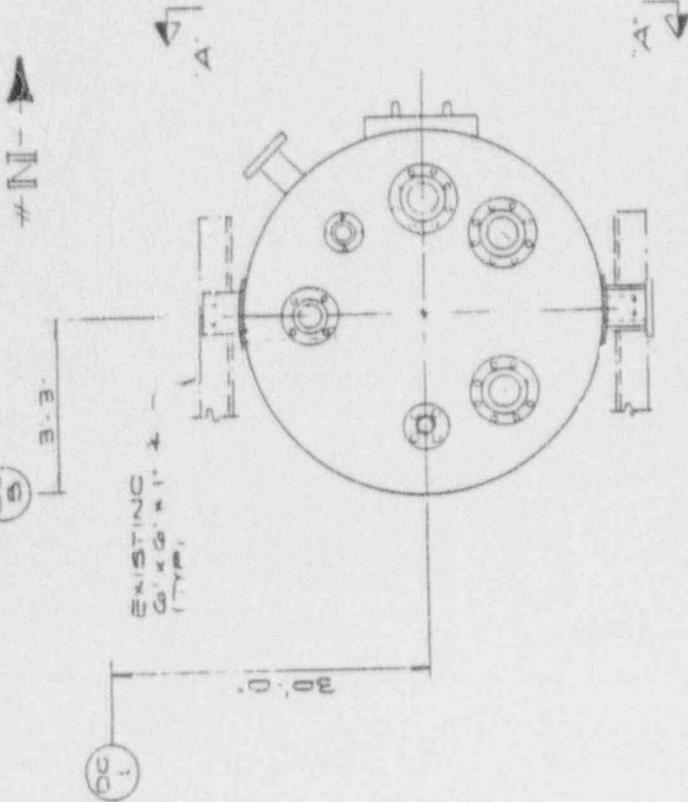


REF. DWG.  
D-2DA-364

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE LEVELAND ELECTRIC ILLUMINATING COMPANY			
NEWYORK OFFICE: 100 W. 42ND ST., N.Y.C. 36			
DATE	BY	CHKD.	APP'D.
12/10/55	J.P.	J.P.	J.P.
PUEBLO DIESEL GENERATOR			
PUEBLO OIL SYS. DIV. 2			
NO.	REV.	DATE	DESCRIPTION
1		11/11/55	ISSUE 355-111
2			

SECTION A-A



PLAN VIEW

PU 230-57

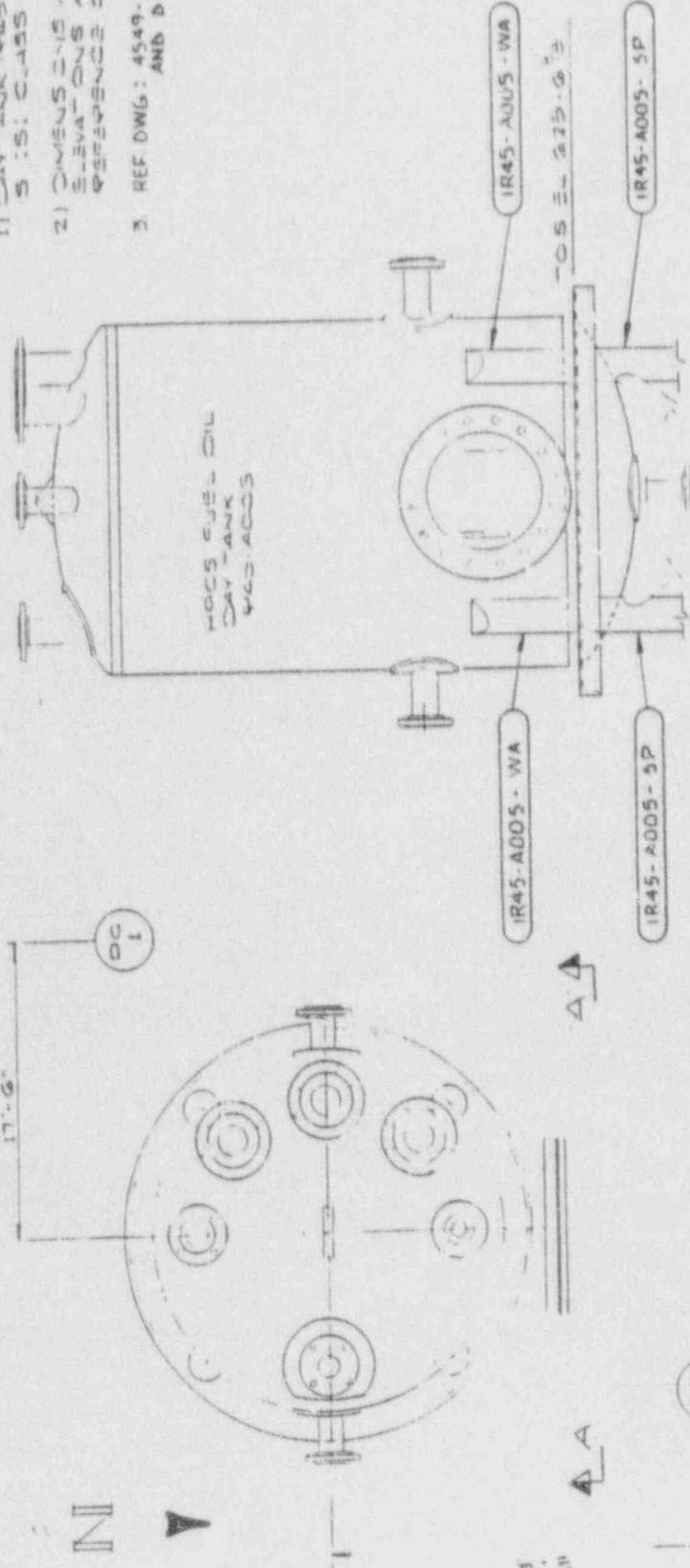
DESEL GENERATOR BLOCK

REV.	DATE	BY	CHKD.	APP'D.
1	11/11/55	J.P.	J.P.	J.P.

REVISED TO CURRENT  
ISI PROGRAM  
STANDARDS/FORMAT  
PER DEN 3615

NC-55

- 1) DAY-TANK IR45-A005, S: SI CLASS B
- 2) DIMENSIONS AND SEALS ARE FOR REFERENCE ONLY
3. REF DWG: 4549-31-223-7 AND B-304-361



SECTION A-A

PLAN VIEW

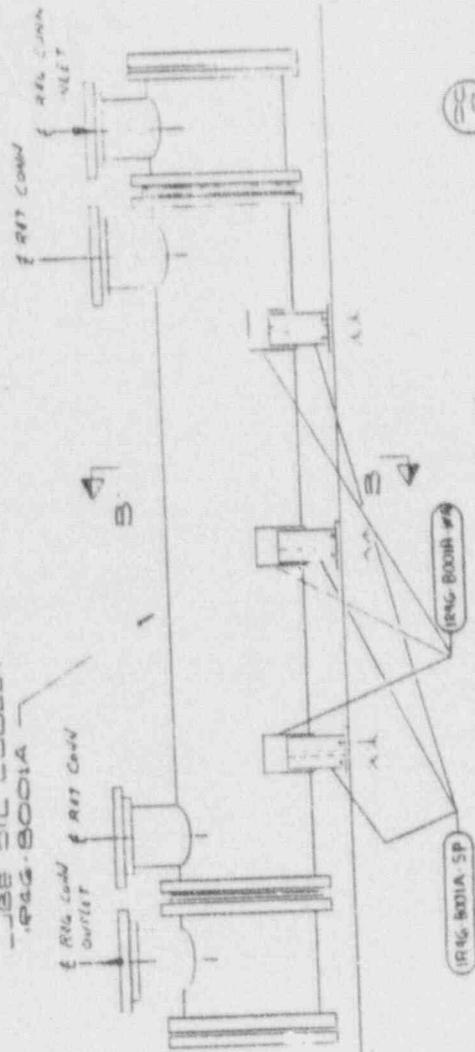
REV. 6-10-68

DIESEL GENERATOR B-DC

REV	DATE	BY	CHKD	APPROV
B	23	M	H	AL
REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT PER DCN 3615				

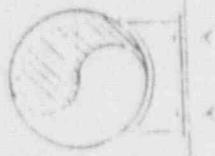
THE DEVELOPER ELECTRIC ILLUSTRATING COMPANY	
Perry Nuclear Power Plant	UNIT 1
S: 3040 50	SYS 045
HCCS DIESEL GEN FUEL	
D-51C-DIV-3	
NO. 1000	NO. 1000
DATE	10/14/68
BY	M. H. AL
CHKD	H. AL
CAL	3-23-68-101
REV	5

JOB OIL COOLER  
REG-8001A



SECTION A-A

SECTION B-B



SECTION B-B

NOTE: THIS DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

- NOTES
- 1) REG COIL COOLER IS  
1ST CLASS B
  - 2) DIMENSIONS AND  
WEIGHTS ARE PER  
SPECIFICATIONS ONLY
  - 3) REF DWG 4549-57-42-2 & D-304-367

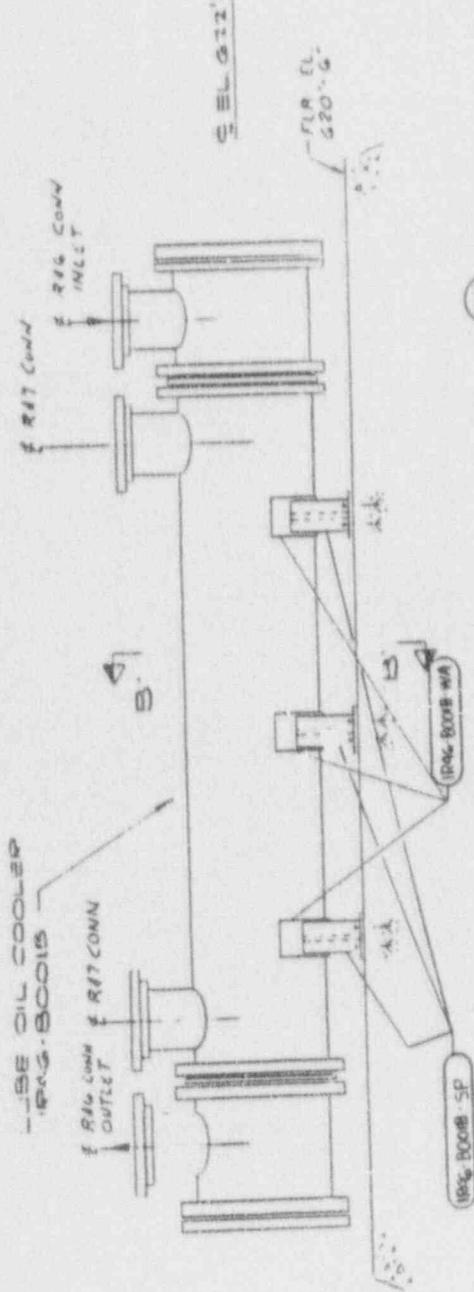
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Part of National Electric Plant Unit 1

STANDARD DRAWING NO.	4549-57-42-2
REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DUN 3615	
DATE	11/15/57
BY	W. J. H. / J. L. W.
CHECKED BY	H. M. / J. L. W.
APPROVED BY	J. L. W.
SCALE	AS SHOWN
PROJECT	4549-57-42-2
UNIT	1
DRAWING NO.	4549-57-42-2
REV	1

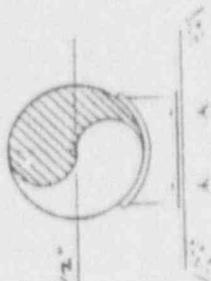
LOCATION PLAN  
DRESS GENERATOR  
SLOC

94 510-05

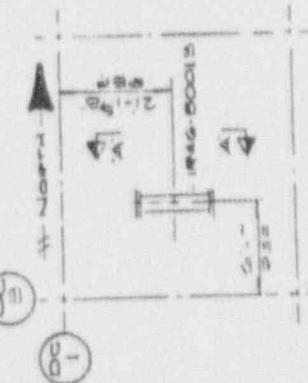
REVISED TO CURRENT 1ST PROGRAM STANDARDS/FORMAT PER DUN 3615	
DATE	11/15/57
BY	W. J. H. / J. L. W.
CHECKED BY	H. M. / J. L. W.
APPROVED BY	J. L. W.
SCALE	AS SHOWN
PROJECT	4549-57-42-2
UNIT	1
DRAWING NO.	4549-57-42-2
REV	1



**SECTION A-A**



**SECTION B-B  
 (TYP 3 PLCS)**



NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

- NOTES
- LUBE OIL COOLER IS  
 ISI CLASS 'B'.
  - DIMENSIONS AND  
 ELEVATIONS ARE FOR  
 REFERENCE ONLY
  - REF. DWG. 549-57-42-2 & D-304-342

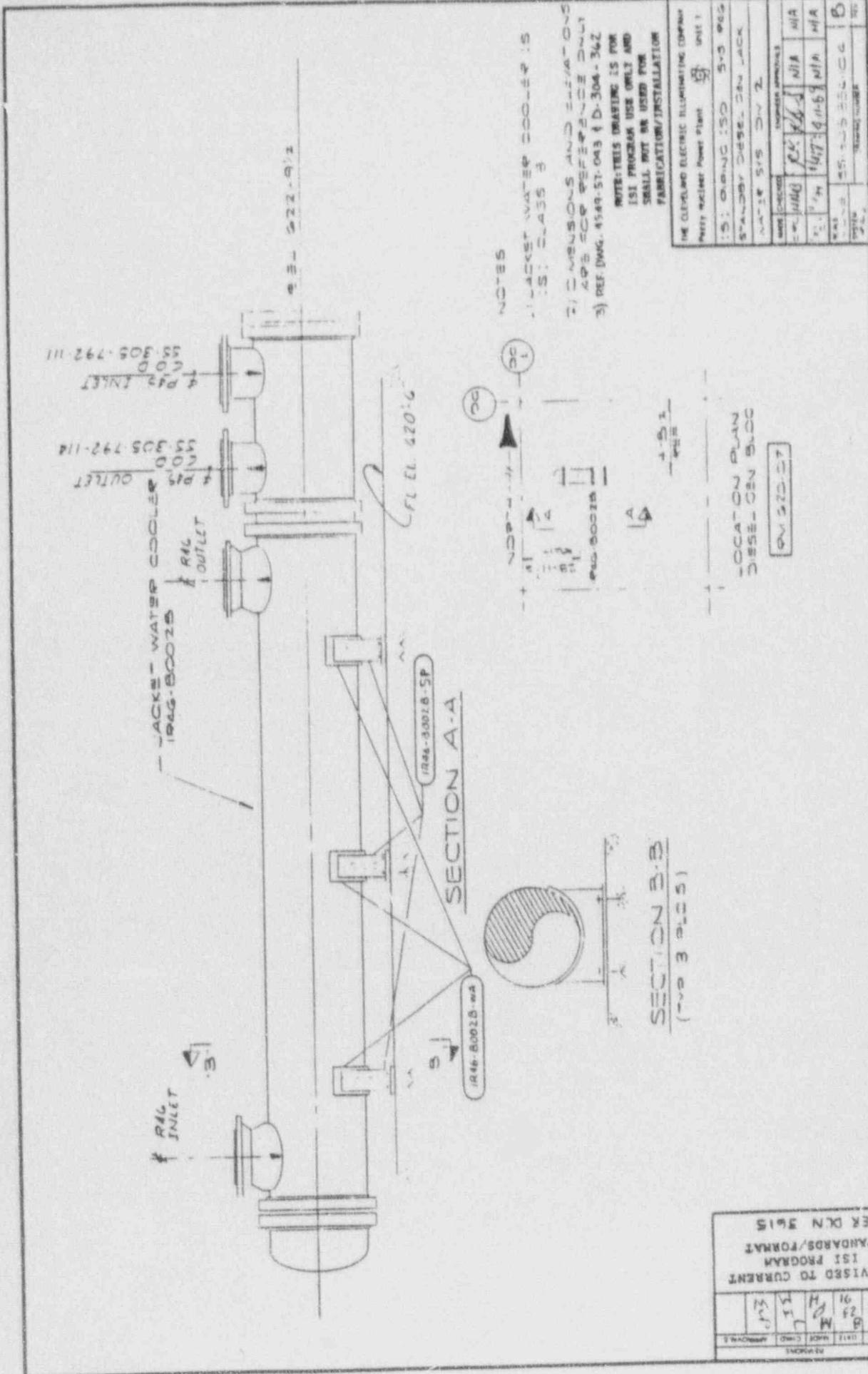
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
 1000 MARKET STREET CLEVELAND, OHIO 44115  
 UNIT 1

NO.	DATE	REVISIONS
1	11/14/83	REVISED APPROX.
2	12/11/83	REVISED APPROX.
3	12/21/83	REVISED APPROX.
4	12/21/83	REVISED APPROX.
5	12/21/83	REVISED APPROX.
6	12/21/83	REVISED APPROX.

REVISED TO CURRENT  
 ISI PROGRAM  
 STANDARDS/FORMAT  
 PER DCN 3615

REV	DATE	MADE CHG	APPROVED
B	23/91	M	H
B	23/91	M	H
B	23/91	M	H





55-305-792-118  
COD  
OUTLET

55-305-792-111  
COD  
INLET

83-522-912

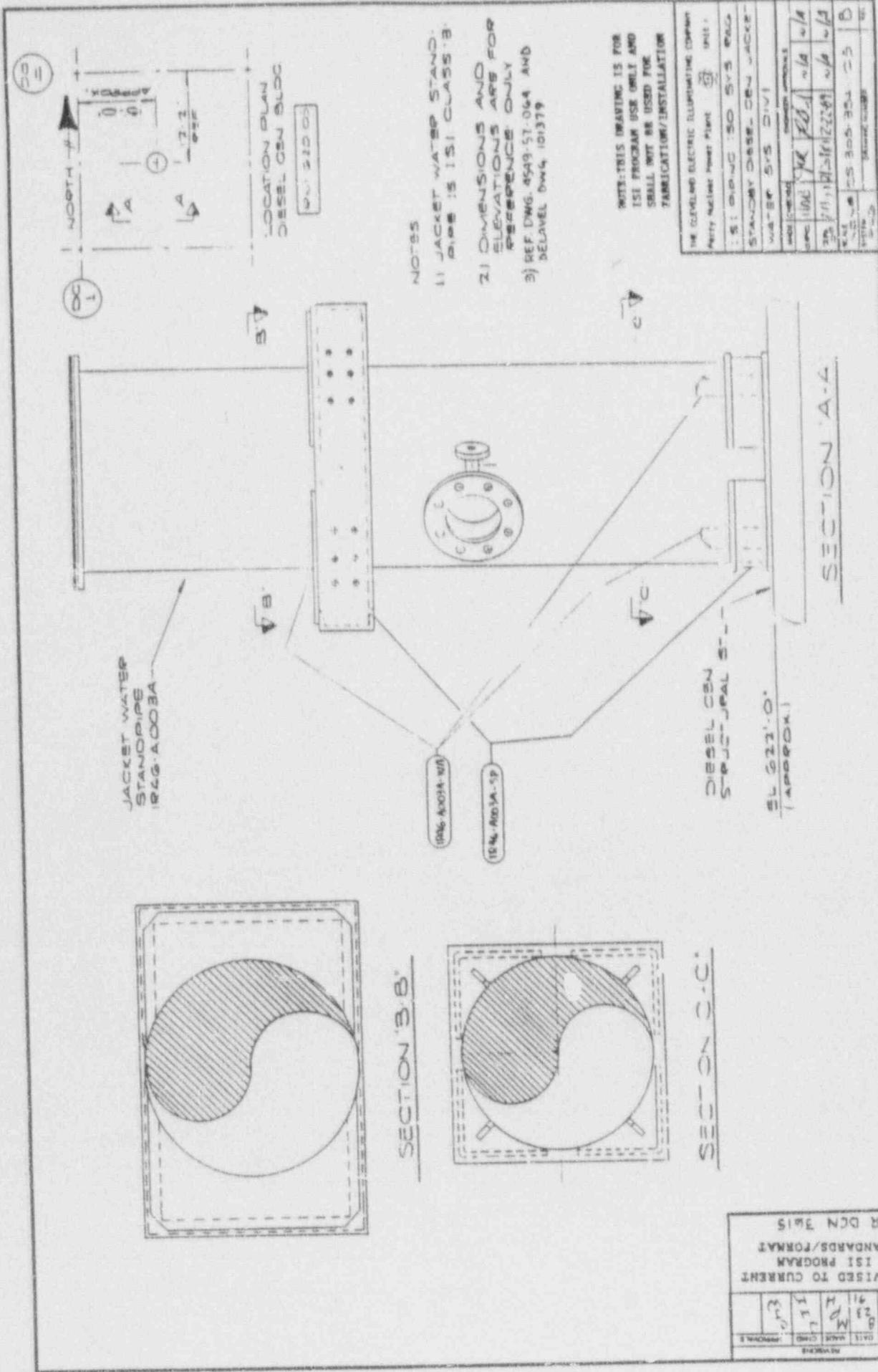
NOTES

- 1) JACKET WATER COOLER IS IS1 CLASS B
- 2) DIMENSIONS AND FINISHES ARE FOR REFERENCE ONLY
- 3) REF DWG. 4349-5T-043 & D-304-342

NOTE: THIS DRAWING IS FOR IS1 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Part Number	Power Plant
SHEET 1	
IS1 ORIGIN	IS1 5-3 PIG
STANDARD DESIGNER JACK	
DATE 5/8 5/2	
REV	DATE
1	11/27/81
2	11/27/81
3	5/5/81
4	5/5/81
5	5/5/81

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
B	25	M	L	M	REVISED TO CURRENT STANDARDS/FORMAT
					PER CLN 5W15



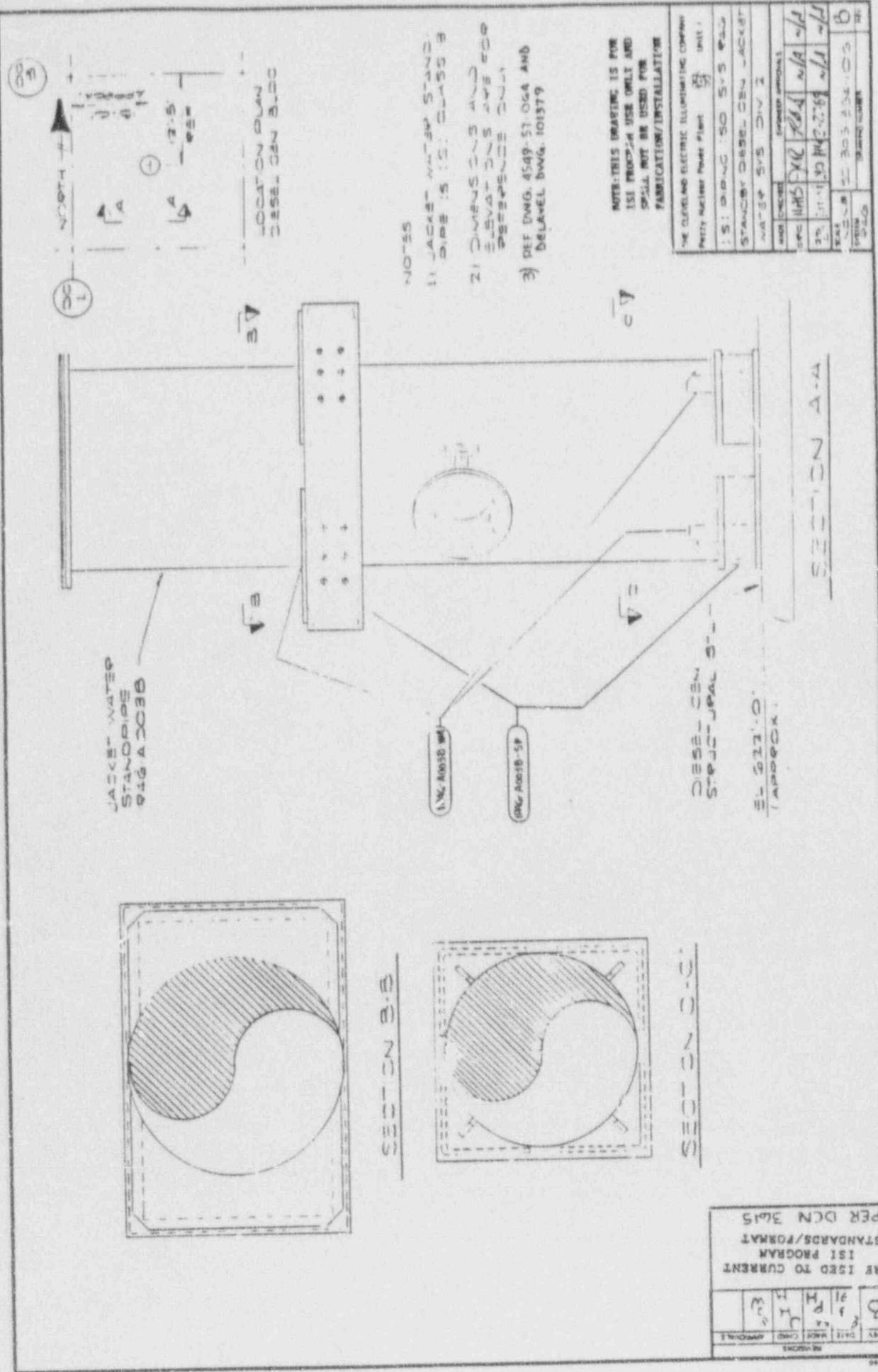
**NOTES**

- 1) JACKET WATER STAND PIPE IS ISI CLASS 'B'.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.
- 3) REF. DWG. 4549-57-064 AND BELVEL DWG. 101379

NOTE: THIS DRAWING IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPED ELECTRIC ILLUMINATING COMPANY	
Part Number	Part Name
51-5120-05	JACKET WATER STAND PIPE
DATE	BY
10/11/11	W. J. [Signature]
REV	DESCRIPTION
1	ISSUE FOR ISI PROGRAM
2	ISSUE FOR ISI PROGRAM
3	ISSUE FOR ISI PROGRAM
4	ISSUE FOR ISI PROGRAM
5	ISSUE FOR ISI PROGRAM
6	ISSUE FOR ISI PROGRAM
7	ISSUE FOR ISI PROGRAM
8	ISSUE FOR ISI PROGRAM
9	ISSUE FOR ISI PROGRAM
10	ISSUE FOR ISI PROGRAM

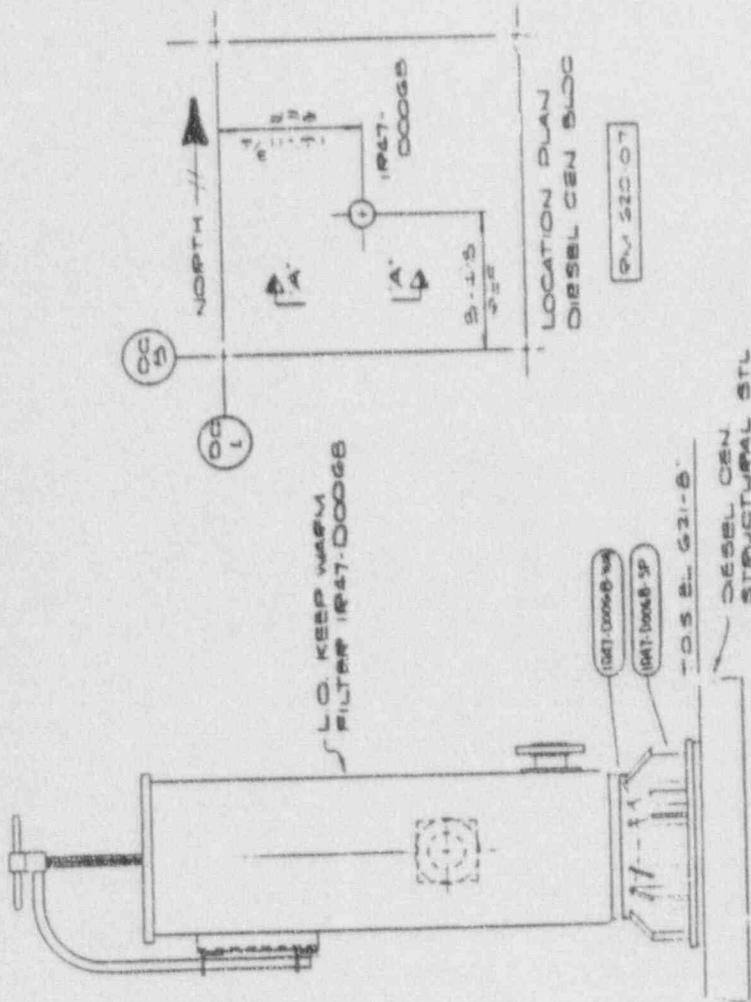
REV	DATE	BY	DESCRIPTION
1	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
2	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
3	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
4	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
5	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
6	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
7	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
8	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
9	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM
10	10/11/11	W. J. [Signature]	ISSUE FOR ISI PROGRAM





NOTES

- 1) LUBE OIL KEEP WARM FILTER IS 151 CLASS B
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF DWG. 4549-57-066 & D-364-362



SECTION A-A

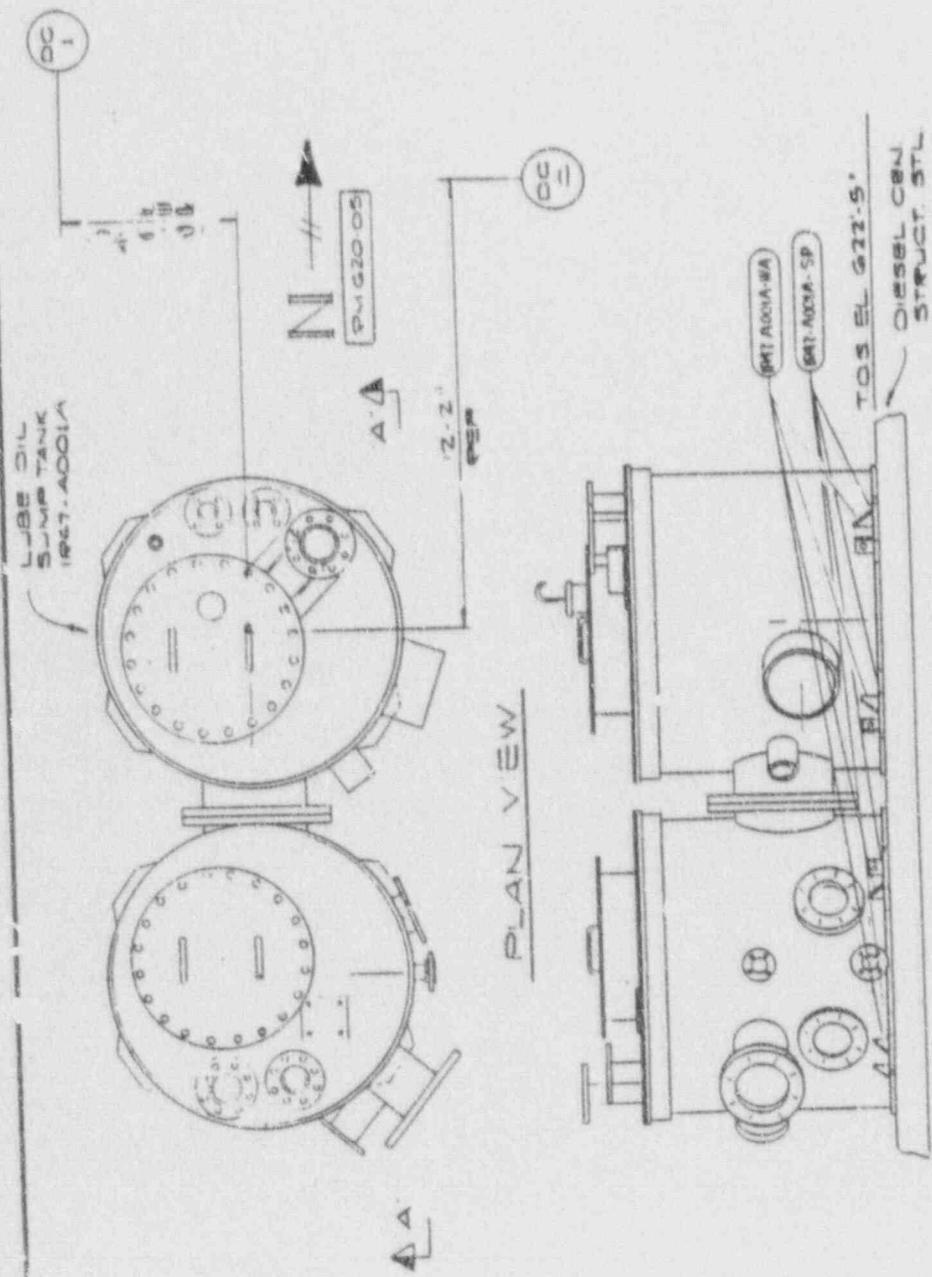
NOTE: THIS DRAWING IS FOR  
 ISI PROGRAM USE ONLY. AND  
 SHALL NOT BE USED FOR  
 FABRICATION/INSTALLATION

THE DEVELOPED ELECTRIC ILLUMINATING COMPANY	
Part Number	Sheet 1 of 1
- S: 51-20 515 P47	
STANDBY DIESEL GEN	
- LUBE OIL 515 DIV 2	
DATE	APPROVALS
20 11 1957	W. J. ...
20 11 1957	...
SCALE	55-305-853-102 D
DATE	...

REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCM 3615
D 25 91
M 25 91
S 25 91
...

NOTES

- 1) LUBE OIL SUMP TANKS  
APR 151 CLASS 3
- 2) DIMENSIONS AND  
ELEVATIONS ARE FOR  
REFERENCE ONLY
- 3) REF. DWG. 4549-ST-087 AND  
D-304-362



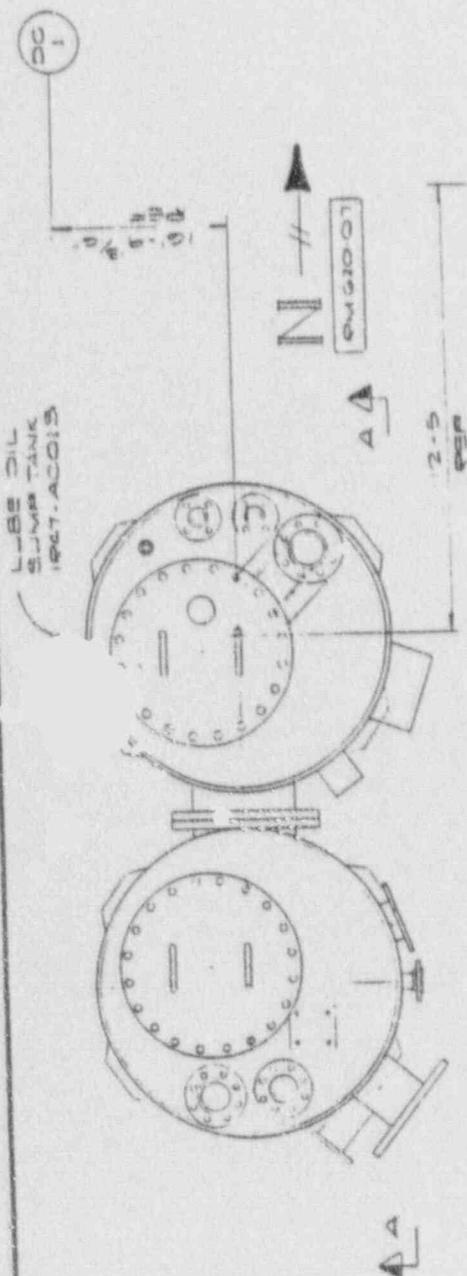
NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE DEVELOPING ELECTRIC ILLUMINATING COMPANY	
Project Number	Power Plant
Sheet	Sheet 1
151 PIPING 130 513 047	
STANDBY DIESEL GEN	
LUBE OIL 513 DIV 1	
DATE	APPROVAL
DESIGNED BY	DR
CHECKED BY	RL
DATE	11/11/80
SCALE	AS SHOWN
REV	BY
1	SS 305 353
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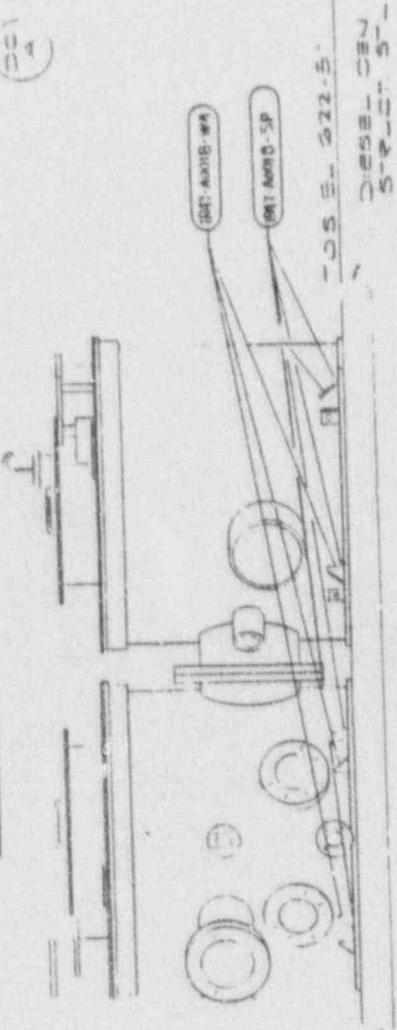
REV	DATE	BY	CHKD	APP'D	REASON
D	11/11/80	SS			REVISED TO CURRENT ISI PROGRAM STANDARDS/FORMAT PER DCN 3015

**NOTES**

- 1) LUBE OIL SUMP TANKS  
APE : S : CLASS 3
- 2) DIMENSIONS AND  
ELEVATIONS ARE FOR  
REFERENCE ONLY
- 3) REF DWG. 4549-51-081 & B-504-362



**PLAN VIEW**



**SECTION A-A**

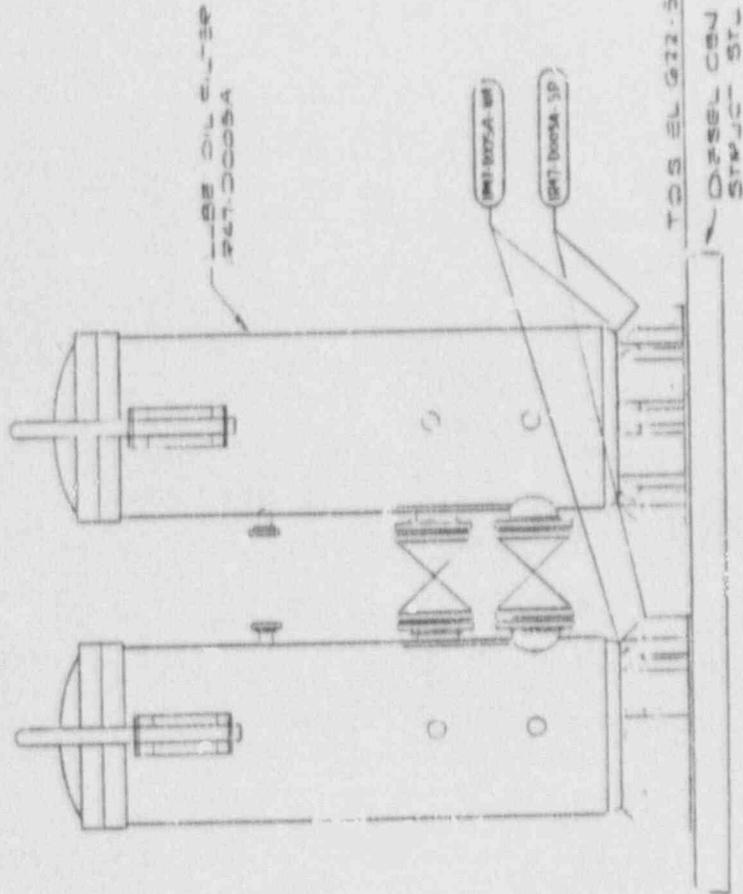
NOTES: THIS DRAWING IS FOR  
ISE PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NAME	Power Plant
PROJECT NUMBER	51-081 & B-504-362
DATE	5-10-51
BY	W. J. ...
CHECKED	...
APPROVED	...
SCALE	AS SHOWN
REVISIONS	
NO.	DESCRIPTION
1	...
2	...
3	...
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10	...

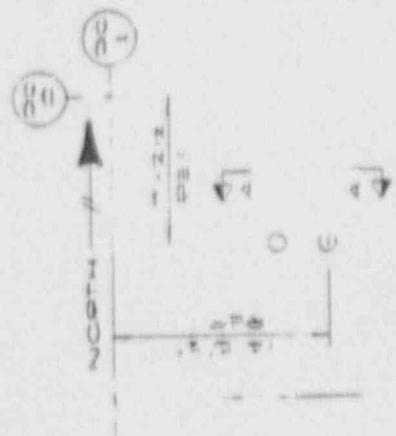
REVISED TO CURRENT ISE PROGRAM STANDARDS/FORMAT PER DCN 3615	
DATE	BY
8/23/51	M. J. ...
10/1/51	W. J. ...
11/1/51	...
12/1/51	...
1/1/52	...
2/1/52	...
3/1/52	...
4/1/52	...
5/1/52	...
6/1/52	...
7/1/52	...
8/1/52	...
9/1/52	...
10/1/52	...
11/1/52	...
12/1/52	...

NOTES

- 1) DIESEL ENGINE IS ISI CLASS B
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) SEE DWG. 4547-SI-043 & D. 304-362



SECTION A-A



LOCATION PLAN  
DIESEL GEN BLOC  
9-230-05

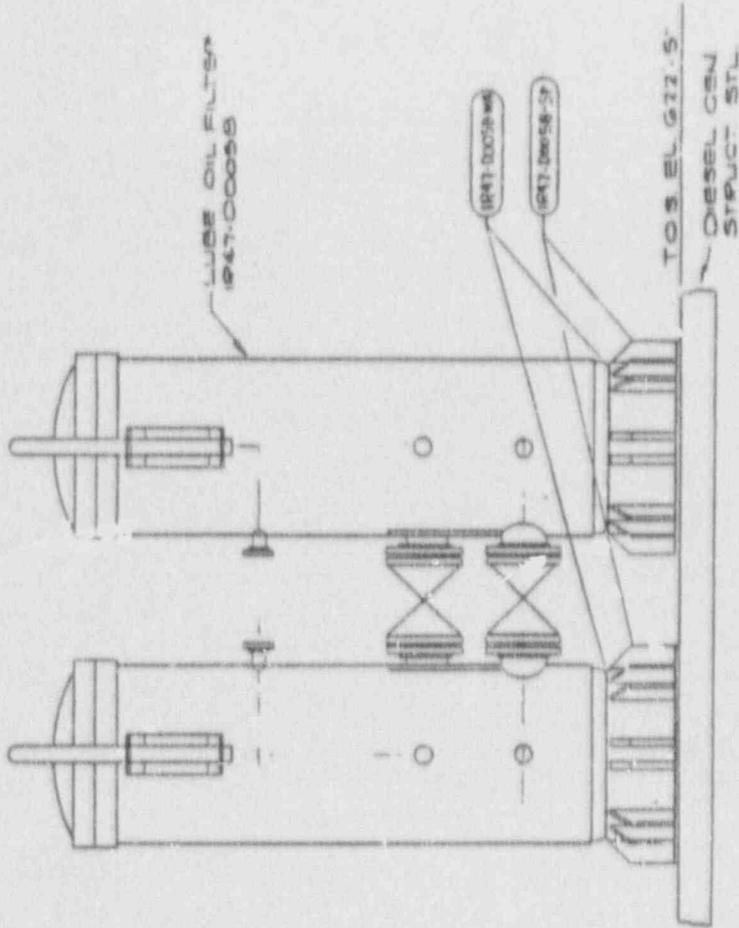
INTERIERS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ALUMINUMING COMPANY	
PROJECT Name: <i>SI-043</i>	DATE: <i>05/11/81</i>
ISI DRAWING NO: <i>9-230-05</i>	SCALE: <i>1/4" = 1'-0"</i>
STANDARD DIESEL GEN	DATE: <i>05/11/81</i>
DATE: <i>05/11/81</i>	BY: <i>W. J. ...</i>
REVISIONS	APPROVED
NO. <i>1</i>	DATE <i>05/11/81</i>
BY <i>W. J. ...</i>	BY <i>W. J. ...</i>
CHKD <i>W. J. ...</i>	CHKD <i>W. J. ...</i>
APP'D <i>W. J. ...</i>	APP'D <i>W. J. ...</i>

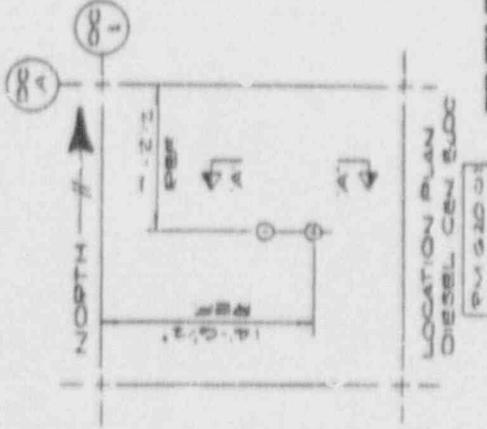
NO. <i>1</i>	DATE <i>05/11/81</i>	BY <i>W. J. ...</i>	CHKD <i>W. J. ...</i>	APP'D <i>W. J. ...</i>
REVISED TO CURRENT ISI PROGRAM STANDARD/FORMAT PER DCN 3015				

NOTES

- 1) LUBE OIL FILTER IS I S I.
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY
- 3) REF. DWG. 4549-57-045 + D-304-562

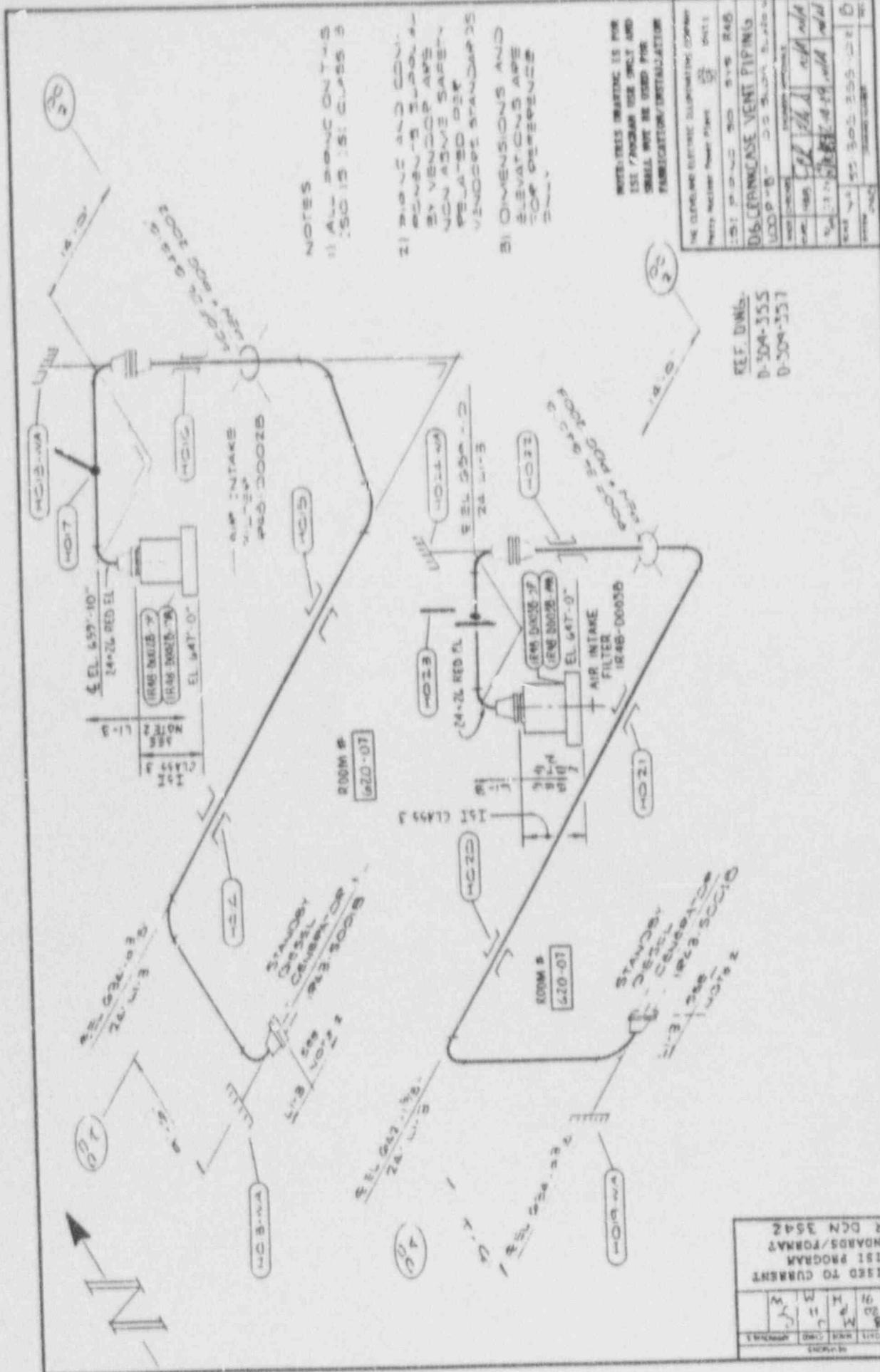


SECTION A-A



NOTES: THIS DRAWING IS FOR THE DIESEL GEN ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE DEVELOPER: JENSEN ILLUMINATING COMPANY	
PARTY: NUCLEAR POWER PLANT	
PROJECT: 50-515-50-1	
STANDARD: DIESEL GEN	
LUBE OIL SYS DIV 2	
DATE: 11/28/58	BY: [Signature]
SCALE: 1:1	REVISIONS: [Table]
APP'D: [Signature]	NO. 505 515-50-1
REV. 1	REVISED TO CURRENT STANDARDS/FORMAT PER DCM 5615



NOTES

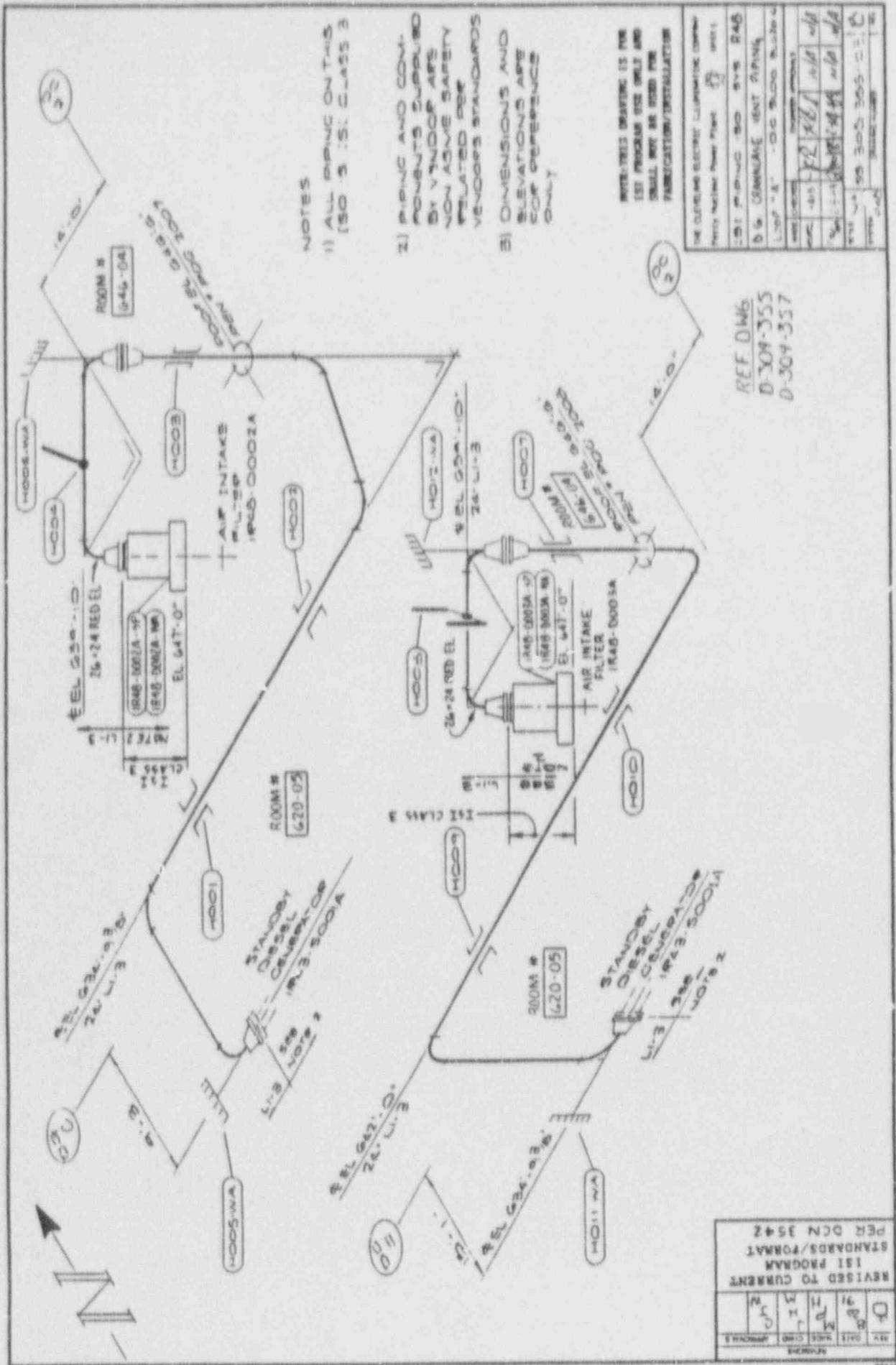
- 1) ALL ROOMS ON THIS SHEET ARE TO BE CLASSIFIED AS CLASS 3.
- 2) ABOVE AND BELOW ROOMS SHOULD BE VENTED TO THE EXTERIOR BY VENDOR. AIR SHALL BE ABOVE GRADE. VENDOR SHALL BE RESPONSIBLE FOR VENTING STANDARDS.
- 3) DIMENSIONS AND ELEVATIONS ARE TOP OF DECK UNLESS OTHERWISE NOTED.

NOTES: THIS DRAWING IS FOR USE IN THE DESIGN AND CONSTRUCTION OF THE SYSTEM. IT SHALL NOT BE USED FOR FABRICATION/INSTALLATION.

THE CLEVELAND ELECTRIC SUPPLY COMPANY	
Part No.	10-01
Rev.	01
DATE: 10-10-68	
BY: [Signature]	
CHECKED: [Signature]	
APPROVED: [Signature]	
PROJECT: 10-01	
DRAWING NO.: 10-01	
SHEET NO.: 10-01	
TOTAL SHEETS: 10-01	

REF. DIMS:  
D-504-355  
D-504-357

REVISED TO CURRENT	D	10	10
151 PROGRAM	H	11	11
STANDARDS/FORMAT	M	11	11
PER DCM 3542	W	11	11



**NOTES**

- 1) ALL PIPING ON THIS (ISO 5 : S1 CLASS 3
- 2) PIPING AND COMPONENTS SUPPLIED BY VENDOR ARE NON ASME SAFETY RELATED PER VENDOR'S STANDARDS
- 3) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

NOTES THIS DRAWING IS FOR THE 1ST PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC LIGHTING COMPANY	DATE	BY	CHKD
Verify National Power Plant	03/11/88	WJL	WJL
NO. 1	P. H. C. 100	818	R4B
NO. 2	UNIFORM BENT PIPING		
NO. 3	ISO 5 CLASS 3		
NO. 4	ISO 5 CLASS 3		
NO. 5	ISO 5 CLASS 3		
NO. 6	ISO 5 CLASS 3		
NO. 7	ISO 5 CLASS 3		
NO. 8	ISO 5 CLASS 3		
NO. 9	ISO 5 CLASS 3		
NO. 10	ISO 5 CLASS 3		
NO. 11	ISO 5 CLASS 3		
NO. 12	ISO 5 CLASS 3		
NO. 13	ISO 5 CLASS 3		
NO. 14	ISO 5 CLASS 3		
NO. 15	ISO 5 CLASS 3		
NO. 16	ISO 5 CLASS 3		
NO. 17	ISO 5 CLASS 3		
NO. 18	ISO 5 CLASS 3		
NO. 19	ISO 5 CLASS 3		
NO. 20	ISO 5 CLASS 3		

REF DWG  
D-304-355  
D-304-357

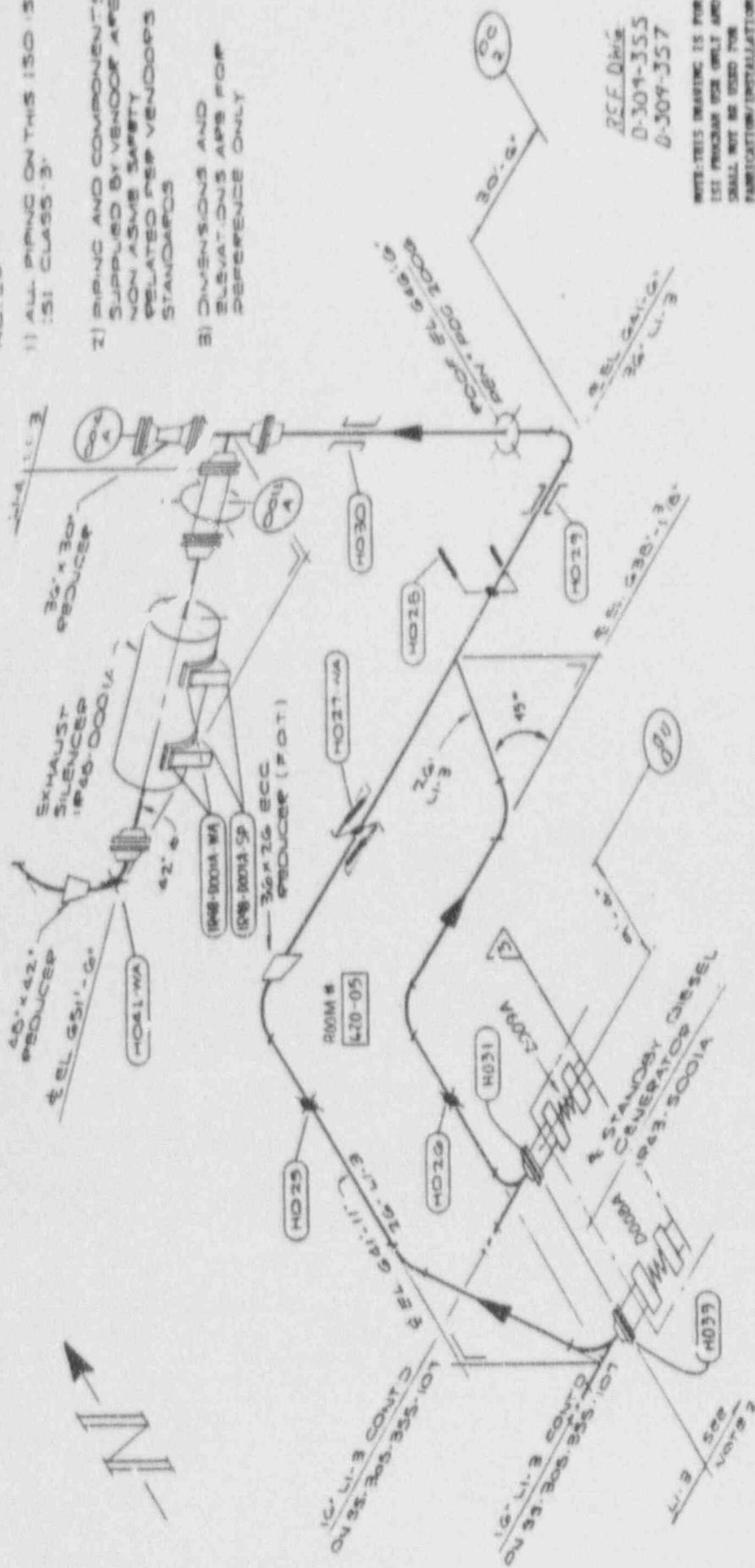
NO.	DATE	BY	CHKD
1	03/11/88	WJL	WJL
2			
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REVISED TO CURRENT  
1ST PROGRAM  
STANDARDS/FORMAT  
PER DCN 3542



**NOTES**

- 1) ALL PIPING ON THIS ISO IS IS1 CLASS 'B'
- 2) PIPING AND COMPONENTS SUPPLIED BY VENDOR ARE NON ASME SAFETY RELATED PER VENDORS STANDARDS
- 3) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY



REF. DIM'S  
D-309-355  
D-309-357

NOTE: THIS DRAWING IS FOR  
ISI PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
Supply Machine Paper Form 43 0013 1

ISI PIPING ISO	5/15	R 48
IS1 CRANKCASE VENT PIPING		
ISO 2" 1/2 834 BL 023-0		
DATE	11/18/81	
BY	WLB	
CHECKED	WLB	
APPROVED	WLB	
SCALE	AS SHOWN	
PROJECT NO.	55 303 205-05	B
DATE	11/18/81	

REV	DATE	BY	DESCRIPTION
1	11/18/81	WLB	REVISED TO CURRENT ISI PROGRAM STANDARDS/FCMAT PER DCN 3542

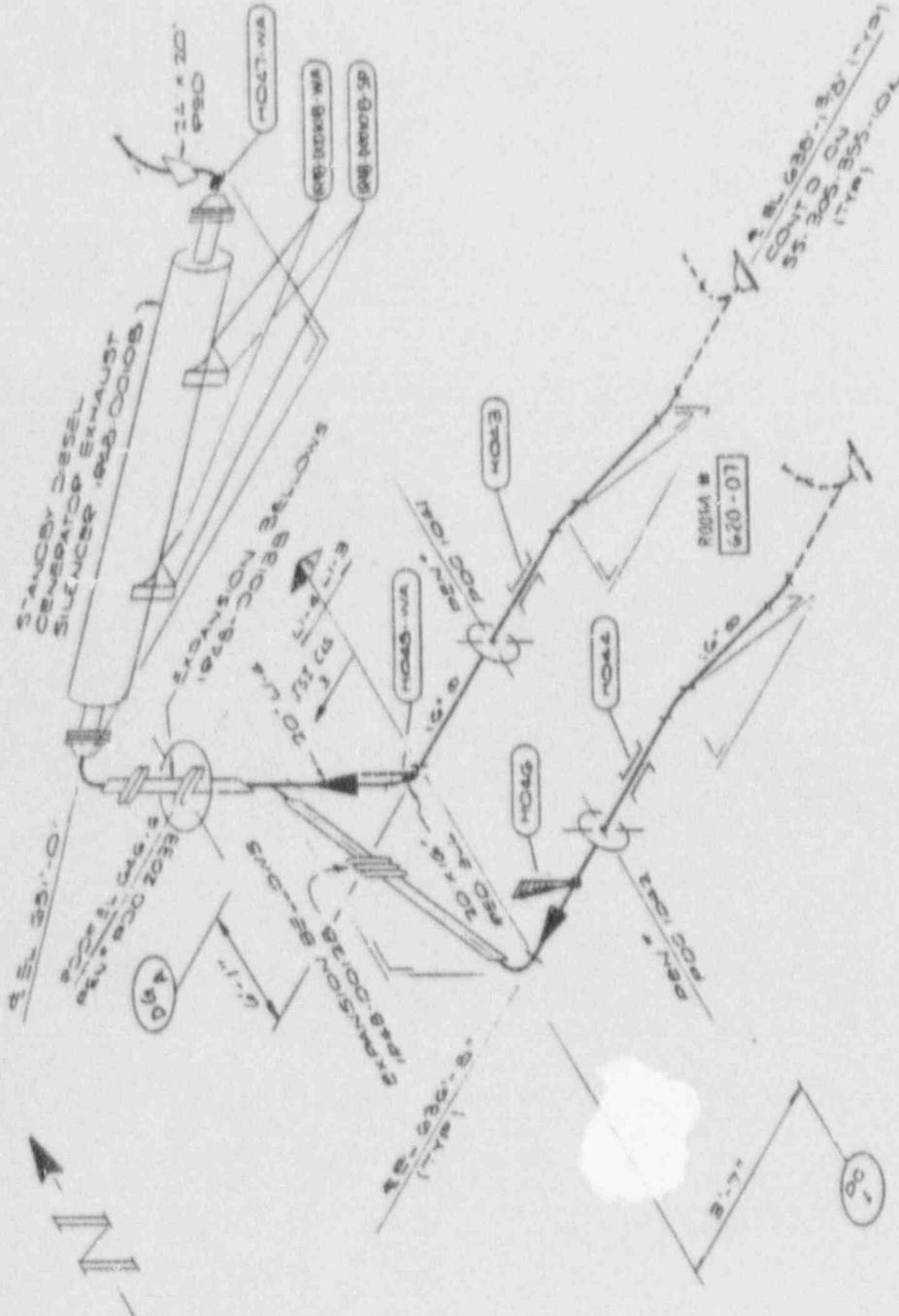
NOTES

- 1) ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES UNLESS OTHERWISE SPECIFIED
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

REF. DWG.  
D-304-355  
D-304-357

NOTE: THIS DRAWING IS FOR THE 151 PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC SUPPLY COMPANY	
PROJECT NUMBER	Sheet 11
DATE	1960
BY	RAG
CHECKED BY	SEE E. ENTRANCE
SCALE	AS SHOWN
APP'D	[Signature]
DATE	11/11/60
REV	55-304-355-1101
BY	[Signature]
DATE	11/11/60



REVISED TO CURRENT 151 PROGRAM STANDARDS/FORMAT	PER DCN 3542
DATE	11/11/60
BY	[Signature]
CHECKED BY	[Signature]
APP'D	[Signature]
DATE	11/11/60

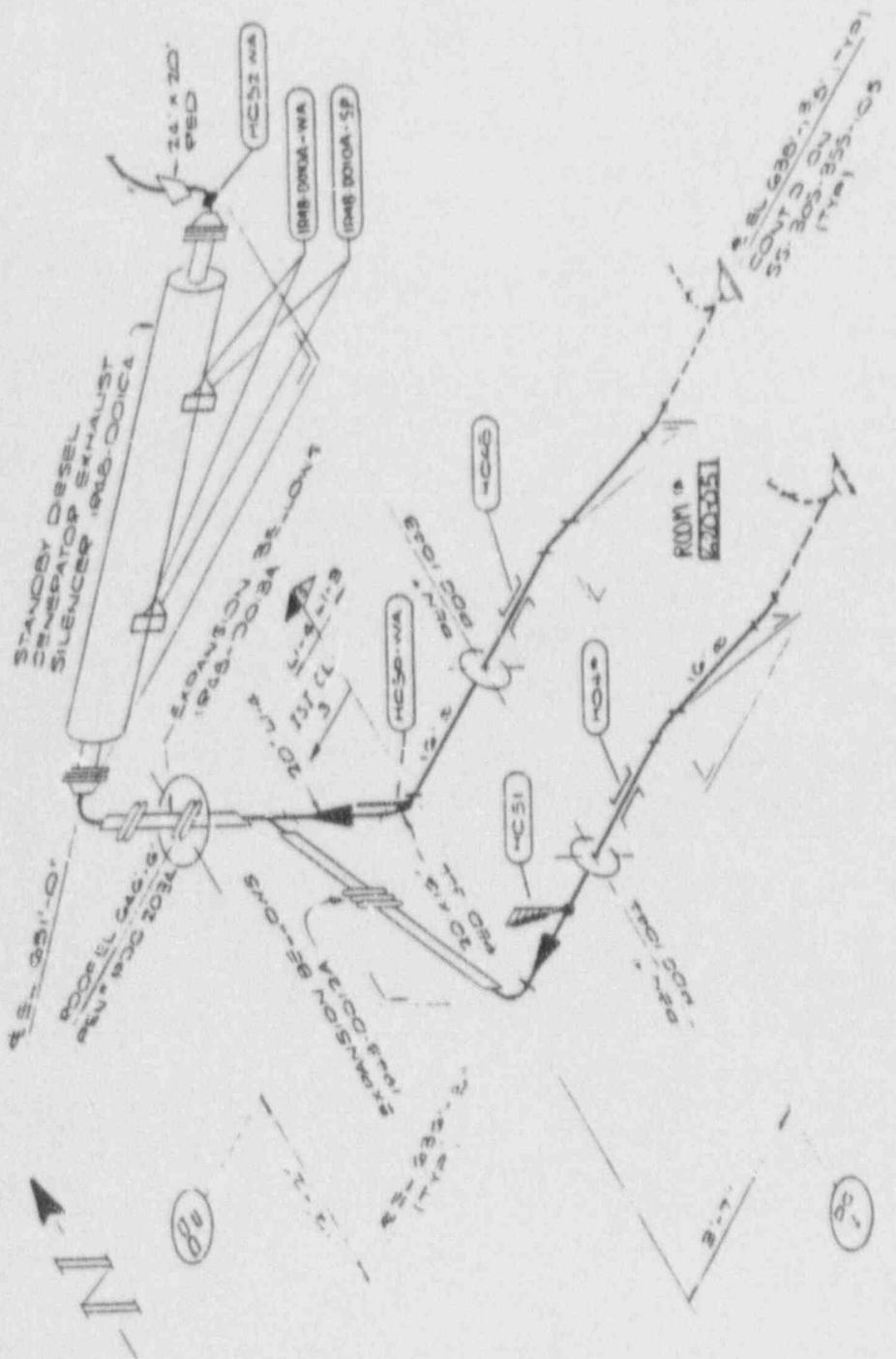
NOTES

- 1) ALL PIPING ON THIS ISD IS CLASS 2
- 2) DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY

SEE GWS  
D-304-355  
D-304-357

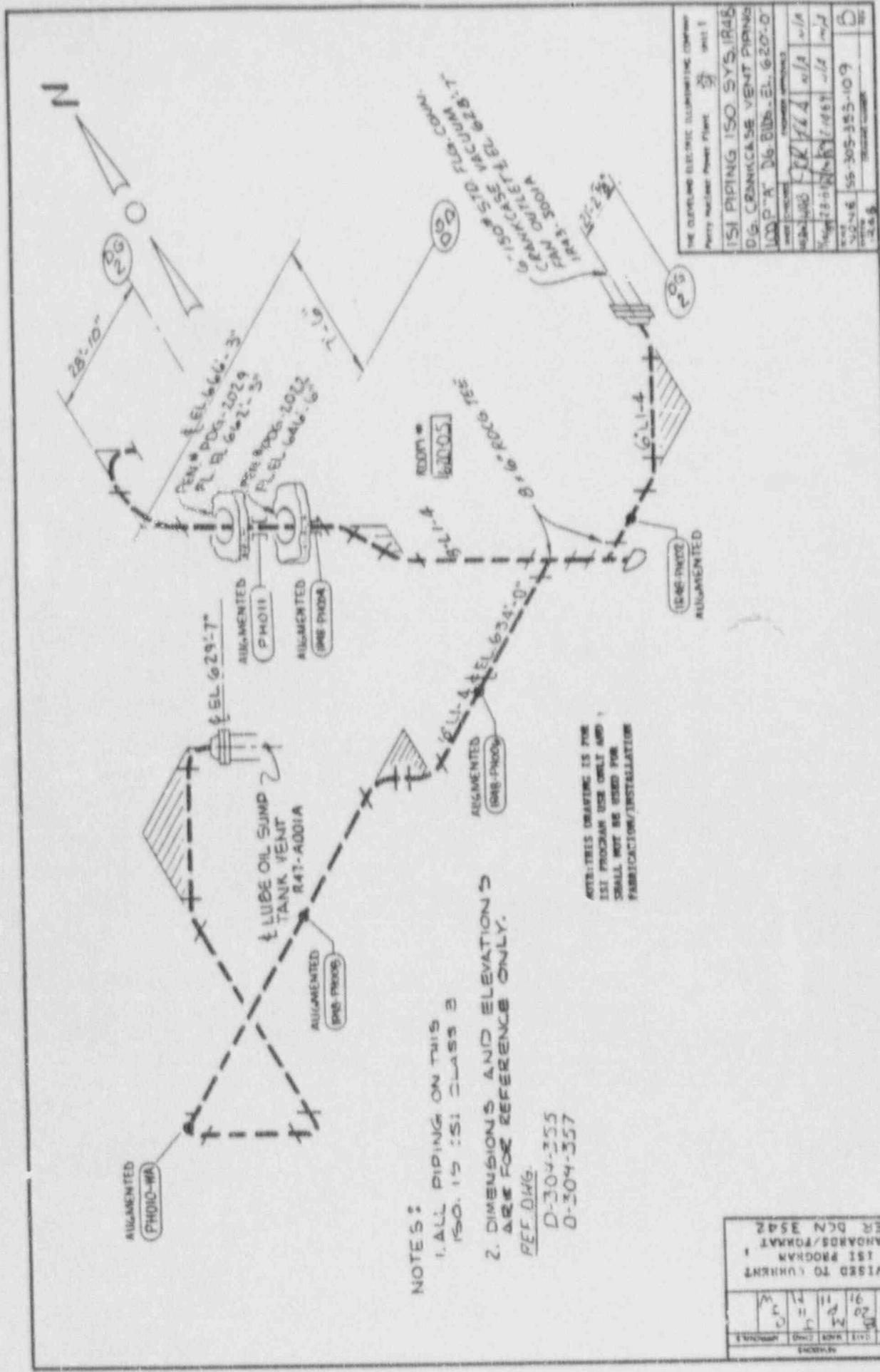
INTEREST DRAWING IS FOR  
1ST PROGRAM USE ONLY AND  
SHALL NOT BE USED FOR  
FABRICATION/INSTALLATION

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PROJECT NUMBER	Sheet 1
DATE	NOV 20 1953
BY	W. J. ...
CHECKED	...
APPROVED	...
TITLE	55 304-355-110
PROJECT NUMBER	...



REVISED TO CURRENT	PER DCN 3542
1ST PROGRAM	STANDARDS/FORMAT
DATE	BY
...	...





THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
Perry Nuclear Power Plant UNIT 1	
ISO PIPING ISO SYS. IR48	
D/G. CRANKCASE VENT PIPING	
DATE	11/14/81
BY	JLH
CHECKED	11/18/81
BY	JLH
SCALE	AS SHOWN
PROJECT NO.	55-305-355-109
REV.	1

NOTES:

1. ALL PIPING ON THIS ISO 15 CLASS B
2. DIMENSIONS AND ELEVATIONS ARE FOR REFERENCE ONLY.

REF. DWG.  
 D-304-355  
 D-304-357

NOTE: THIS DRAWING IS FOR ISO PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION

REVISED TO CURRENT ISO PROGRAM	PER DCN 3542
STANDARDS/FORMAT	
DATE	11/14/81
BY	JLH
CHECKED	11/18/81
BY	JLH