



An Exelon/British Energy Company

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**Clinton Power Station**

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Docket No. 50-461

Document Control Desk  
Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Submittal of Current Revisions for Appendix IV and Appendix V of the Clinton Power Station Inservice Inspection Program Manual

Dear Madam or Sir:

This letter transmits the current revisions for Appendix IV and Appendix V of the Clinton Power Station (CPS) Inservice (ISI) Inspection Program Manual. (The CPS ISI Program Manual presents and describes in part, the elements, scope and overall controls in place for implementation of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI.) Appendix IV is the CPS Inservice Examination Plan, Revision 6, dated September 11, 2000. Appendix V is the CPS Pump and Valve Testing Program Plan, Revision 24, dated June 20, 2000. Updates of these appendices are provided to the NRC on an approximately annual basis.

Sincerely yours,

Michael A. Reandeau  
Director - Licensing

JLP/alo

Attachments

cc: NRC Clinton Licensing Project Manager  
NRC Resident Office, V-690  
Regional Administration, Region III, USNRC  
Illinois Department of Nuclear Safety

A047

Attachment 1  
to U-603438

***Appendix IV, Revision 6***

Revision: 6

Date: 9-11-00 *initials*  
~~6-26-2000~~

APPENDIX IV  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN

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ANII Concurrence: [Signature] 11 Sept 2000

## TABLE OF CONTENTS

	<u>Page</u>
Inservice Inspection Plan	
Cover Sheet 1	1
Table of Contents	2
1.1 General	3
1.2 Exceptions, Clarifications, Exemptions and Augmented Requirements	4
1.3 Records	9
1.4 Examination Methods and Personnel Qualifications	9
1.5 Application of Code Cases	12
1.6 Reference Document and Control of Plan Revisions	13
1.7 Repair/Replacement	13
1.8 Appendix VIII, Performance Demonstration for Ultrasonic Examination Systems	14
TABLE I Inservice Examination Plan Requirements	I-1
KEY	I-2
CLASS 1 Components	I-3
CLASS 2 Components	I-18
CLASS 3 Components	I-28
CLASS 1, 2, AND 3 COMPONENT SUPPORTS PROGRAM	I-40
TABLE II Inservice Examination Plan Component and Piping Examination Boundary	II-1
CLASS 1 Component	II-2
CLASS 2 Component	II-21
CLASS 3 Component	II-49
CLASS 1, 2, and 3 COMPONENT SUPPORTS	II-64
TABLE III Clinton Power Station Unit 1 Piping Line List References	III-1

## 1.1 General

The Code of Federal Regulations Title 10 Part 50 Subpart 55a (10CFR50.55a) requires Clinton Power Station (CPS) to perform Inservice Examination in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. In accordance with 10CFR50.55a, the Section XI Code Edition and Addenda's to be utilized shall be the one published in the Federal Register 12 months prior to the start of successive 10 year interval. Clinton Power Station (CPS) second ten (10) year interval started from January 1, 2000. Therefore, the Code of Section XI shall be 1988 Addenda through the 1989 Edition. Section XI of ASME, 1988 Addenda through the 1989 Edition, requires AmerGen to prepare Inservice Examination plans and schedules and submit these plans and schedules to enforcement and regulatory authorities having jurisdiction at the plant site.

As specified in Paragraph IWA-1400 of ASME Section XI, Clinton Power Station bears the overall responsibility for implementation of an ISI program. These responsibilities include the following:

- A. Determining the appropriate Code Class(es) for each component of the power plant, identifying the system boundaries for each class of components subject to inspection, and identifying the components exempt from examination requirements;
- B. Designing and arranging system components to include allowances for adequate access and clearances for conduct of examinations and tests;
- C. Preparing plans, schedules, and In Service Inspection Summary Reports and submitting these plans and reports to the enforcement and regulatory authorities having jurisdiction at the plant site;
- D. Preparing written examination instructions and procedures, including diagrams or system drawings, that identify the extent of areas of components subject to examination;
- E. Verifying the qualification to the required level of responsibility of personnel who perform the examinations;
- F. Arranging an agreement with an Authorized Inspection Agency to provide inspection services;
- G. Performing required examinations and tests;
- H. Recording examination and tests results in a manner that provides a basis for evaluation and that facilitates comparison with subsequent examination results;
- I. Evaluating examination and tests results;

- J. Performing repairs and installation of replacements in accordance with written programs and plans;
- K. Maintaining adequate inspection, examination, test, and repair and replacement records such as radiographs, diagrams, drawings, examination and test data, descriptions of procedures used, and evidence of personnel qualifications;
- L. Retaining all inspection, examination, test, and repair and replacement records for the service lifetime of the component or system;
- M. Retaining and maintaining all basic calibration blocks used for ultrasonic examination of the components;
- N. Documenting a Quality Assurance Program in accordance with the following:
  - (1) Title 10, Code of Federal Regulations, Part 50; or
  - (2) ASME NQA-1 Parts II and III, Basic Requirements and Supplements;
- O. Recording regions in ferritic steel components where acceptance standards have been modified as required in IWB-3410.

The Clinton Power Station, Unit 1, Inservice Examination Plan defines the requirements for the second 10 years of inservice examination of Class 1, Class 2, and Class 3 components, component supports, and integral attachments. The Inservice Examination plan and schedules for Class CC concrete components (Subsection IWL) and metallic liners, penetration liners of Class CC components and their integral attachments (Subsection IWE) are included as Appendices XV and XVI to the Clinton Power Station (CPS) ISI Program Manual.

This plan is presented in two parts. The first part presents the component examination requirements (Table I) in accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI 1988 Addenda through the 1989 Edition. The second part (Table II) is an examination table which provides a listing of components which are subject to the examination requirements of Table I. This table provides information relative to the examinations required, exemptions from examination, augmented requirements, and relief request information where applicable. By utilizing the information provided in Table II, applying the Code examination requirements (Table I), and following the inspection requirements of Program B (IWB-2400, IWC-2400, IWD-2400; and IWF-2400), detailed schedules have been developed for the second 10-year inservice examination interval. These schedules are available for review by the enforcement and regulatory authorities having jurisdiction at the plant site and are included as Appendices VI and VII to the Clinton Power Station (CPS) ISI Program Manual.

In accordance with 10CFR50, this plan is in compliance, where possible, with the applicable requirements of the 1988 Addenda through the 1989 Edition. Every attempt will be made to obtain maximum Code compliance. Where Code compliance is not achievable, relief requests will be submitted. These relief requests will be included in Appendix III of the CPS ISI Program Manual.

1.2 Exceptions, Clarifications, Exemptions,  
and Augmented Requirements

This plan has been developed in accordance with the requirements of ASME Section XI, 1988 Addenda through the 1989 Edition (1989 Edition), subject to the following exceptions, clarifications, exemptions, and augmented requirements:

A. Class 1 components and piping were exempted in accordance with the following subparagraphs of 1989 Edition:

IWB-1220(a) Components that are connected to the Reactor Coolant System and part of the reactor coolant pressure boundary and that are of such a 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 onsite emergency power.

IWB-1220 (b) (1) Piping of 1-inch nominal pipe size and smaller, except for steam generator tubing;

(2) Components and their connections in piping of 1-inch nominal pipe size and smaller;

IWB-1220 (c) Reactor vessel head connection and associated piping, 2-inch nominal pipe size and smaller, made inaccessible by control rod drive penetrations.

B. Class 2 components and piping within Residual Heat Removal Systems (RHR), Emergency Core Cooling Systems (ECCS) and Containment Heat Removal Systems (CHR) were exempted in accordance with the following subparagraphs of 1989 Edition:

IWC-1221 (a) Vessels, piping, pumps, valves, and other components of 4-inch nominal pipe size and smaller in all systems.

IWC-1221 (c) Component connections of 4-inch nominal pipe size and smaller (including nozzles, socket fittings, and other connections) in vessels, piping, pumps, valves, and other components of any size in all systems.

- IWC-1221 (f) Piping and other components of any size beyond the last shutoff valve in open ended portions or systems that do not contain water during normal plant operating conditions.
  
- C. Class 2 components and piping other than Residual Heat Removal Systems (RHR), Emergency Core Cooling Systems (ECCS) and Containment Heat Removal Systems (CHR) were exempted in accordance with the following subparagraphs of 1989 Edition:
  - IWC-1222 (a) Vessels, piping, pumps, valves, and other components of 4-inch nominal pipe size and smaller.
  
  - IWC-1222 (b) Component connection of 4-inch nominal pipe size and smaller (including nozzles, socket fittings, and other connections) in vessels, piping, pumps, valves, and other components of any size.
  
  - IWC-1222 (c) 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°F.
  
  - IWC-1222 (d) 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 operating conditions.
  
- D. In accordance with subparagraph IWC-1230 Class 2 piping support members and piping support components that are encased in concrete will be exempted from the examination requirements of IWC-2500.
  
- E. Class 3 integral attachments of supports and restraints to components were exempted from the visual examination VT-3 in accordance with the following subparagraphs of 1989 Edition:
  - IWD-1220.1 Integral attachments of supports and restraints to components that are 4-inch nominal pipe size and smaller within the system boundaries of Examination Categories D-A, D-B, and D-C of Table IWD-2500-1.
  
  - IWD-1220.2 Integral attachments of supports and restraints to components exceeding 4-inch nominal pipe size may be exempted from the visual examination VT-3 or Table IWD-2500-1 provided:

- a) the components are located in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and 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.
  
- F. Augmented Requirements - The CPS Updated Safety Analysis Report (USAR) Mechanical Engineering Branch (MEB) [Draft Safety Evaluation Report (DSER)] Item No. 11 for Class 1 and Section 6.6.8 for Class 2 require inspection of all piping welds between containment isolation valves (For those systems which do not have an inboard valve designated as a containment isolation valve per CPS Technical Specification Table 3.6.4-1, the first valve inside the containment shall be considered the penetration boundary in satisfying this requirement) as follows:
  - (1) Class 1 Piping welds greater than one (1) inch nominal pipe size, including pipe to valve welds, and associated containment head fitting welds.
  - (2) Class 2 High energy piping welds greater than four (4) inches nominal pipe size, including pipe to valve welds, and associated containment head fitting welds as well as all socket welds.
  
- G. The CPS USAR (Section 6.6.9) requires ultrasonic testing of 10% of thin wall (between 3/8" and 1/2") Class 2 RHR system piping welds which would require only surface examinations per the Code. The 1989 Edition of Section XI requires CPS to perform ultrasonic testing of thin wall Class 2 system piping welds. Therefore, the augmented requirements of performing ultrasonic testing of 10% of thin wall Class 2 RHR system piping welds has been met by this second 10-year interval plan.
  
- H. Augmented Requirement - The CPS USAR requires Feedwater (FW) nozzles and the Control Rod Drive (CRD) return line nozzle, which is capped, to be examined using the methods, techniques, and frequency outlined in NUREG-0619.
  
- I. Augmented Requirement - Austenitic stainless steel piping components susceptible to Intergranular Stress Corrosion Cracking (IGSCC) shall be examined in accordance with AmerGen response to NRC Generic Letter 88-01, NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping and NRC Request for Additional Information - CPS response to Generic Letter 88-01 (letters from D. P. Hall to U. S. Nuclear Regulatory Commission, U-601217, dated July 29, 1988, and U-601533, dated September 21, 1989, respectively). Performing ultrasonic examination in accordance with Appendix VIII of the ASME Section XI meets the GL 88-01 requirements.

- J. Augmented Requirement - Evaluation and repair for any cracks detected on piping susceptible to IGSCC shall be in conformance with IWB-3600 of the ASME Section XI 1986 Edition.
- K. Augmented Requirement - IP will expand the examination area of the Reactor Pressure Vessel nozzle-to-safe end weld where alloy 182 buttering is applied and extended into the nozzle bore area as recommended in IP response to General Electric Service Information Letter (GE SIL) No. 455, Rev. 1 (Memorandum from F. A. Spangenberg to File, Y-207823, dated June 13, 1988). Also, IP will incorporate the ultrasonic testing technique and recommendations on repair processes (when required) for nozzle to safe end welds where alloy 182 buttering is applied as recommended in IP response to GE SIL No. 455, Revision 1 Supplement 1 (Memorandum from R. D. Freeman to D. L. Holtzschler, Y-92355, dated September 25, 1989).
- L. Augmented Requirement - Visual inspection of Shroud Support Access Hole Cover welds shall be performed as recommended in IP response to GE SIL No. 462, Supplement 1 and IE Information Notice No. 88-03 (Memorandum from J. D. Weaver to File, Y-210899, dated June 30, 1989).
- M. (Intentionally left blank)
- N. Augmented Requirement - Examinations of the reactor pressure vessel performed using both manual and mechanized examination techniques from the outside surface of the vessel shall be in accordance with Appendix VIII of the ASME Section XI. Examinations of the RPV shell to flange and RPV head to flange will be in compliance with Regulatory Guide 1.150, Revision 1, Appendix A.
- O. NUREG-0803, Generic Safety Evaluation Report Regarding Integrity of BWR Scram System Piping, Section 5.1, page 5-3 requires inspection of Scram Discharge Volume system piping in accordance with ASME Section XI. However, since Scram Discharge Volume piping is required to be inspected by the ASME Section XI Code, no additional requirements were imposed.
- P. Augmented Requirement - Visual inspection of jet pumps shall be performed as recommended in IP response to GE SIL NO. 330 (Memorandum from F. A. Spangenberg to File, Y-204962, dated May 21, 1987). GE SIL 330 includes the concerns expressed in IE Bulletin 80-07 and NUREG 3052.
- Q. Augmented Requirement - Visual inspection of jet pumps and sensing lines shall be performed as recommended in IP response to GE SIL 420 (Memorandum from F. A. Spangenberg to File, Y-205267, dated June 29, 1987).

- R. Augmented Requirement - Visual inspection of core spray spargers shall be performed as recommended in IP response to GE SIL NO. 289, Revision 1. Remote underwater TV camera resolution shall be as recommended in IE Bulletin No. 80-13. Any cracks identified in the core spray spargers shall be reported as recommended in IE Bulletin No. 80-13.
- S. Visual inspection of integral attachments on Class 3 components and piping systems not specified in the Code Table IWD-2500-1 (categories D-A, D-B, and D-C) is considered outside ASME Section XI scope.
- T. Functional tests of 10% of each type of snubber shall be performed as required by the Code and CPS Operational Requirement Manual (ORM) and as specified in the letter from F. A. Spangenberg to A. B. Davis of NRC, U-602059, dated October 19, 1992. (The NRC will be notified of any change to the functional test sample plan).
- U. Augmented Requirement - visual inspection of Intermediate Range Monitor (IRM) and Source Range Monitor (SRM) dry tubes shall be performed as recommended in IP response to GE SIL NO. 409 (Memorandum from F. A. Spangenberg to File, Y-204660, dated April 8, 1987).
- V. Visual inspection of snubbers is required to be performed in accordance with the first Addenda to ASME/ANSI OM-1987, Part 4 (published in 1988). Part 4 of OM, paragraph 2.3.3 allows CPS to utilize Operational Requirements Manual (ORM) on snubbers, which was approved by NRC. Therefore, visual inspection of snubbers will be performed in accordance with CPS ORM. The requirements of the CPS ORM is based on Generic Letter 90-09 recommendation.
- W. Augmented Requirement - IP was performing visual inspection of steam dryer as recommended in IP response to GE SIL No. 474 (Memorandum from J. D. Weaver to File, Y-210684, dated May 22, 1989). (These recommendations are same as GE RICSIL No. 023.) A Condition Report 1-89-01-162 was initiated as a result of an unacceptable indication identified during RF-1. This CR was continuously assessing the condition of this crack and identifying the next visual inspection interval. The latest evaluation of this CR, 1-89-01-162 Rev. 2, identified the next visual inspection interval.
- X. Inspection of core shroud shall be performed as recommended in IP response to Generic Letter 94-03, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors" (letter from M. T. Coyle to NRC, U-603386, dated July 17, 2000).

- Y. IP was performing visual inspection of shroud head bolts as recommended in IP response to GE SIL No. 506 (Memorandum from W. S. Iliff to File, Y-213474, dated June 14, 1991). IP has implemented modification NB-030 which replaces these bolts with self contained locking mechanism. Therefore, GE SIL No. 506 is not applicable for future inspections.
- Z. Examination of some piping/components thought to be susceptible to thermal stratification was performed during the second refueling outage as recommended in IP response to Supplement No. 3 of I.E. Bulletin No. 88-08 (Letter from J. S. Perry to U. S. Nuclear Regulatory Commission, U-601693, dated June 22, 1990). IP revised its response to Supplement 3 (Letter from J. S. Perry to U. S. Nuclear Regulatory Commission, U-601958, dated May 30, 1992) which deletes inspection requirements.

### 1.3 Records

Examination records and documentation of all results provide the basis for evaluation and facilitate comparison with previous results and subsequent inspections. In accordance with the ASME Section XI, IWA-6000, these records shall be maintained for the plant life.

### 1.4 Examination Methods and Personnel Qualifications

Examination methods listed for all nonexempt Class 1, Class 2, and Class 3 components and piping shall be in accordance with ASME Section XI and Section V except where other requirements are specified. Later Edition(s) of ASME Section V may be utilized as an Alternative Examination.

#### A. Visual Examination

##### 1. Visual Examination VT-1

- (a) The VT-1 visual examination shall be conducted to determine the condition of the part, component, or surface examined, including such conditions as cracks, wear, corrosion, erosion, or physical damage on the surfaces of the part or components.
- (b) Direct VT-1 visual examination may be conducted when access is sufficient to place the eye within 24 in. of the surface to be examined and at an angle not less than 30 deg. to the surface. Mirrors may be used to improve the angle of vision. Lighting, natural or artificial, shall be sufficient to resolve a 1/32 in. black line on an 18% neutral gray card.

- (c) Remote VT-1 visual examination may be substituted for direct examination. Remote examination may use aids, such as telescopes, borescopes, fiber optics, cameras, or other suitable instruments, provided such systems have a resolution capability at least equivalent to that attainable by direct visual examination.

2. Visual Examination VT-2

- (a) The VT-2 visual examination shall be conducted to locate evidence of leakage from pressure retaining components, or abnormal leakage from components with or without leakage collection systems as required during the conduct of system pressure or functional test.
- (b) The VT-2 visual examination shall be conducted in accordance with IWA-5240.

3. Visual Examination VT-3

- (a) The VT-3 visual examination shall be conducted to determine the general mechanical and structural condition of components and their supports, such as the verification of clearances, settings, physical displacements, loose or missing parts, debris, corrosion, wear, erosion, or the loss of integrity at bolted or welded connections.
- (b) The VT-3 examination shall include examinations for conditions that could affect operability or functional adequacy of snubbers, and constant load and spring type supports.
- (c) For component supports and component interiors, the visual examination may be performed remotely with or without optical aids to verify the structural integrity of the component.

4. Replication

Surface replication methods shall be considered acceptable, provided the surface resolution is at least equivalent to that obtainable by direct visual observation.

B. Surface Examination:

A surface examination indicates the presence of surface discontinuities. It may be conducted by either a Magnetic Particle (MT) or a Liquid Penetrant (PT) method. Any linear indication that exceeds the allowable linear surface flaw standards shall be recorded.

1. Magnetic Particle Examination

Magnetic particle examination shall be conducted in accordance with Article 7 of ASME Section V.

2. Liquid Penetrant Examination

Liquid penetrant examination shall be conducted in accordance with Article 6 of ASME Section V.

C. 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. Two such volumetric techniques are Radiographic (RT) and Ultrasonic Examinations (UT).

1. Radiographic Examination

Radiographic examination shall be conducted in accordance with Article 2 of ASME Section V.

2. Ultrasonic Examination

Ultrasonic examination shall be conducted in accordance with Appendix I of ASME Section XI. Appendix VIII of 1995 Edition with 1996 Addenda requires performance demonstration for ultrasonic examination procedures, equipment, and personnel used to detect and size flaws. The details are discussed in Section 1.8.

The detailed procedure, equipment, and examination personnel (Level II or III) used in examination of austenitic stainless steel component welds and austenitic stainless steel component welds with overlays, where applicable, are those qualified by a formal program in accordance with the Non-Destructive Examination (NDE) Coordination Plan agreed upon by NRC, Electric Power Research Institute (EPRI), and BWR Owners Group for IGSCC research, as implemented at the EPRI NDE Center in Charlotte, North Carolina. It should be noted that none of the welds at Clinton Power Station (CPS) are currently overlaid. Performance of ultrasonic examination on austenitic stainless steel component welds in accordance with Appendix VIII (Section XI)/PDI Program satisfies the above mentioned requirements.

On austenitic stainless steel component welds with Corrosion Resistant Cladding (CRC) and Reactor Pressure Vessel (RPV) nozzle assemblies with Inconel 182 buttering, the above mentioned personnel and equipment will demonstrate the capabilities to detect IGSCC on these welds utilizing modified versions of the above mentioned procedures.

Level I examiners who may become qualified by demonstrating field performance capability will not be utilized for examination or evaluation on piping susceptible to IGSCC.

D. Alternative Examinations:

Alternative examination methods, a combination of methods, or newly developed techniques may be substituted for the methods specified in ASME Section XI, provided the Inspector is satisfied that the results are demonstrated to be equivalent or superior to those of the specified method.

E. Qualifications of Nondestructive Examination Personnel:

Personnel performing nondestructive examinations (NDE) shall be qualified and certified using a written practice prepared in accordance with ASNT SNT-TC-1A 1984, Standard for Qualification and certification of Nondestructive Testing Personnel, and the additional requirements of ASME Section XI.

1. NDE Methods Listed in SNT-TC-1A:

- (a) Qualifications shall be based on the methods, techniques, procedures, and equipment used for the NDE required by ASME Section XI.
- (b) Training, qualification, and certification of ultrasonic examination personnel shall also comply with the requirements specified in Appendix VII and VIII.

2. NDE Methods Not Listed in SNT-TC-1A:

Personnel performing visual examinations or using other NDE methods not addressed in SNT-TC-1A shall be qualified and certified to comparable levels of qualification as defined in SNT-TC-1A and IP's written practice.

### 1.5 Application of Code Cases

ASME Section XI Code Cases to be utilized for inservice inspection shall be as approved by the NRC in the Regulatory Guide 1.147 (Rev. 12) or by other written approval.

The following Code Cases are utilized in preparation of second 10-Year inservice inspection plan and schedules.

- 1. Case N-416-1, "Alternative Pressure Test Requirement for Welded Repairs or Installation of Replacement Items by Welding, Class 1, 2, and 3".

2. Case N-491, "Alternative Rules for Examination of Class 1, 2, 3 and MC Component Supports of Light Water Cooled Power Plants".
3. Case N-460, "Alternative Examination Coverage for Class 1 and Class 2 Welds".
4. Case N-498-1, "Alternative Rules for 10-Year Hydrostatic Pressure Testing for Class 1, 2, and 3 Systems".
5. Case N-524, "Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping".

#### 1.6 Reference Documents and Control of Plan Revisions

This plan was prepared utilizing CPS Piping Line Lists (See Table III). Also, included in this plan are those vendor supplied piping that are identified on CPS P&ID drawings. One (1) inch or less nominal pipe size Class 1 components and four (4) inches or less nominal pipe size Class 2 and 3 components, except as required by an augmented examination, have not been included in Table II, since these piping lines are exempted by the Code.

Revisions to this plan will be controlled by IP. Changes to the plant components which could affect this plan are reviewed by personnel to ensure that changes are identified and the Plan remains current.

#### 1.7 Repair/Replacement

Repairs and replacements shall be performed in accordance with the CPS ISI Program Manual and the Code requirements.

#### 1.8 Appendix VIII, Performance Demonstration for Ultrasonic Examination Systems

The Code of Federal Regulations Title 10 Part 50 Subpart 55a (10CFR50.55a), as amended by the Federal Register Notice dated September 22, 1999, requires implementation of Appendix VIII, 'Performance Demonstration for Ultrasonic Examination Systems'. The effective ASME Section XI Code is 1995 Edition with the 1996 Addenda with modification as identified in 10CFR50.55a(b)(xiv), (xv), and (xvi).

The 10CFR50.55a(g)(6)(ii)(C) requires accelerated implementation of Appendix VIII and its supplements according to the following schedule:

- Supplement 1, Evaluating Electronic Characteristics of Ultrasonic System - May 22, 2000
- Supplement 2, Qualification Requirements for Wrought Austenitic Piping Welds - May 22, 2000
- Supplement 3, Qualification Requirements for Ferritic Piping Welds - May 22, 2000
- Supplement 8, Qualification Requirements for Bolts and Studs - May 22, 2000

Supplement 4, Qualification Requirements for the Clad/Base Metal Interface of Reactor Vessel - November 22, 2000

Supplement 6, Qualification Requirements for Reactor Vessel Welds Other Than Clad/Base Metal Interface - November 22, 2000

Supplement 11, Qualification Requirements for Full Structural Overlaid Wrought Austenitic Piping Welds - November 22, 2001

Supplement 5, Qualification Requirements for Nozzle Inside Radius Section - November 22, 2002

Supplement 7, Qualification Requirements for Nozzle-Vessel Weld - November 22, 2002

Supplement 10, Qualification Requirements for Dissimilar Metal Piping Welds - November 22, 2002

Supplement 12, Requirements for Coordinated Implementation of Selected Aspects of Supplements 2, 3, 10, and 11 - November 22, 2002

Supplement 13, Requirements for Coordinated Implementation of Selected Aspects of Supplements 4, 5, 6, and 7 - November 22, 2002

CPS does not have in-house capabilities to perform ultrasonic examinations. CPS intends to utilize NDE contractors to perform ultrasonic examinations. However, CPS still has the responsibility to ensure that Appendix VIII requirements are properly implemented.

Performance Demonstration Initiatives (PDI) is an organization comprised of all US nuclear utilities that was formed to provide an efficient implementation of Appendix VIII performance demonstration requirements. The Electric Power Research Institute (EPRI) NDE Center was selected as the administrator of this program. The PDI program is administered according to the "PDI Program Description". It is CPS' understanding that "PDI Program Description" meets the Appendix VIII requirements with the following exceptions:

#### Reactor Pressure Vessel Length Sizing Tolerance

The 1995 Edition with 1996 Addenda Appendix VIII, Supplement 4, Paragraph 3.2(b), requires that the length sizing by ultrasonic examination shall be true length  $-1/4$  inch  $+ 1.0$  inch. The PDI Program has used the length sizing by ultrasonic examination as 0.75 inch Root Mean Square Error (RSME) to qualify examiners. Relief Request Number 4202 has been submitted to the NRC to request use of 0.75 inch RSME.

#### Single Side Access

The new rules, 10CFR50.55a(b)(2)(xv)(A), 10CFR50.55a(b)(2)(xv)(G), and 10CFR50.55a(b)(2)(xvi) define new requirements for coverage and qualification demonstration. These effects Reactor Vessel Welds, Carbon Steel Piping Welds, and Stainless Steel Piping Welds Examinations.

Reactor vessel welds - new rules require that examinations performed from one side of a ferritic vessel weld must be conducted with equipment, procedures, and personnel that have demonstrated proficiency with single side examinations. At present the PDI Program does not meet the new requirements. CPS plans to perform the scheduled RPV head welds during RF-7 from both sides of the welds. Therefore, no relief is needed for RF-7.

Ferritic Piping Welds - 10CFR50.55a(b)(2)(xvi)(B) requires that examinations performed from one side of a ferritic pipe weld be conducted with equipment, procedures, and personnel that have demonstrated proficiency with single side examinations. The PDI Program has appropriate specimen and offers this qualification. Therefore, no relief is needed.

Austenitic Stainless Steel Piping Welds - 10CFR50.55a(b)(2)(xvi)(B) requires that examinations performed from one side of an austenitic stainless steel pipe weld must be conducted with equipment, procedures, and personnel that have demonstrated proficiency with single side examinations. At present the PDI Program does not meet the new requirements. CPS has submitted Relief Request Number 4203 to the NRC to address this issue.

#### Referenced Section XI Code Edition and Addenda

As discussed above, implementation of Appendix VIII, "Performance Demonstration For Ultrasonic Examination Systems" is required. The effective ASME Section XI Code is 1995 Edition with 1996 Addenda. It is not clear if all related requirements in the 1995 Edition with 1996 Addenda are required to be met.

The 1995 Edition with 1996 Addenda of ASME Section XI, would identify qualification of UT personnel to CP-189, 1991 Edition and Appendix VII of the 1995 Edition with 1996 Addenda of Section XI. CPS has committed to 1989 Edition of Section XI for the second ten-year interval, which requires qualification of UT personnel to ASNT-TC-1A and Appendix VII of the 1989 Edition of Section XI. To implement Appendix VIII, CPS would have to require UT personnel to be qualified in accordance with CP-189 and Appendix VII of the 1995 Edition with 1996 Addenda of Section XI. However, that may be a hardship on CPS vendors. Therefore, CPS has submitted Relief Request Number 4204 to the NRC to meet ASNT-TC-1A and Appendix VII of the 1989 Edition of Section XI requirements instead of CP-189 and Appendix VII of the 1995 Edition with 1996 Addenda of Section XI requirements.

#### Examination of Piping Welds With Corrosion Resistant Cladding (CRC)

CRC is austenitic steel weld material added to the inside and outside surfaces in the area of the heat affected zone. This was done to SS piping to mitigate Intergranular Stress Corrosion Cracking (IGSCC). ASME Section XI, Appendix VIII Supplement 2 does not specifically address examination of SS piping containing CRC. PDI is presently working on developing a program to address CRC welds. Relief Request Number 4205 has been submitted to the NRC to ensure compliance.

## Other Regulatory Issues and Considerations

### Regulatory Guide 1.150

For reactor vessel welds (Supplements 4 and 6) (except RPV shell to flange weld and RPV head to flange weld) CPS is implementing Appendix VIII instead of Regulatory Guide 1.150. This regulatory guide is applicable to RPV shell to head weld and RPV head to flange weld.

### NRC Generic Letter 88-01

The PDI program addresses qualification of examiners for Intergranular Stress Corrosion Cracking (IGSCC) susceptible piping welds according to the requirements of NRC Generic Letter 88-01. The stainless steel piping welds which contain CRC are addressed above and in Relief Request Number 4205.

### Annual Training

10 CFR 50.55a(b)(2)(xiv) requires all personnel qualified for performing ultrasonic examinations in accordance with Appendix VIII shall receive 8 hours of annual hands on training on specimens that contain cracks. This training must be completed no earlier than 6 months prior to performing examinations.

ASME Section XI, Appendix VII, Subarticle VII-4240 requires a supplemental training on an annual basis to cover new developments, material failure modes, and any pertinent technical topics. The extent of this training shall be a minimum of 10 hours per year. A Relief Request 4206 has been submitted to request relief from this 10 hours annual training and commit to an alternative hands on training.

TABLE 1

CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN REQUIREMENTS

(Revision 6)

CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN - TABLE 1 KEY

CODE CLASS

Item Number	Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
The ASME Section XI Item Number and Category of examination are listed in these columns.		Each type of examination area is listed in this column.	NDE method required to satisfy ASME Code requirements is listed in this column.	This column provides information regarding the number and/or percent of examinations required to be performed for the 10 - year interval.	This column provides information specific to examination techniques and examination areas.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B1.11 and B1.12	B-A	Circumferential and Longitudinal Shell Welds.	Volumetric	100% of all circumferential and longitudinal welds to be examined. Examinations may be performed at or near the end of the inspection interval.	Examination of longitudinal and circumferential shell welds will be performed utilizing mechanized UT techniques. Where mechanized techniques do not provide complete coverage, manual techniques will be utilized to the extent possible to obtain the coverage.
B1.21 and B1.22	B-A	Circumferential and Meridional Head Welds.	Volumetric	Accessible length of all meridional and circumferential welds of the closure head and lower head to be examined. Examinations may be performed at or near the end of each inspection interval for the lower head.	Head welds will be examined by manual UT method.
B1.30	B-A	Shell-to-Flange Weld	Volumetric	100% of the circumferential weld to be examined. At least 50% of the weld shall be examined by the end of the first inspection period, and the remainder by the end of the third inspection period.	The shell-to-flange weld will be examined from the vessel outside surface with manual UT.
B1.40	B-A	Head-to-Flange Weld	Volumetric and Surface	100% of circumferential weld to be examined.	The head-to-flange weld will be examined with manual UT and surface examination techniques when the head is removed.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B1.50	B-A	Repair Area in Beltline Regions	Volumetric	Clinton Power Station has no beltline region repair welds.	N/A
B2.10 thru B2.80	B-B	Pressure-Retaining Welds in Vessels Other Than Reactor Vessels	Volumetric	Items B2.10 through B2.80 not applicable to Clinton Power Station.	N/A
B3.10 thru B3.80	B-D	Full Penetration Welds of Nozzles in Vessels-Inspection Program A	Volumetric	Clinton Power Station to use Inspection Program B.	N/A
B3.90,B3.100	B-D	Full penetration Nozzle-to-Vessel Welds and Nozzle Inside Radius Section	Volumetric	All full penetration welds of nozzles in Inspection Program B.	The nozzle-to-vessel welds and nozzle inside radius will be examined with manual and mechanized UT.
B3.110 thru B3.160	B-D	Full Penetration Welds of Nozzles in Vessels.	Volumetric	Items B3.110 through B3.160 are not applicable to Clinton Power Station.	N/A
B4.10	B-E	Partial Penetrations	Visual (VT-2)	25% of each group of comparable size and function to be examined. The examinations to be performed when the RPV is pressurized prior to operation.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B4.11	B-E	Vessel Nozzle Welds	Visual (VT-2)	25% of each group of comparable size and function to be examined. The examinations to be performed during conduct of the system leakage test (IWB-5221). CPS has adopted Code Case 498.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B4.12	B-E	Control Rod Drive Nozzle Welds	Visual (VT-2)	25% of each group of comparable size and function to be examined. The examinations to be performed during conduct of the system leakage test (IWB-5221). CPS has adopted Code Case 498.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B4.13	B-E	Instrumentation Nozzle Welds	Visual (VT-2)	25% of each group of comparable size and function to be examined. The examinations to be performed during conduct of the system leakage test (IWB-5221). CPS has adopted Code Case 498.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B4.20	B-E	Heater Penetrations	Visual (VT-2)	Item B4.20 not applicable to Clinton Power Station.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B5.10	B-F	Reactor Vessel Nozzle-to-Safe End Welds greater than or equal to 4 Inches Nominal Pipe Diameter	Volumetric and Surface	All dissimilar metal welds of nozzle-to-safe end butt welds.	UT examination to be performed manually or mechanized method.
B5.20	B-F	Reactor Vessel Nozzle-to-Safe End Welds less than 4 Inches Nominal Pipe Diameter	Surface	All dissimilar metal weld of nozzle-to-safe end butt welds.	N/A
B5.30 thru B5.120	B-F	Reactor Vessel Nozzle-to-Safe End Welds	Volumetric and Surface	Items B5.30 through B5.120 not applicable to Clinton Power Station.	N/A
B6.10	B-G-1	Closure Head Nuts	Surface	100% of nuts to be examined.	Nuts will be examined with MT when removed for refueling.
B6.20	B-G-1	Closure Studs, In Place	Volumetric	100% of studs to be examined.	Closure stud examinations may be performed when "in place." Examinations should be scheduled when studs are removed to reduce radiation exposure and allow the most thorough examination.
B6.30	B-G-1	Closure Studs, When Removed	Volumetric and Surface	100% of studs to be examined. Examination may be performed at or near the end of the inspection interval.	The studs will be examined with UT and MT.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B6.40	B-G-1	Threads in Flange	Volumetric	100% of threaded holes to be examined. 1-inch annular area around threaded hole to be examined.	The threads in flange will be examined from the flange seal surface with UT.
B6.50	B-G-1	Closure Washers.	Visual (VT-1)	100% washers to be examined. CPS has no bushings.	Visual (VT-1) of closure washers will be performed by direct VT techniques.
B6.60 thru B6.140	B-G-1	Pressure-Retaining Bolting greater than 2 Inches in Diameter	Volumetric, Visual (VT-1)	Items B6.60 through B6.140 not applicable to Clinton Power Station.	N/A
B7.10 thru B7.40	B-G-2	Pressure-Retaining Bolting less than or equal to 2 Inches In Diameter.	Visual (VT-1)	Items B7.10 through B7.40 not applicable to Clinton Power Station.	N/A
B7.80	B-G-2	CRD Housings Pressure-Retaining Bolting less than or equal to 2 Inches in Diameter.	Visual (VT-1)	Bolts, studs, and nuts in CRD housing to be examined when disassembled.	Bolting will be examined with direct VT when disassembled.
B8.10	B-H	Integrally Welded attachments to Reactor Vessel.	Volumetric or Surface	100% weld to be examined.	The RPV integrally welded support skirt will be examined with UT or MT.
B8.20 thru B8.40	B-H	Integrally Welded attachment.	Volumetric or Surface	Items B8.20 through B8.40 not applicable to Clinton Power Station.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B13.10	B-N-1	Vessel Interior	Visual (VT-3)	Accessible areas above and below reactor core that are made accessible during normal refueling outages, to be examined each inspection period.	Visual examinations will be performed with remote VT.
B13.20	B-N-2	Interior Attachments Within Beltline Region	Visual (VT-1)	Accessible attachment welds to be examined at or near the end of the inspection interval.	Visual examinations will be performed with remote VT.
B13.30	B-N-2	Interior Attachments Beyond Beltline Region	Visual (VT-3)	Accessible attachment welds to be examined at or near the end of the inspection interval.	Visual examinations will be performed with remote VT.
B13.40	B-N-2	Core-Support Structures	Visual (VT-3)	Accessible surfaces to be examined at or near the end of the inspection interval.	Visual examinations will be performed with remote VT.
B13.50 thru B13.70	B-N-2&B-N-3	PWR: Reactor Vessel Interior Attachments and Core Support Structure.	Visual (VT-1/VT-3)	Items B13.50 through B13.70 not applicable to Clinton Power Station.	N/A
B14.10	B-0	Control Rod Drive Housing Welds	Volumetric or Surface	Welds in 10% of the peripheral CRD housings to be examined. Examination may be performed at or near the end of the inspection interval.	The CRD housing welds will be examined with PT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> REACTOR PRESSURE VESSEL <					
B15.10	B-P	All Pressure-Retaining Boundaries for Vessel Components	Visual (VT-2)	All components to be examined during system leakage test. Examinations to be performed in accordance with IWB-5221 for each refueling outage.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B15.11	B-P	All Pressure-Retaining Boundaries for Vessel Components	Visual (VT-2)	CPS has adopted Code Case N-498-1.	N/A
B15.20 thru B15.41	B-P	Pressure-Retaining Components	Visual (VT-2)	Items B15.20 through B15.41 not applicable to Clinton Power Station.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
B5.130	B-F	Dissimilar Metal Welds greater than or equal to 4 Inches.	Volumetric and Surface	100% of the welds to be examined.	The welds will be examined with manual UT and PT.
B5.140	B-F	Dissimilar Metal Welds less than 4 Inches.	Surface	100% of the welds to be examined.	The welds will be examined with PT.
B5.150	B-F	Dissimilar Metal Socket Welds.	Surface	Clinton Power Station has no dissimilar metal socket welds.	N/A
B6.150	B-G-1	Bolts and Studs greater than 2 Inches in Diameter, in Place.	Volumetric	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with the Class 1 piping systems.	N/A
B6.160	B-G-1	Flange Surface, When Connection Disassembled.	Visual (VT-1)	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with the Class 1 piping systems.	N/A
B6.170	B-G-1	Nuts, Bushings, and Washers.	Visual (VT-1)	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with the Class 1 piping systems.	N/A
B7.50	B-G-2	Bolting less than or equal to 2 Inches in Diameter.	Visual (VT-1)	All bolts, studs, and nuts to be examined. The bolting may be examined in place under tension	The bolting will be examined with direct VT.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
(Continued)				or when removed.	
B9.11	B-J	Circumferential Pipe Welds greater than or equal to 4 Inches in Diameter.	Volumetric and Surface	25% of the circumferential butt welds, selected per Note (1), Table IWB-2500-1, Category B-J, to be examined.	The piping welds will be examined with manual UT and PT or MT as applicable.
B9.12	B-J	Longitudinal Pipe Welds greater than or equal to 4 Inches in Diameter.	Volumetric and Surface	CPS has adopted Code Case N-524.	N/A
B9.21	B-J	Circumferential Welds less than 4 Inches in Diameter.	Surface	25% of the circumferential butt welds, selected per Note (1), Table IWB-2500-1, Category B-J, to be examined.	The piping welds will be examined with PT or MT as applicable.
B9.22	B-J	Longitudinal Pipe Welds less than 4 Inches in Diameter.	Surface	Clinton Power Station has no longitudinal pipe welds associated with Class 1 piping systems less than 4 inches in diameter.	N/A
B9.31	B-J	Branch Pipe Connection Welds greater than or equal to 4 Inches in Diameter.	Volumetric and Surface	25% of the branch connection joints, selected per Note (1), Table IWB-2500-1, Category B-J, to be examined.	The branch connection welds will be examined with manual UT and PT or MT as applicable.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
B9.32	B-J	Branch Pipe Connection Welds < 4 Inches in Diameter	Surface	25% of the branch connection joints, selected per Note (1), Table IWB-2500-1, Category B-J, to be examined.	The branch connection welds will be examined with PT or MT as applicable.
B9.40	B-J	Socket Welds	Surface	Item B9.40 is not applicable to Clinton Power Station.	N/A
B10.10	B-K-1	Integrally Welded Attachments	Volumetric or Surface	Welded attachment whose base material is 5/8 inch and greater to be examined.	The integrally welded attachments will be examined with PT or MT as applicable.
B15.50	B-P	All Pressure-Retaining Boundaries for Piping Components	Visual (VT-2)	All components to be examined during system leakage test. Examination to be performed in accordance with IWB-5221 during each refueling outage.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B15.51	B-P	All Pressure-Retaining Boundaries for Piping Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
B6.180	B-G-1	Bolts and Studs greater than 2 Inches in Diameter.	Volumetric	All bolts and studs to be examined. The bolting may be examined in place under tension, when connection is disassembled, or when the bolting is removed.	The bolting will be examined with manual UT.
B6.190	B-G-1	Flange Surface for Bolting greater than 2 Inches in Diameter when Connection is Disassembled.	Visual (VT-1)	All surfaces and 1 inch annular area around each stud hole to be examined when disassembled.	The flange surfaces will be examined with direct VT.
B6.200	B-G-1	Nuts greater than 2 Inches in Diameter.	Visual (VT-1)	100% nuts to be examined. CPS has no bushings or washers.	The nuts will be examined with direct VT.
B7.60	B-G-2	Bolts, Studs and Nuts less than or equal to 2 Inches in Diameter	Visual (VT-1)	Clinton Power Station has no pressure-retaining bolting 2 inches in diameter or less associated with the Class 1 pumps.	N/A
B10.20	B-K-1	Integrally Welded Attachments	Volumetric or Surface	Attachments to pumps associated with piping selected under Category B-J to be examined. Attachments whose base material thickness is 5/8	Welded attachments will be examined with manual UT or surface examination techniques as applicable.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
(Continued)				inch and greater to be examined.	
B12.10	B-L-1	Pump Casing Welds	Volumetric	Reactor recirculation pump casing closure welds are exempt from examination per IWA-2500. Clinton Power Station has no other Class 1 pump casing welds.	N/A
B12.20	B-L-2	Internal Surfaces of Pump Casings	Visual (VT-3)	One reactor recirculation pump to be examined when disassembled.	Pump casing internal surface will be examined with remote or direct visual techniques as applicable.
B15.60	B-P	Pressure-Retaining Boundaries for Pump Components	Visual (VT-2)	All components to be examined during system leakage test. Examination to be performed in accordance with IWB-5221 during each refueling outage.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B15.61	B-P	Pressure-Retaining Boundaries for Pump Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
B6.210	B-G-1	Bolts and Studs greater than 2 Inches in Diameter.	Volumetric	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 1 valves.	N/A
B6.220	B-G-1	Flange Surface for Bolting greater than 2 Inches in Diameter when Connection is Disassembled.	Visual (VT-1)	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 1 valves.	N/A
B6.230	B-G-1	Nuts, Bushings, and Washers greater than 2 Inches in Diameter.	Visual (VT-1)	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 1 valves.	N/A
B7.70	B-G-2	Bolting less than or equal to 2 Inches in Diameter.	Visual (VT-1)	All bolts, studs, and nuts to be examined. The bolting may be examined in place under tension, when the connection is disassembled, or when the bolting is removed.	Bolting will be examined with direct VT.
B10.30	B-K-1	Integrally Welded Attachments.	Volumetric or Surface	Attachments to valves associated with piping selected under Category B-J to be examined. Attachments whose base	Welded attachments will be examined with manual UT or surface examination techniques as applicable.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
(Continued)				material thickness is 5/8 inch and greater to be examined.	
B12.30	B-M-1	Valve Body Welds less than 4 Inches Nominal Pipe Size.	Surface	Clinton Power Station has no Class 1 valve body welds.	N/A
B12.40	B-M-1	Valve Body Welds greater than or equal to 4 Inches Nominal Pipe Size.	Volumetric	Clinton Power Station has no Class 1 valve body welds.	N/A
B12.50	B-M-2	Internal Surfaces of Valve Bodies on Valves greater than 4 Inches Nominal Pipe Size.	Visual (VT-3)	One valve in each group of valves that is of the same construction and similar function to be examined.	Internal surfaces will be examined with remote or direct visual techniques as applicable.
B15.70	B-P	All Pressure-Retaining Boundaries for Valve Components.	Visual (VT-2)	All components to be examined during system leakage test. Examination to be performed in accordance with IWB-5221 during each refueling outage.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
B15.71	B-P	All Pressure-Retaining Boundaries for Valve Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> NOTE <					
B16.10 thru B16.20	B-Q	Steam Generator Tubing	Volumetric	Items B16.10 through B16.20 not applicable to Clinton Power Station.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
C1.10	C-A	Shell Circumferential Welds	Volumetric	100% of each weld to be examined (applies to welds at gross structural discontinuities). For multiple vessels of similar design size and service, examinations may be limited to one vessel.	The welds will be examined with manual UT.
C1.20	C-A	Head Circumferential Welds	Volumetric	100% of each weld to be examined. For multiple vessels of similar design size and service, examinations may be limited to one vessel.	The welds will be examined with manual UT.
C1.30	C-A	Tube Sheet-to-Shell Weld	Volumetric	100% of each weld to be examined. For multiple vessels of similar design size and service, examinations may be limited to one vessel.	The welds will be examined with manual UT.
C2.10 and C2.11	C-B	Nozzles in Vessels less than or equal to 1/2 Inch Nominal Thickness, Nozzle-to-Shell (or Head) Weld	Surface	Items C2.10 and C2.11 not applicable to Clinton Power Station.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
C2.20 and C2.21	C-B	Nozzles in Vessels greater than 1/2 Inch Nominal Thickness, Nozzle-to-Shell (or Head) Weld.	Surface and Volumetric	All nozzles to be selected at terminal ends of piping runs selected for examination under Category C-F. 100% of each weld to be examined. Manways and hand holes excluded. For multiple vessels of similar design and service, examination may be limited to one vessel.	The welds may be examined with UT and MT or PT as applicable.
C2.22	C-B	Nozzle Inside Radius Section	Volumetric	100% of each area to be examined. Manways and hand holes are excluded. For multiple vessels of similar design and service, examination may be limited to one vessel.	The nozzle inside radius section will be examined with UT.
C3.10	C-C	Integrally Welded Attachments	Surface	100% of each weld to be examined. For multiple vessels of similar design and service, examination may be limited to one vessel. Attachments whose base material is 3/4 inch or greater to be selected.	The welded attachments will be examined with MT or PT as applicable.
C4.10	C-D	Bolts and Studs	Volumetric	Clinton Power Station has no pressure-retaining bolting greater	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
(Continued)				than the 2-inch diameter associated with Class 2 vessels.	
C2.31, C2.32, and C2.33	C-B	Nozzles in Vessels greater than 1/2 Inch Nominal Thickness, Nozzle to Shell (or Head) Weld.	Surface and Volumetric	Items C2.31, C2.32, and C2.33 are not applicable to Clinton Power Station.	N/A
C7.10	C-H	Pressure-Retaining Components	Visual (VT-2)	All components to be examined during system pressure test. Examinations to be performed in accordance with IWC-5221 for each inspection period.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
C7.20	C-H	Pressure-Retaining Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
C3.20	C-C	Integrally Welded Attachments	Surface	100% of each weld to be examined. Attachments whose base material is 3/4 inch or greater to be selected. Selection limited to those components selected under Examination Category C-F.	The welds will be examined with MT or PT as applicable.
C4.20	C-D	Bolts and Studs	Volumetric	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 2 piping.	N/A
C5.11	C-F-1	Circumferential Piping Welds greater than or equal to 3/8 Inch Nominal Wall Thickness for Piping greater than 4 Inches NPS.	Surface and Volumetric	100% of each weld requiring examination. See Footnotes to Table IWC 2500-1.	The welds will be examined with MT or PT as applicable and UT.
C5.12	C-F-1	Longitudinal Piping Welds greater than or equal to 3/8 Inch Nominal Wall Thickness for Piping greater than 4 Inches NPS.	Surface	CPS has adopted Code Case N-524.	N/A

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
C5.21 and C5.22	C-F-1	Circumferential and Longitudinal Piping Welds greater than 1/5 Inch Nominal Wall Thickness for Piping greater than or equal to NPS 2 and less than or equal to NPS 4.	Surface and Volumetric	Items C5.21 and C5.22 do not apply to Clinton Power Station.	N/A
C5.30	C-F-1	Socket welds.	Surface	Clinton Power Station does not have socket welds in Class 2 Piping in greater than 4 NPS.	N/A
C5.41	C-F-1	Circumferential weld Piping Branch connections of Branch Piping greater than NPS 4.	Surface	100% of each weld requiring examination. See Footnotes to Table IWC 2500-1.	The welds will be examined with MT or PT as applicable.
C5.42	C-F-1	Longitudinal weld Piping Branch connections of Branch Piping greater than NPS 4.	Surface	CPS has adopted Code Case N-524.	N/A
C5.51	C-F-2	Circumferential Piping Welds greater than or equal to 3/8 Inch Nominal Wall Thickness for Piping	Surface and Volumetric	100% of each weld requiring examination. See Footnotes to Table IWC 2500-1.	The welds will be examined with UT and MT or PT as applicable.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
(Continued)		Wall Thickness for Piping greater than 4 Inches NPS.			
C5.52	C-F-2	Longitudinal Piping Welds greater than or equal to 3/8 Inch Nominal Wall Thickness for Piping greater than 4 Inches NPS.	Surface and Volumetric	CPS has adopted Code Case N-524.	N/A
C5.61 and C5.62	C-F-2	Circumferential and Longitudinal Piping Welds greater than 1/5 Inch Nominal Wall Thickness for Piping greater than or equal to NPS 2 and less than or equal to NPS 4.	Surface and Volumetric	Items C5.61 and C5.62 do not apply to Clinton Power Station.	N/A
C5.70	C-F-2	Socket Weld.	Surface	Clinton Power Station does not have socket welds in Class 2 Piping in greater than 4 NPS.	N/A
C5.81	C-F-2	Circumferential Weld Pipe Branch Connections of Branch Piping greater	Surface	100% of each weld requiring examination. See Footnotes to Table IWC 2500-1.	The welds will be examined with MT or PT as applicable.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
(Continued)		than NPS 4.			
C5.82	C-F-2	Longitudinal Welds at Circumferential Branch Connection Welds	Surface	Clinton Power Station has no intersecting longitudinal seam welds at branch connections.	N/A
C7.30	C-H	Pressure-Retaining Components	Visual (VT-2)	All components to be examined during system pressure test. Examination to be performed in accordance with IWC-5221 for each inspection period.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
C7.40	C-H	Pressure-Retaining Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
C3.30	C-C	Integrally Welded Attachments	Surface	100% of each weld to be examined. Attachments whose base material is 3/4 inch or greater to be selected. Selection limited to those components selected under Examination Category C-G.	The welds will be examined with MT or PT as applicable.
C4.30	C-D	Bolts and Studs, Bolting > 2 Inches in Diameter	Volumetric	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 2 pumps.	N/A
C6.10	C-G	Pump Casing Welds	Surface	100% of each pump casing welds. Selection limited to those components selected under Examination Category C-F. For multiple pumps of similar design, size, function, and service, examination may be limited to one pump.	The welds will be examined with MT or PT as applicable.
C7.50	C-H	Pressure-Retaining Components	Visual (VT-2)	All components to be examined during system pressure test. Examination to be performed in accordance with IWC-5221 for each inspection period.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
C7.60	C-H	Pressure-Retaining Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 2 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
C3.40	C-C	Integrally Welded Attachments	Surface	100% of each weld to be examined. Attachments whose base material is 3/4 inch or greater to be selected. Selection limited to those components selected under Examination Category C-G.	The welds will be examined with MT or PT as applicable.
C4.40	C-D	Bolts and Studs, Bolting greater than 2 Inches in Diameter.	Volumetric	Clinton Power Station has no pressure-retaining bolting greater than 2-inch diameter associated with Class 2 valves.	N/A
C6.20	C-G	Valve Body Welds	Surface	Clinton Power Station has no valve body welds associated with Class 2 valves.	N/A
C7.70	C-H	Pressure-Retaining Components	Visual (VT-2)	All components to be examined during system pressure test. Examination to be performed in accordance with IWC-5221 for each inspection period.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.
C7.80	C-H	Pressure-Retaining Components	Visual (VT-2)	Clinton Power Station has adopted Code Case N-498-1.	N/A

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
D1.10	D-A	Pressure Retaining Components in Support of Reactor Shutdown Function.	Visual ( VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D2.10	D-B	Pressure Retaining Components in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D3.10	D-C	Pressure Retaining Components in Support	Visual (VT-2)	System Inservice Test/System Functional Test - All components	Locate evidence of leakage from pressure retaining components in accordance with

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
(Continued)		of Residual Heat Removal from Spent Fuel Storage Pool.		to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	IWA-5240.  N/A
D1.20 thru D1.60	D-A	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.
D2.20 thru D2.60	D-B	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PRESSURE VESSELS <					
(Continued)		Supports, and Shock Absorbers.		multiple components may be examined.	
D3.20 thru D3.60	D-C	Integral Attachments of Component Supports, and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
D1.10	D-A	Pressure Retaining Components in Support of Reactor Shutdown Function.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D2.10	D-B	Pressure Retaining Components in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D3.10	D-C	Pressure Retaining Components in Support	Visual (VT-2)	System Inservice Test/System Functional Test - All components	Locate evidence of leakage from pressure retaining components in accordance with

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
(Continued)		of Residual Heat Removal from Spent Fuel Storage Pool.		to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	IWA-5240.  N/A
D1.20 thru D1.60	D-A	Integral Attachments of Component Supports, and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval.	The integral attachments may be examined with direct or remote VT.
D2.20 thru D2.60	D-B	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type	Visual (VT-3)	Integral attachments to be examined during each inspection interval.	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PIPING <					
(Continued)		Supports, and Shock Absorbers.			
D3.20 thru D3.60	D-C	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval.	The integral attachments may be examined with direct or remote VT.

TABLE 1  
CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
D1.10	D-A	Pressure Retaining Components in Support of Reactor Shutdown Function.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D2.10	D-B	Pressure Retaining Components in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D3.10	D-C	Pressure Retaining Components in Support	Visual (VT-2)	System Inservice Test/System Functional Test - All components	Locate evidence of leakage from pressure retaining components in accordance with

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
(Continued)		of Residual Heat Removal from Spent Fuel Storage Pool.		to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	IWA-5240.  N/A
D1.20 thru D1.60	D-A	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.
D2.20 thru D2.60	D-B	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> PUMPS <					
(Continued)		Supports, and Shock Absorbers.		multiple components may be examined.	
D3.20 thru D3.60	D-C	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
D1.10	D-A	Pressure Retaining Components in Support of Reactor Shutdown Function.	Visual (VT-2)	System Inspection Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D2.10	D-B	Pressure Retaining Components in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal.	Visual (VT-2)	System Inservice Test/System Functional Test - All components to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period.  System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	Locate evidence of leakage from pressure retaining components in accordance with IWA-5240.  N/A
D3.10	D-C	Pressure Retaining Components in Support	Visual (VT-2)	System Inservice Test/System Functional Test - All components	Locate evidence of leakage from pressure retaining components in accordance with

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
(Continued)		of Residual Heat Removal from Spent Fuel Storage Pool.		to be examined during System Pressure Test. Examination to be performed in accordance with IWD-5221 or IWD-5222, as applicable, during each inspection period. System Hydrostatic Test - Clinton Power Station has adopted Code Case N-498-1.	IWA-5240.  N/A
D1.20 thru D1.60	D-A	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.
D2.20 thru D2.60	D-B	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 3 COMPONENTS

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> VALVES <					
(Continued)		Supports, and Shock Absorbers.		multiple components may be examined.	
D3.20 thru D3.60	D-C	Integral Attachments of Component Supports and Restraints, Mechanical and Hydraulic Snubbers, Spring Type Supports, Constant Load Type Supports, and Shock Absorbers.	Visual (VT-3)	Integral attachments to be examined during each inspection interval. For multiple components of similar design, function, and service, the integral attachment of only one of the multiple components may be examined.	The integral attachments may be examined with direct or remote VT.

TABLE 1  
 CLINTON POWER STATION (CPS) UNIT 1  
 SECOND TEN YEAR INTERVAL  
 INSERVICE EXAMINATION PLAN (REVISION 6)

CLASS 1,2,3

ASME Section XI Item Number	ASME Section XI Examination Category	Components & Parts To Be Examined	Examination Method	Examination Requirements For 10 - Year Interval	Examination Technique/ Examination Area Comments
> COMPONENT SUPPORTS <					
F1.10	F-A	Class 1 Piping Component Supports.	Visual (VT-3)	25% of Class 1 component supports in each inspection interval. Clinton Power Station has adopted Code Case N-491.	Component supports may be examined by direct or remote VT.
F1.20	F-A	Class 2 Piping Component Supports.	Visual (VT-3)	15% of Class 2 component supports in each inspection interval. Clinton Power Station has adopted Code Case N-491.	Component supports may be examined by direct or remote VT.
F1.30	F-A	Class 3 Piping Component Supports.	Visual (VT-3)	10% of Class 3 component supports in each inspection interval. Clinton Power Station has adopted Code Case N-491.	Component supports may be examined by direct or remote VT.
F1.40	F-A	Class 1, 2, and 3 Component Supports Other Than Piping Supports.	Visual (VT-3)	For multiple components within a system of similar design, functions, and service, the supports of only one of the multiple components may be examined. Clinton Power Station has adopted Code Case N-491.	Component Supports may be examined by direct or remote VT.
IWF-5000	IWF-5000	Class 1, 2, and 3 Snubbers.	Visual & Functional Test	Visual inspection and functional testing of snubbers will be performed per CPS Operational Requirements Manual (ORM).	Snubbers may be examined by direct or remote visual method.

TABLE II

CLINTON POWER STATION (CPS) UNIT 1  
SECOND TEN YEAR INTERVAL  
INSERVICE EXAMINATION PLAN  
COMPONENT AND PIPING EXAMINATION BOUNDARY  
(Revision 6)

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 REACTOR PRESSURE VESSEL (RPV)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1B13D003	--			--	NO	N/A	B1.10 B1.20 B1.30 B1.40 B3.90 B3.100 B4.10 B4.11 B4.12 B4.13 B5.10 B5.20 B6.10 B6.20 B6.30 B6.40 B6.50 B7.80 B8.10 B13.10 B13.20 B13.30 B13.40 B14.10 B15.10	VO/SU/VT	AUGMENTED INSPECTION PERFORMED PER 1.2(H), (I), (J), (K), (L), (N), (P), (Q), (R), AND (U) OF INSERVICE EXAMINATION PLAN.

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
FEEDWATER (FW)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FW02GA	18.00	1150	0425	CS/1.156	NO	N/A	B9.11	VO/SU	
1FW02GB	18.00	1150	0425	CS/1.156	NO	N/A	B9.11	VO/SU	
1FW02HA	12.00	1150	0425	CS/0.844	NO	N/A	B9.11	VO/SU	
1FW02HB	12.00	1150	0425	CS/0.844	NO	N/A	B9.11	VO/SU	
1FW02HC	12.00	1150	0425	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	
1FW02HD	12.00	1150	0425	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	
1FW02JA	18.00	1150	0425	CS/1.781	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1FW02JB	18.00	1150	0425	CS/1.781	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1FW02KA	20.00	1150	0425	CS/1.969	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1FW02KB	20.00	1150	0425	CS/1.969	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.

TABLE 11  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 HIGH PRESSURE CORE SPRAY (HP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1HPO2C	10.00	1170	0550	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1HPO2D	10.00	1170	0550	CS/0.719	NO	N/A	B9.11 B10.10	VO/SU	
1HPO2E	12.00	1170	0550	CS/0.844	NO	N/A	B9.11 B5.130	VO/SU	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER PLANT UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 MSIV LEAKAGE CONTROL (IS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1IS01AA	1.50	1035	0550	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1IS01AB	1.50	1035	0550	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1IS01AC	1.50	1035	0550	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1IS01AD	1.50	1035	0550	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 LOW PRESSURE CORE SPRAY (LP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1LP02B	10.00	1025	0550	CS/0.719	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1LP02C	12.00	1025	0550	CS/0.844	NO	N/A	B9.11 B5.130	VO/SU	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
MAIN STEAM (MS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1MS103AA	1.50	0992	0546	SS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1MS103AB	1.50	0992	0546	SS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS103AC	1.50	0992	0546	SS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS103AD	1.50	0992	0546	SS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS28A	2.00	1025	0549	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS30AA	2.00	1025	0549	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS30AB	2.00	1025	0549	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS30AC	2.00	1025	0549	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS30AD	2.00	1025	0549	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS30B	3.00	1025	0549	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32AA	1.50	0992	0546	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32AB	1.50	0992	0546	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32AC	1.50	0992	0546	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32AD	1.50	0992	0546	CS/0.281	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32GA	2.00	0992	0546	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32GB	2.00	0992	0546	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32GC	2.00	0992	0546	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MS32GD	2.00	0992	0546	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1MSA	24.00	0982	0549	CS/1.219	NO	N/A	B9.11 B9.31 B10.10	VO/SU	
1MSASA	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSASB	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSB	24.00	0982	0549	CS/1.219	NO	N/A	B9.11 B9.31 B10.10	VO/SU	
1MSBSA	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSBSB	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 MAIN STEAM (MS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1MSBSC	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1MSBSD	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSBSE	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSC	24.00	0982	0549	CS/1.219	NO	N/A	B9.11 B9.31 B10.10	VO/SU	
1MSCSA	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSCSB	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSCSC	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSCSD	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSCSE	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSCSF	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSD	24.00	0982	0549	CS/1.219	NO	N/A	B9.11 B9.31 B10.10	VO/SU	
1MSDSA	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSDSB	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	
1MSDSC	8.00	0982	0549	CS/1.125	NO	N/A	B9.11	VO/SU	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 NUCLEAR BOILER (NB)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
INB01A	4.00	1200	0534	CS/0.438	NO	N/A	B9.11	VO/SU	
INB01B	2.00	1200	0534	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	
INB02A	2.00	1200	0534	CS/0.344	YES	IWB-1220(A) MAKEUP	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 RESIDUAL HEAT REMOVAL (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RH03CA	12.00	1025	0550	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	
1RH03CB	12.00	1025	0550	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	
1RH03DA	10.00	1025	0550	CS/0.719	NO	N/A	B9.11 B5.130	VO/SU	
1RH03DB	10.00	1025	0550	CS/0.719	NO	N/A	B9.11 B5.130	VO/SU	
1RH04B	12.00	1025	0550	CS/0.844	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1RH04C	10.00	1025	0550	CS/0.719	NO	N/A	B9.11 B5.130	VO/SU	
1RH09A	18.00	1050	0552	CS/1.156	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
1RH09C	18.00	1050	0552	SS/1.000	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RH46B	4.00	1175	0550	CS/0.438	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.

TABLE  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 REACTOR CORE ISOLATION COOLING (RI)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
IRI03B	6.00	1230	0300	CS/0.562	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
IRI03C	4.00	1230	0300	CS/0.438	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
IRI04A	8.00	1177	0550	CS/0.500	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.
IRI29A	4.00	1230	0300	CS/0.438	NO	N/A	B9.11 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.

TABLE 11  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
REACTOR RECIRCULATION (RR)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RR04AA	2.00	1040	0533	SS/0.218	YES	IWB-1220(A) MAKEUP	B9.11	N/A	
1RR04AB	2.00	1040	0533	SS/0.218	YES	IWB-1220(A) MAKEUP	B9.11	N/A	
1RR15A	2.00	1040	0534	CS/0.344	YES	IWB-1220(A) MAKEUP	B9.11	N/A	
1RRA	20.00			SS/1.031	NO	N/A	B9.11 B9.31 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAA	10.00			SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAB	10.00			SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAC	10.00			SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRACRW	4.00			SS/0.337	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAD	10.00			SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRADRW	4.00			SS/0.337	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAE	10.00			SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRAM	16.00			SS/0.844	NO	N/A	B9.11 B9.31	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRB	20.00			SS/1.031	NO	N/A	B9.11 B9.31 B10.10	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBCRW	4.00	1025	0533	SS/0.337	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBDRW	4.00	1025	0533	SS/0.337	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 REACTOR RECIRCULATION (RR)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RRBF	10.00	1025	0533	SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBG	10.00	1025	0533	SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBH	10.00	1025	0533	SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBJ	10.00	1025	0533	SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBK	10.00	1025	0533	SS/0.594	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RRBM	16.00	1025	0533	SS/0.844	NO	N/A	B9.11 B9.31	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
REACTOR WATER CLEANUP (RT)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RT01AA	4.00	1040	0534	CS/0.438	NO	N/A	B9.11	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(F.1) OF INSERVICE EXAMINATION PLAN.  AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.  AUGMENTED INSPECTION PERFORMED PER 1.2(I) AND (J) OF INSERVICE EXAMINATION PLAN.
1RT01AB	4.00	1040	0534	CS/0.438	NO	N/A	B9.11	VO/SU	
1RT01B	6.00	1040	0534	CS/0.562	NO	N/A	B9.11 B10.10	VO/SU	
1RT01EA	4.00	1040	0534	SS/0.337	NO	N/A	B5.130 B9.11 B9.32	VO/SU	
1RT01EB	4.00	1040	0534	SS/0.337	NO	N/A	B5.130 B9.11 B9.32	VO/SU	
1RT01EC	4.00	1040	0534	CS/0.337	NO	N/A	B9.11	VO/SU	
1RT01ED	4.00	1040	0534	CS/0.337	NO	N/A	B9.11	VO/SU	
1RT28A	3.00	1040	0534	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1RT28B	3.00	1040	0534	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1RT28C	3.00	1040	0534	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1RT28D	3.00	1040	0534	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	

TABLE VI  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 STANDBY LIQUID CONTROL (SC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SC02CA	1.50	1025	0110	SS/0.200	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02CB	1.50	1025	0110	SS/0.200	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02DA	3.00	1025	0185	SS/0.300	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02DB	3.00	1025	0135	SS/0.300	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02DC	3.00	1170	0135	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02DD	3.00	1025	0185	SS/0.300	YES	IWB-1220(A) MAKEUP	N/A	N/A	
1SC02DE	3.00	1170	0135	CS/0.438	YES	IWB-1220(A) MAKEUP	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 ALL SYSTEM PIPINGS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
BOLTING ≤ 2 INCHES IN DIAMETER	--			--	NO	N/A	B7.50	VT	
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	B15.50	VT	

TABLE 1  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 PUMPS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1B33C001A	--			--	NO	N/A	B6.180 B6.190 B6.200 B10.20 B12.20 B15.60	VO/SU/VT	
1B33C001B	--			--	NO	N/A	B6.180 B6.190 B6.200 B10.20 B12.20 B15.60	VO/SU/VT	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
VALVES

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1B21F010A	--			--	NO	N/A	B12.50	VT	
1B21F010B	--			--	NO	N/A	B12.50	VT	
1B21F011A	--			--	NO	N/A	B12.50	VT	
1B21F011B	--			--	NO	N/A	B12.50	VT	
1B21F022A	--			--	NO	N/A	B12.50	VT	
1B21F022B	--			--	NO	N/A	B12.50	VT	
1B21F022C	--			--	NO	N/A	B12.50	VT	
1B21F022D	--			--	NO	N/A	B12.50	VT	
1B21F028A	--			--	NO	N/A	B12.50	VT	
1B21F028B	--			--	NO	N/A	B12.50	VT	
1B21F028C	--			--	NO	N/A	B12.50	VT	
1B21F028D	--			--	NO	N/A	B12.50	VT	
1B21F032A	--			--	NO	N/A	B12.50	VT	
1B21F032B	--			--	NO	N/A	B12.50	VT	
1B21F041A	--			--	NO	N/A	B12.50	VT	
1B21F041B	--			--	NO	N/A	B12.50	VT	
1B21F041C	--			--	NO	N/A	B12.50	VT	
1B21F041D	--			--	NO	N/A	B12.50	VT	
1B21F041F	--			--	NO	N/A	B12.50	VT	
1B21F041G	--			--	NO	N/A	B12.50	VT	
1B21F041L	--			--	NO	N/A	B12.50	VT	
1B21F047A	--			--	NO	N/A	B12.50	VT	
1B21F047B	--			--	NO	N/A	B12.50	VT	
1B21F047C	--			--	NO	N/A	B12.50	VT	
1B21F047D	--			--	NO	N/A	B12.50	VT	
1B21F047F	--			--	NO	N/A	B12.50	VT	
1B21F051B	--			--	NO	N/A	B12.50	VT	
1B21F051C	--			--	NO	N/A	B12.50	VT	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 1 COMPONENTS  
VALVES

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1B21F051D	--			--	NO	N/A	B12.50	VT	
1B21F051G	--			--	NO	N/A	B12.50	VT	
1B33F023A	--			--	NO	N/A	B12.50	VT	
1B33F023B	--			--	NO	N/A	B12.50	VT	
1B33F060A	--			--	NO	N/A	B12.50	VT	
1B33F060B	--			--	NO	N/A	B12.50	VT	
1B33F067A	--			--	NO	N/A	B12.50	VT	
1B33F067B	--			--	NO	N/A	B12.50	VT	
1E12F008	--			--	NO	N/A	B12.50	VT	
1E12F009	--			--	NO	N/A	B12.50	VT	
1E12F010	--			--	NO	N/A	B12.50	VT	
1E12F039A	--			--	NO	N/A	B12.50	VT	
1E12F039B	--			--	NO	N/A	B12.50	VT	
1E12F039C	--			--	NO	N/A	B12.50	VT	
1E12F041A	--			--	NO	N/A	B12.50	VT	
1E12F041B	--			--	NO	N/A	B12.50	VT	
1E12F041C	--			--	NO	N/A	B12.50	VT	
1E12F042A	--			--	NO	N/A	B12.50	VT	
1E12F042B	--			--	NO	N/A	B12.50	VT	
1E12F042C	--			--	NO	N/A	B12.50	VT	
1E21F005	--			--	NO	N/A	B12.50	VT	
1E21F006	--			--	NO	N/A	B12.50	VT	
1E21F007	--			--	NO	N/A	B12.50	VT	
1E22F004	--			--	NO	N/A	B12.50	VT	
1E22F005	--			--	NO	N/A	B12.50	VT	
1E22F036	--			--	NO	N/A	B12.50	VT	
1E51F013	--			--	NO	N/A	B12.50	VT	
1E51F063	--			--	NO	N/A	B12.50	VT	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1 COMPONENTS  
 VALVES

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1E51F064	--			--	NO	N/A	B12.50	VT	
1G33F001	--			--	NO	N/A	B12.50	VT	
1G33F004	--			--	NO	N/A	B12.50	VT	
1G33F102	--			--	NO	N/A	B12.50	VT	
BOLTING ≤ 2 INCHES IN DIAMETER	--			--	NO	N/A	B7.70	VT	
ALL INTEGRALLY WELDED ATTACHMENTS	--			--	NO	N/A	B10.30	SU	
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	B15.70	VT	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 PRESSURE VESSELS (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1E12B001A	--			--	NO	N/A	C1.10 C1.20 C1.30 C2.21 C2.22 C3.10 C7.10	VO/SU/VT	HEAT EXCHANGER
1E12B001B	--			--	NO	N/A	C1.10 C1.20 C1.30 C2.21 C2.22 C3.10 C7.10	VO/SU/VT	HEAT EXCHANGER

TABLE T  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 COMPONENT COOLING (CC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1CC42B	10.00	0100	0105	CS/0.500	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1CC42C	6.00	0100	0105	CS/0.562	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1CC43D	6.00	0100	0120	CS/0.432	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1CC43E	10.00	0100	0120	CS/0.844	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1CC44A	8.00	0100	0105	CS/0.322	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1CC46C	8.00	0100	0120	CS/0.594	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 CYCLED CONDENSATE STORAGE (CY)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1CY28B	6.00	0115	0100	CS/0.280	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	

TABLE 1  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 FUEL POOL COOLING & CLEANUP (FC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FC01D	10.00	0010	0120	SS/0.365	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1FC17B	8.00	0110	0120	SS/0.322	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 FIRE PROTECTION (FP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FP01D	10.00	0130	0095	CS/0.365	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1FP01F	10.00	0130	0095	CS/0.365	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	
1FP49G	6.00	0130	0095	CS/0.280	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 FEEDWATER (FW)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FW02FA	20.00	1150	0425	CS/1.969	NO	N/A	C5.51	VO/SU	
1FW02FB	20.00	1150	0425	CS/1.969	NO	N/A	C5.51	VO/SU	

TABLE I  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
COMBUSTIBLE GAS CONTROL (HG)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1HG05AA	6.00	0003	0310	CS/0.280	YES	IWC-1222(d)	N/A	N/A	
1HG05AB	6.00	0003	0310	CS/0.280	YES	IWC-1222(d)	N/A	N/A	
1HG05BA	6.00	0003	0310	CS/0.280	YES	IWC-1222(d)	N/A	N/A	
1HG05BB	6.00	0003	0310	CS/0.280	YES	IWC-1222(d)	N/A	N/A	
1HG05CA	6.00	0003	0310	SS/0.432	YES	IWC-1222(d)	N/A	N/A	
1HG05CB	6.00	0003	0310	SS/0.432	YES	IWC-1222(d)	N/A	N/A	
1HG06AA	10.00	0003	0310	CS/0.365	YES	IWC-1222(d)	N/A	N/A	
1HG06AB	10.00	0003	0310	CS/0.365	YES	IWC-1222(d)	N/A	N/A	
1HG06AC	10.00	0003	0310	CS/0.365	YES	IWC-1222(d)	N/A	N/A	
1HG06AD	10.00	0003	0310	CS/0.365	YES	IWC-1222(d)	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
HIGH PRESSURE CORE SPRAY (HP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1HP01A	20.00	0025	0185	SS/0.875	YES	IWC-1221(f)	N/A	N/A	
1HP01B	20.00	0025	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1HP01C	24.00	0025	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1HP02A	14.00	1200	0185	CS/1.094	NO	N/A	C5.51 C3.20	VO/SU	
1HP02B	10.00	1170	0185	CS/0.844	NO	N/A	C5.51	VO/SU	
1HP02F	16.00	1200	0185	CS/1.219	NO	N/A	C5.51	VO/SU	
1HP05B	16.00	0025	0120	SS/0.375	NO	N/A	C5.11	VO/SU	
1HP05C	16.00	0025	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1HP18A	12.00	1200	0185	CS/1.000	NO	N/A	C5.51	VO/SU	
1HP18B	12.00	0025	0120	CS/0.375	YES	IWC-1221(f)	N/A	N/A	
1HP18C	12.00	0025	0120	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1HP18D	10.00	1200	0185	CS/0.844	NO	N/A	C5.51	VO/SU	
1HP18E	10.00	0025	0120	CS/0.365	YES	IWC-1221(f)	N/A	N/A	
1HP18F	12.00	1200	0185	CS/1.000	NO	N/A	C5.51	VO/SU	
1HP18G	12.00	0025	0120	CS/0.688	YES	IWC-1221(f)	N/A	N/A	
1HP19A	10.00	1200	0185	CS/0.844	NO	N/A	C5.51	VO/SU	

TABLE XI  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 MSIV LEAKAGE CONTROL (IS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1IS24A	8.00	0003	0178	CS/0.322	YES	IWC-1222(C) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 LOW PRESSURE CORE SPRAY (LP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1LP01A	20.00	0050	0185	SS/0.875	NO	N/A	C5.11	VO/SU	
1LP01B	20.00	0050	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1LP02A	12.00	0385	0185	CS/0.406	NO	N/A	C5.51 C3.20	VO/SU	
1LP02D	14.00	0385	0185	CS/0.438	NO	N/A	C5.51	VO/SU	
1LP02E	10.00	0385	0185	CS/0.365	NO	N/A	C5.51	VO/SU	
1LP05A	16.00	0050	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1LP18A	10.00	0385	0185	CS/0.365	NO	N/A	C5.51	VO/SU	
1LP18B	10.00	0050	0185	CS/0.365	YES	IWC-1221(f)	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 MAIN STEAM (MS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1MS01EA	24.00	0982	0544	CS/1.219	NO	N/A	C5.51	VO/SU	
1MS01EB	24.00	0982	0544	CS/1.219	NO	N/A	C5.51	VO/SU	
1MS01EC	24.00	0982	0544	CS/1.219	NO	N/A	C5.51	VO/SU	
1MS01ED	24.00	0982	0544	CS/1.219	NO	N/A	C5.51	VO/SU	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
RESIDUAL HEAT REMOVAL (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RH01AA	20.00	0025	0185	SS/0.875	NO	N/A	C5.11	VO/SU	
1RH01AB	20.00	0025	0185	SS/0.875	NO	N/A	C5.11	VO/SU	
1RH01AC	20.00	0025	0185	SS/0.875	NO	N/A	C5.11	VO/SU	
1RH01BA	20.00	0150	0344	CS/0.375	NO	N/A	C5.51 C3.20	VO/SU	
1RH01BB	20.00	0150	0344	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH01BC	20.00	0055	0185	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH02AA	14.00	0381	0344	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH02AB	14.00	0381	0344	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH03AA	14.00	0381	0300	CS/0.438	NO	N/A	C5.51 C3.20	VO/SU	
1RH03AB	14.00	0381	0300	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH03BA	12.00	0381	0185	CS/0.406	NO	N/A	C5.51 C3.20	VO/SU	
1RH03BB	12.00	0381	0185	CS/0.375	NO	N/A	C5.51 C3.20	VO/SU	
1RH03EA	18.00	0381	0344	CS/0.562	NO	N/A	C5.51	VO/SU	
1RH03EB	18.00	0381	0344	CS/0.562	NO	N/A	C5.51	VO/SU	
1RH03FB	12.00	0381	0185	CS/0.406	NO	N/A	C5.51	VO/SU	
1RH04A	14.00	0304	0185	CS/0.438	NO	N/A	C5.51 C3.20	VO/SU	
1RH04D	12.00	0304	0185	CS/0.406	NO	N/A	C5.51	VO/SU	
1RH06A	16.00	0150	0344	CS/0.375	NO	N/A	C5.51 C3.20	VO/SU	
1RH07A	16.00	0150	0344	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH07B	18.00	0150	0344	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH07C	16.00	0150	0344	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH08A	14.00	0150	0344	CS/0.375	NO	N/A	C5.51 C3.20	VO/SU	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
RESIDUAL HEAT REMOVAL (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RH08B	14.00	0055	0180	CS/0.375	NO	N/A	C5.51	VO/SU	
1RH09B	18.00	0150	0344	CS/0.375	NO	N/A	C5.51 C3.20	VO/SU	
1RH22AA	14.00	0381	0344	CS/0.438	NO	N/A	C5.51 C3.20 C5.81	VO/SU	
1RH22AB	14.00	0381	0344	CS/0.438	NO	N/A	C5.51 C3.20 C5.81	VO/SU	
1RH22BA	18.00	0381	0344	CS/0.562	NO	N/A	C5.51	VO/SU	
1RH22BB	18.00	0381	0344	CS/0.562	NO	N/A	C5.51	VO/SU	
1RH27C	6.00	0025	0185	CS/0.280	YES	IWC-1221(f)	N/A	N/A	
1RH28B	6.00	00.0	0140	CS/0.280	YES	IWC-1221(f)	N/A	N/A	
1RH28C	6.00	00.0	0140	SS/0.280	YES	IWC-1221(f)	N/A	N/A	
1RH29DA	6.00	0381	0388	CS/0.280	NO	N/A	C5.51 C5.81	VO/SU	
1RH29DB	6.00	0381	0388	CS/0.280	NO	N/A	C5.51	VO/SU	
1RH29EA	14.00	0381	0388	CS/0.438	NO	N/A	C5.51 C5.81	VO/SU	
1RH29EB	14.00	0381	0388	CS/0.438	NO	N/A	C5.51 C5.81	VO/SU	
1RH29GA	6.00	0381	0388	CS/0.432	NO	N/A	C5.51	VO/SU	
1RH29GB	6.00	0381	0388	CS/0.280	NO	N/A	C5.51	VO/SU	
1RH30AA	8.00	0381	0388	CS/0.500	NO	N/A	C5.51 C5.81	VO/SU	
1RH30AB	8.00	0381	0388	CS/0.322	NO	N/A	C5.51 C5.81	VO/SU	
1RH30BA	12.00	00.0	0148	CS/0.375	YES	IWC-1221(f)	N/A	N/A	
1RH30BB	12.00	00.0	0148	CS/0.375	YES	IWC-1221(f)	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
RESIDUAL HEAT REMOVAL (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RH30CA	12.00	00.0	0148	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RH30CB	12.00	00.0	0148	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RH30DA	12.00	00.0	0148	CS/0.688	YES	IWC-1221(f)	N/A	N/A	
1RH30DB	12.00	00.0	0148	CS/0.688	YES	IWC-1221(f)	N/A	N/A	
1RH37AA	12.00	0381	0300	CS/0.406	NO	N/A	C5.51	VO/SU	
1RH38AA	14.00	0381	0300	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH38AB	14.00	0381	0300	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH38BA	14.00	0025	0185	CS/0.375	YES	IWC-1221(f)	N/A	N/A	
1RH38BB	14.00	0025	0185	CS/0.375	YES	IWC-1221(f)	N/A	N/A	
1RH38CA	14.00	0025	0185	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RH38CB	14.00	0025	0185	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RH38DA	14.00	0025	0185	CS/0.750	YES	IWC-1221(f)	N/A	N/A	
1RH38DB	14.00	0025	0185	CS/0.750	YES	IWC-1221(f)	N/A	N/A	
1RH39A	14.00	0304	0180	CS/0.438	NO	N/A	C5.51	VO/SU	
1RH39B	14.00	0025	0148	CS/0.375	YES	IWC-1221(f)	N/A	N/A	
1RH39C	14.00	0025	0120	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RH39D	14.00	0025	0185	CS/0.750	YES	IWC-1221(f)	N/A	N/A	
1RH40AA	10.00	0381	0300	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	
1RH40AB	10.00	0381	0300	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	
1RH40BA	10.00	1150	0425	CS/1.125	NO	N/A	C5.51 C3.20	VO/SU	
1RH40BB	10.00	1150	0425	CS/1.125	NO	N/A	C5.51 C3.20	VO/SU	
1RH50AA	10.00	0381	0185	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	
1RH50AB	10.00	0381	0185	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
RESIDUAL HEAT REMOVAL (RH)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RH50BA	10.00	0085	0185	CS/0.365	YES	IWC-1221(f)	N/A	N/A	
1RH50BB	10.00	0085	0185	CS/0.365	YES	IWC-1221(f)	N/A	N/A	
1RH50CA	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50CB	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50DA	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50DB	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50EA	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50EB	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50F	8.00	0085	0185	CS/0.322	YES	IWC-1221(f)	N/A	N/A	
1RH50GB	10.00	0381	0185	CS/0.594	NO	N/A	C5.51	VO/SU	
1RH51CA	10.00	0381	0185	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	
1RH51CB	10.00	0381	0185	CS/0.365	NO	N/A	C5.51 C3.20	VO/SU	
1RH62A	10.00	0025	0185	CS/0.365	YES	IWC-1221(f)	N/A	N/A	
1RH97A	10.00	0304	0185	CS/0.365	NO	N/A	C5.51	VO/SU	
1RHC6A	16.00	0150	0344	CS/0.375	NO	N/A	C5.51	VO/SU	
1RHE1AA	20.00	0025	0185	CS/0.375		N/A	C5.51	VO/SU	
1RHE1AB	20.00	0025	0185	CS/0.375		N/A	C5.51	VO/SU	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 REACTOR CORE ISOLATION COOLING (RI)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1RI01B	6.00	0025	0100	SS/0.280		N/A	C5.11	VO/SU	
1RI01C	6.00	0060	0170	CS/0.280		N/A	C5.51	VO/SU	
1RI02A	6.00	0025	0170	SS/0.432	YES	1WC-1221(f)	N/A	N/A	
1RI02B	6.00	0025	0170	CS/0.280	NO	N/A	C5.51	VO/SU	
1RI03A	6.00	1280	0170	CS/0.562	NO	N/A	C5.51 C3.20	VO/SU	
1RI04B	8.00	1177	0550	CS/0.500	NO	N/A	C5.51	VO/SU	
1RI04C	8.00	1177	0550	CS/0.500	NO	N/A	C5.51	VO/SU	
1RI07A	12.00	0010	0250	CS/0.375	NO	N/A	C5.51	VO/SU	
1RI08A	12.00	0010	0250	CS/0.375	NO	N/A	C5.51	VO/SU	
1RI08B	12.00	0010	0250	SS/0.625	YES	IWC-1221(f)	N/A	N/A	
1RI08C	12.00	0010	0250	CS/0.688	YES	IWC-1221(f)	N/A	N/A	
1RI43A	8.00	0010	0250	CS/0.322	NO	N/A	C5.51 C3.20	VO/SU	
1RI69A	10.00	1177	0550	CS/0.719	NO	N/A	C5.51	VO/SU	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 SERVICE AIR (SA)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SA103A	6.00	0120	0120	CS/0.280	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SAB1B	6.00	0120	0120	CS/0.280	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 STANDBY LIQUID CONTROL (SC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ISC01A	6.00	0150	0104	SS/0.280	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
SCRAM DISCHARGE VOLUME (SD)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SD27010	10.00	1250	0280	CS/0.594	NO	N/A	C5.51	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(O) OF INSERVICE EXAMINATION PLAN.
1SD27012	12.00	1250	0280	CS/0.844	NO	N/A	C5.51 C3.20	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(O) OF INSERVICE EXAMINATION PLAN.
1SD9010	10.00	1250	0280	CS/0.594	NO	N/A	C5.51	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(O) OF INSERVICE EXAMINATION PLAN.
1SD9012	12.00	1250	0280	CS/0.844	NO	N/A	C5.51 C3.20	VO/SU	AUGMENTED INSPECTION PERFORMED PER 1.2(O) OF INSERVICE EXAMINATION PLAN.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 SUPPRESSION POOL CLEANUP & TRANSFER

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SF01E	10.00	0101	0095	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SF01F	12.00	0101	0095	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SF01G	12.00	0101	0095	SS/0.406	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SF02A	12.00	0040	0095	SS/0.406	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 SUPPRESSION POOL MAKEUP (SM)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SM01AA	24.00	0035	0150	SS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SM01AB	24.00	0035	0150	SS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SM01BA	24.00	0035	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1SM01BB	24.00	0035	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 DRYWELL CHILLED WATER (VP)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1VP02BA	10.00	0135	0045	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VP02BB	10.00	0135	0045	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VP03DA	10.00	0135	0045	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VP03DB	10.00	0135	0045	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
DRYWELL PURGE (VQ)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1VQ01A	24.00	0002	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VQ02A	24.00	0002	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VQ02B	36.00	0002	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VQ05A	36.00	0002	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VQ13A	10.00	0002	0185	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VQ19A	24.00	0003	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 CONTAINMENT HVAC (VR)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1VR01B	36.00	0002	0110	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VR09C	12.00	0003	0130	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1VR14A	12.00	0003	0150	CS/0.375	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 2 COMPONENTS  
PLANT CHILLED WATER (WO)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1WOH1C	10.00	0205	0060	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1WOK3B	6.00	0205	0060	CS/0.280	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	
1WOK3C	10.00	0205	0060	CS/0.365	YES	IWC-1222(c) OPERATING P&T	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 ALL SYSTEM PIPINGS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	C7.30	VT	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 PUMPS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1C41C001A	--			--	YES	IWC-1222(a) SIZE	N/A	N/A	
1C41C001B	--			--	YES	IWC-1222(a) SIZE	N/A	N/A	
1E12C002A	--			--	NO	N/A	C6.10	SU	
1E12C002B	--			--	NO	N/A	C6.10	SU	
1E12C002C	--			--	NO	N/A	C6.10	SU	
1E12C003	--			--	YES	IWC-1221(a)	N/A	N/A	
1E21C001	--			--	NO	N/A	C6.10	SU	
1E21C002	--			--	YES	1WC-1221(a)	N/A	N/A	
1E22C001	--			--	NO	N/A	C6.10	SU	
1E22C003	--			--	YES	IWC-1221(a)	N/A	N/A	
1E51C001	--			--	NO	N/A	C6.10 C3.30	SU	
1E51C003	--			--	YES	1WC-1221(a)	N/A	N/A	
ALL INTEGRALLY WELDED ATTACHMENTS	--			--	NO	N/A	C3.30	SU	
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	C7.50	VT	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 2 COMPONENTS  
 VALVES

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL INTEGRALLY WELDED ATTACHMENTS	--			--	NO	N/A	C3.40	SU	
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	C7.70	VT	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 PRESSURE VESSELS (PV)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	D1.10 D2.10 D3.10	VT	SYSTEM INSERVICE TEST OR FUNCTIONAL TEST EVERY INSPECTION PERIOD.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 COMPONENT COOLING (CC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1CC02FA	14.00	0100	0105	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC02FB	14.00	0100	0105	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC03AA	14.00	0100	0120	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC03AB	14.00	0100	0120	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC65AA	14.00	0100	0105	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC65AB	14.00	0100	0105	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC67AA	14.00	0100	0120	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1CC67AB	14.00	0100	0120	CS/0.375	YES	IWD-1220.2	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
FUEL POOL COOLING & CLEANUP (FC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FC01BA	10.00	0010	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC01BB	10.00	0010	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC01C	10.00	0010	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC01E	10.00	0019	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC01FA	10.00	0019	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC01FB	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC01GA	12.00	0010	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC01GB	12.00	0010	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC01H	12.00	0010	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC07AA	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC07AB	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC07B	16.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC07CA	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC07CB	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC08A	16.00	0110	0100	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC09AA	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC09AB	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC09BA	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC09BB	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC09CA	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC09CB	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC09DA	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC09DB	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC10AA	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC10AB	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC10B	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC12C	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC12DA	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
FUEL POOL COOLING & CLEANUP (FC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FC12DB	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC14AA	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14AB	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14B	16.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14CA	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14CB	--	0110	0120	--			N/A		VOID PER FECN 15666 (MODIFICATION FC-017)
1FC14CC	--	0110	0120	--			N/A		VOID PER FECN 15666 (MODIFICATION FC-017)
1FC14CD	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14D	16.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14E	14.00	0110	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC14F	14.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	LINE SIZE CHANGED PER FECN 15666 (MODIFICATION FC-017)
1FC15A	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC17A	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC17C	8.00	0110	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC17D	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC23AA	12.00	0110	0100	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC23AB	12.00	0110	0100	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC23BA	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC23BB	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC23CA	10.00	0110	0100	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC23CB	10.00	0110	0100	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC25AA	12.00	0010	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC25AB	12.00	0010	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC27C	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC28AA	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC28AB	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC31AA	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC31AB	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
FUEL POOL COOLING & CLEANUP (FC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FC37A	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC41A	6.00	0010	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC43AA	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC43AB	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC44AA	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC44AB	12.00	0110	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC45AB	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FC47A	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC47B	8.00	0019	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC51AA	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC51AB	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC53AA	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC53AB	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC55AA	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC55AB	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC57AA	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC57AB	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC57BA	8.00	0019	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC57BB	8.00	0019	0120	SS/0.322	YES	IWD-1220.2	N/A	N/A	
1FC59A	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC63B	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC70A	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FC70B	12.00	0019	0120	SS/0.406	YES	IWD-1220.2	N/A	N/A	
1FC70CA	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC70CB	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC70DA	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC70DB	14.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC70EA	16.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 FUEL POOL COOLING & CLEANUP (FC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1FC70EB	16.00	0019	0120	SS/0.375	YES	IWD-1220.2	N/A	N/A	
1FC74A	6.00	0019	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCB3AA	6.00	0110	0100	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCB3AB	6.00	0110	0100	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCB3BA	8.00	0110	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	
1FCB3BB	8.00	0110	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	
1FCB7A	10.00	0019	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FCB8A	12.00	0110	0100	CS/0.375	YES	IWD-1220.2	N/A	N/A	
1FCB9A	6.00	0110	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCB9B	6.00	0110	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCB9C	8.00	0110	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	
1FCG9A	6.00	0110	0120	SS/0.280	YES	IWD-1220.2	N/A	N/A	
1FCH9AA	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	
1FCH9AB	10.00	0110	0120	SS/0.365	YES	IWD-1220.2	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
MAIN STEAM (MS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
LMS14BA	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14BB	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14BD	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14CA	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14CB	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS14CD	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15BA	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15BB	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15BD	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15CA	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15CB	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS15CD	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16BB	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16BD	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16CB	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS16CD	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS17BB	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS17BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS17CB	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS17CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS18BB	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
LMS18BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
MAIN STEAM (MS)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1MS18CB	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MS18CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MS19BC	12.00	0570	0494	CS/0.406	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MS19CC	10.00	0570	0494	SS/0.500	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AA	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AB	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AC	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AD	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AE	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AF	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AG	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AH	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AJ	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AK	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AL	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AM	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AN	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AP	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AR	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
1MSC5AS	10.00			CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 REACTOR WATER CLEANUP (RT)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
IRT01C	6.00	1040	0534	CS/0.562	NO	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT02F	6.00	1228	0534	CS/0.562	NO	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT05FA	6.00	1141	0120	CS/0.562	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT05FB	6.00	1141	0120	CS/0.562	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT06A	6.00	1130	0437	CS/0.562	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT06FA	6.00	1130	0437	CS/0.562	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT06FB	6.00	1130	0437	CS/0.562	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT100A	10.00	0080	0120	CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT100B	10.00	0080	0120	CS/0.365	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT20AA	8.00	1208	0120	CS/0.719	NO	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT20AB	8.00	1208	0120	CS/0.719	NO	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT20BA	8.00	0080	0120	CS/0.322	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	
IRT20BB	8.00	0080	0120	CS/0.322	YES	NO D-A, D-B, D-C FUNCTION	N/A	N/A	

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
SHUTDOWN SERVICE WATER (SX)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SX01AA	30.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX01AB	30.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX01AC	10.00	0090	0095	CS/0.365	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX02AA	30.00	0120	0095	CS/0.375	NO	N/A	D2.20	VT	
1SX02AB	30.00	0120	0095	CS/0.375	NO	N/A	D2.20	VT	
1SX02AC	10.00	0090	0095	CS/0.365	NO	N/A	D2.20	VT	
1SX02BA	18.00	0120	0095	CS/0.375	NO	N/A	D2.20	VT	
1SX02BB	18.00	0120	0095	CS/0.375	NO	N/A	D2.20	VT	
1SX02CA	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX02CB	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX02CC	8.00	0090	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX03AA	18.00	0120	0110	CS/0.375	NO	N/A	D2.20	VT	
1SX03AB	18.00	0120	0110	CS/0.375	NO	N/A	D2.20	VT	
1SX03BA	30.00	0120	0110	CS/0.375	NO	N/A	D2.20	VT	
1SX03BB	30.00	0120	0110	CS/0.375	NO	N/A	D2.20	VT	
1SX04AA	8.00	0120	0110	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX04AB	8.00	0120	0110	CS/0.322	NO	N/A	D2.20	VT	
1SX04AC	8.00	0090	0110	CS/0.322	NO	N/A	D2.20	VT	
1SX04B	10.00	0090	0110	CS/0.365	NO	N/A	D2.20	VT	
1SX06AA	20.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX06AB	20.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX06AC	8.00	0090	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX09A	16.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX10AA	18.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX10AB	18.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX10BB	12.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX11AA	14.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX11AB	14.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.

TABLE II  
ILLINOIS POWER COMPANY  
CLINTON POWER STATION UNIT 1  
SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
CLASS 3 COMPONENTS  
SHUTDOWN SERVICE WATER (SX)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
1SX13AA	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX13AB	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX15AA	6.00	0120	0095	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX16A	6.00	0120	0095	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX17AA	6.00	0120	0110	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX182A	12.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX18B	6.00	0120	0110	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX20AA	8.00	0120	0110	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX20AB	8.00	0120	0110	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX26AA	20.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX26AB	20.00	0120	0095	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX26AC	8.00	0090	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX27AA	14.00	0120	0110	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX27AB	14.00	0120	0110	CS/0.375	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX29CA	6.00	0120	0110	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX29CB	6.00	0120	0110	CS/0.280	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX32AA	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX32AB	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX33AA	8.00	0120	0110	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SX33AB	8.00	0120	0110	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SXK3AA	10.00	0120	0095	CS/0.365	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
1SXK3AB	10.00	0120	0095	CS/0.365	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
2SX13AA	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.
2SX13AB	8.00	0120	0095	CS/0.322	YES		N/A	N/A	NO INTEGRAL ATTACHMENTS ON THIS LINE.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 CONTROL ROOM HVAC (VC)

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
OVC02AA	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC02AB	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC03AA	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC03AB	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC04AA	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC04AB	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC05CA	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC05CB	6.00	0065	0100	CS/0.280	YES	IWD-1220.2	N/A	N/A	
OVC110AA	8.00	0065	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	
OVC28AA	18.00	0065	0100	CS/0.375	YES	IWD-1220.2	N/A	N/A	
OVC28AB	18.00	0065	0100	CS/0.375	YES	IWD-1220.2	N/A	N/A	
OVC30AA	8.00	0065	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	
OVC30AB	8.00	0065	0100	CS/0.322	YES	IWD-1220.2	N/A	N/A	

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 ALL SYSTEM PIPINGS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	D1.10 D2.10 D3.10	VT	SYSTEM INSERVICE TEST OR FUNCTIONAL TEST EVERY INSPECTION PERIOD.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER PLANT REACTOR SYSTEM  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 PUMPS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL INTEGRALLY WELDED ATTACHMENTS	--			--	NO	N/A	SEE REMARKS	VT	ASME SECTION XI ITEM NO D1.20 THROUGH D1.60, D2.20 THROUGH D2.60, OR D3.20 THROUGH D3.60, AS APPLICABLE.
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	D1.10 D2.10 D3.10	VT	SYSTEM INSERVICE TEST OR FUNCTIONAL TEST EVERY INSPECTION PERIOD.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 3 COMPONENTS  
 VALVES

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL PRESSURE RETAINING BOUNDARIES	--			--	NO	N/A	D1.10 D2.10 D3.10	VT	SYSTEM INSERVICE TEST OR FUNCTIONAL TEST EVERY INSPECTION PERIOD.

TABLE II  
 ILLINOIS POWER COMPANY  
 CLINTON POWER STATION UNIT 1  
 SECOND TEN YEAR INTERVAL

INSERVICE EXAMINATION PLAN (REVISION 6)  
 CLASS 1, 2 AND 3 COMPONENT SUPPORTS

EIN	PIPE LINE SIZE	MAX PRESS	MAX TEMP	MATERIAL/ THICKNESS	EXEMPT	EXEMPTION BASIS	ASME SEC XI ITEM NO	CODE EXAM METHOD	REMARKS
ALL COMPONENT SUPPORTS OF THOSE COMPONENTS NOT LISTED AS EXEMPT IN THE INSERVICE EXAMINATION PLAN	--			--	NO	N/A	SEE REMARKS	VT	ASME SEC XI ITEM NO F1.10 THROUGH F1.40, AS APPLICABLE.

TABLE III

CLINTON POWER STATION UNIT 1

PIPING LINE LIST REFERENCES

System	P&ID Number	Piping Line List Revision Date
Reactor Recirculation - RR/B33	M05-1072	04/08/86
Reactor Water Clean-up - RT/G33/G36	M05-1076	12/12/94
Service Air - SA	M05-1048	10/24/94
Standby Liquid Control - SC	M05-1077	04/08/86
Suppression Pool Clean-up & Transfer - SF	M05-1060	04/08/86
Suppression Pool Makeup System - SM	M05-1069	06/04/91
Screenwash - SW	M05-1051	12/24/87
Shutdown Water System - SX	M05-1052	02/20/96
Turbine Generator Misc. Vents & Drain - TD	M05-1011	12/20/95
Turbine Rad. Off-Gas Control & Diesel Gen. Bldg. Equipment Drains - TE	M05-1053	08/03/95
Floor Drains - TF	M05-1054	02/21/92
Filtered Water - TW	M05-1058	06/04/91
Control Room HVAC - VC	M05-1102	02/25/88
Diesel Generator Room HVAC - VD	M05-1103	11/18/85
Fuel Bldg. HVAC - VF	M05-1104	05/10/84
Standby Gas Treatment - VG	M04-1105	02/25/88
Pump House HVAC - VH	M05-1106	05/03/84
Machine Shop HVAC - VJ	M05-1107	11/05/82
Lab & Counting Rm. Humid. Steam - VL	M05-1118	05/03/84
Chilled Water - VP	M05-1109	06/04/91
Drywell Purge - VQ	M05-1110	02/03/88
Containment Bldg. Ventilation - VR	M05-1111	02/27/88
Chilled Water - VS	M05-1112	06/04/91
Misc. Vents - VV	M05-1119,1120, 1122,1117	11/04/87
Radwaste Bldg. HVAC - VW	M05-1114	05/13/84
Essential Switchgear Heat Removal - VX	M10-9115	11/04/87
Potable Water - WD	M05-1061	11/04/87
Equipment Drain Radwaste Reprocessing & Disposal - WE	M05-1085/2085	09/13/93
Floor Drain Radwaste Reprocessing & Disposal - WF	M05-1086/2086	11/04/87
Makeup Water Pump House - WM	M05-1055	12/08/93
Chilled Water - WO	M05-1117	06/04/91
Plant Service Water - WS	M05-1056	12/20/93
Turbine Bldg. Closed Cooling Water - WT	M05-1057	05/03/84
Solid Radwaste Collection & Processing - WX	M05-1089	06/17/91
Laundry Equipment & Floor Drain - WY	M05-1088	05/15/87
Chemical Radwaste Processing - WZ	M05-1087-2087	11/04/87

System	P&ID Number	Piping Line List Revision Date
Acid Handling - AC	M05-1030	05/28/91
Auxiliary Steam - AS	M05-1031	02/20/96
Condenser Vacuum - CA	M05-1018	06/04/91
Condensate Booster - CB	M05-1006	02/01/85
Component Cooling Water - CC	M05-1032	08/30/94
Condensate - CD	M05-1005	11/06/92
Chlorination - CL	M05-1033	02/20/96
Containment Monitoring - CM	M05-1034	05/28/91
CO <sub>2</sub> Fire Protection - CO	M05-9014	12/24/87
Condensate Polishing - CP	M05-1007	11/30/84
Circulating Water - CW	M05-1010	12/20/95
Cycled Condensate - CY	M05-1012	06/28/93
Diesel Generator - DG	M05-1035	06/13/95
Laundry Radwaste Floor Drain - DL	M05-1083	05/03/84
Misc Bldg. Floor Drain - DM	M05-1059	12/20/93
Diesel Oil - DO	M05-1036	05/15/87
Feedwater Heater Misc. Vents and Drain - DV	M05-1009	05/28/91
Extraction Steam - ES	M05-1003	08/01/95
Fuel Pool Cooling & Cleanup - FC	M05-1037	06/04/91
Fuel Transfer - FH	M05-1080	06/28/95
Fire Protection - FP	M05-1039	08/01/95
Feedwater - FW	M05-1004	06/04/91
Turbine Gland Steam Seal System - GS	M05-1016	08/01/95
Feedwater Heat Drain - HD	M05-1008	05/03/84
Combustible Gas Control - HG	M05-1063	04/14/86
High Pressure Core Spray - HP	M05-1074	05/29/91
Hydrogen - HY	M05-1013	04/16/85
Instrument Air - IA	M05-1050	06/01/95
IDNS Equipment - ID	M05-1105	06/25/93
MSIV Leakage Control - IS	M05-1070	04/08/86
Leak Detection - LD	M05-1041	01/21/88
Low Pressure Core Spray	M05-1073	12/24/87
Make-up Condensate Storage - MC	M05-1042	06/25/93
Main Steam - MS/B21	M05-1002	06/28/95
Nuclear Boiler - NB	M05-1071	05/12/94
Off-Gas System - OG/N66	M05-1084	05/24/94
Caustic Handling - OH	M05-1043	05/29/91
Bearing Oil Transfer & Purification - OT	M05-1044	06/28/93
Process Radiation Monitoring - PR	M05-1064	01/21/88
Post Accident Sampling & Analysis - PS	M05-1045	06/13/95
Breathing Air - RA	M05-1065	02/21/92
Control Rod Drive - RD/C11	M05-1078	05/12/94
Equipment Drains - RE	M05-1046	08/01/95
Floor Drains - RF	M05-1047	06/04/91
Refrigeration Piping - RG	M05-1121	06/05/91
Residual Heat Removal - RH/E12	M05-1075	12/15/94
Reactor Core Isolation Cooling - RI/E51	M05-1079	08/03/95

Attachment 2  
to U-603438

***Appendix V, Revision 24***

Revision 24

Date 06/20/00

APPENDIX V

PUMP AND VALVE TESTING PROGRAM PLAN

Revision 24 is issued for the following:

Table 1 - None

Table 2 -

Added Pump and Valve Testing Program Plan  
Key to Table II - Valves

(Continued on Page 2)

Preparer: Richard L. Cole 6/22/00

Peer Reviewer: R. J. Johnson 6/22/00

Approved By: Edo Cer 6/24/00  
Director - Plant Engineering

ANII Concurrence: JM. KL 6/27/00

Change "Illinois Power" to AmerGen in Appendix V text.
ECN 32187 changed normal position from open to closed and deleted stroke time exercise for 0RA026, 0RA027, 0RA028, and 0RA029. Air to these SOV's has been shut off and the solenoids have been deenergized.
Added 0VC016A and 0VC016B to IST Program. These valves were added as a result of CR 1-97-12-311.
Added 1B21-F098A, 1B21-F098B, 1B21-F098C, and 1B21-F098D which have a normal position of open and a safety function to close. CR 2-00-05-072.
Added open exercise test for 1E22-F330, 1E22-F332, 1SM008, 1SM009, 1E51-F377A, 1E51-F377B, 1CM002A, 1CM002B, and 1CM003A excess flow check valves per calculation IP-M-0506 and CR 1-98-04-306.
Added 1E12-F496 and 1E12-F497, 2" Class 2 containment isolation valves and 1E12-F495A, 1E12-F495B, 1E12-F499A, and 1E12-F499B, 2" Class 2 check valves; FW-039 Mod (Feedwater Leakage Control) part of Feedwater Keep Fill System.
Added open exercise test for 1SX315A,B, and 1SX316A,B.

APPENDIX V

PUMP AND VALVE TESTING PROGRAM PLAN  
RECORD OF REVISION SHEET

Revision/Date	Affected Pages
0/ 12/26/85	Initial Issue as CPS 1887.00
1/ 03/18/86	Complete Revision
2/ 07/06/87	Complete Revision
3/ 08/24/87	Complete Revision
4/ 03/01/88	Complete Revision
5/ 05/31/88	Complete Revision
6/ 08/17/88	Revised Table II-page 87
7/ 05/26/89	Complete Revision
8/ 08/31/90	Revised Table II - pages 33 and 53 and Key to Table II
9/ 05/15/91	Complete Revision
10/ 03/11/92	Issued in response to NRC Safety Evaluation Report.
11/ 06/15/92	Complete Revision
12/ 12/22/92	Revised Table 2 - pages 12, 15, 25, and 34.
13/ 06/07/93	Revised Table 2 - pages 13, 14, 23, 25, 26, 31, 41, 42, 47, 48, and 51.
14/ 10/22/93	Revised Table 2 - pages 4, 5, 6, 7, 10, 20, 24 and 25.
15/ 03/07/94	Revised Table 2 - pages 11, 19, 24, 26, 33, and 34.
16/ 10/27/94	Revised Table 2 - pages 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 41, 42, 43, 44, 48, 49, 50, 51 and 52.

APPVROR

17/ 05/17/95 Revised Table 2 - pages 17 and 50.  
Revised Program Description - pages  
4 and 13

18/ 11/03/95 Revised Program Description - pages  
1 and 3. Revised Table II pages 25  
and 30.

19/ 08/08/96 Revised Program to meet 2nd Interval  
Requirements.

20/ 11/17/97 Revised Page 15 of Program  
Description. This revision was  
required as part of the Correction  
Action Plan for CPS Condition Report  
1-97-05-293 concerning non-  
conservative rounding of stop watch  
readings during surveillance testing  
of MSIV's. Minor change to  
definition of stroke time to match  
1989 ASME Code.

21/ 02/24/98 Revised Table 2, Pages 10, 17, 18,  
20, 24, and 25.

22/ 01/25/99 Revised Table 2, Pages 2, 4, 10, 11,  
20, 21, 23, 24, 25, 31, 43, 44, 45,  
53.

23/ 10/26/99 Added Key for Table 2 and revised  
Table 2, pages 7, 8, 10, 11, 12, 13,  
16, 17, 18, 19, 20, 21, 23, 24, 25,  
26, 27, 30, 31, 35, 36, 46, 47, 48,  
49, 50, 51, 52, 53. This revision  
includes administrative/clerical  
changes in addition to technical  
changes. Revision bars are used for  
all changes.

24/ 06/21/00 Revised Table 2, pages 1, 9, 14, 15,  
25, 26, 29, 34, 35, 46, and 55.  
Revision bars used on all changes.

## I. INTRODUCTION

This program plan describes how safety-related pumps and valves will be tested to satisfy the requirements of the ASME Boiler and Pressure Vessel Code Section XI, Rules for the Inservice Inspection of Nuclear Power Plant Components, 1988 Addenda through 1989 Edition, and any additional requirements as listed below. The requirements of this edition and addenda will be used during the second 10-year inspection interval or until a later edition is selected to be used. Later editions must be endorsed in 10CFR50.55a or approved by the appropriate enforcement and regulatory agencies prior to their use. The requirements of this program plan include the relief requests as documented in Appendix III of the ISI Manual.

1988 Addenda through 1989 Edition of ASME Section XI requires certain pumps to be tested in accordance with ASME/ANSI OMa-1988 Addenda PART 6, Inservice Testing of Pumps in Light-Water Reactor Power Plants; and certain valves to be tested in accordance with ASME/ANSI OMa-1988 Addenda PART 10, Inservice Testing of Valves in Light-Water Reactor Power Plants.

Revision to this program will be controlled by AmerGen. Design Changes which could affect this plan will be reviewed by personnel responsible for implementation of ISI requirements to ensure that changes are identified and the plan is revised to remain current. These identified changes to the plan may be implemented prior to revising the plan if approved by personnel responsible for implementation of ISI requirements.

The following documents have been reviewed and incorporated into the ISI Manual as necessary:

- 1) NRC Letter dated September 22, 1987, which attached "NRR's Position on When Technical Specification LCO Action Statement Clock Begins When IST Surveillance Results Are in the Action Range."
- 2) IE Information Notice 86-50 "Inadequate Testing to Detect Failures of Safety-Related Pneumatic Components or Systems." AmerGen review letter Y-86498 dated November 18, 1987.

- 3) IE Information Notice "Check Valve Inservice Testing Program Deficiencies" AmerGen review letter Y-90126 dated December 6, 1988.
- 4) NRC Generic Letter 89-04 "Guidance on Developing Acceptable Inservice Testing Programs" AmerGen review letter Y-91415 dated May 11, 1989.
- 5) NRC Safety Evaluation Report of CPS ISI Program dated September 30, 1991.
- 6) NRC Generic Letter 89-04, Supplement 1 "Guidance on Developing Acceptable Inservice Testing Programs" AmerGen review letters Y-105346, dated September 1, 1995, Y-106554, dated April 9, 1997, and letter Y-106859, dated January 12, 1998.

## II. PUMP TESTING

### A. Scope

This program plan establishes the requirements for inservice testing to assess the operational readiness of certain Class 1, 2, and 3 centrifugal and positive displacement pumps in accordance with ASME/ANSI OMa-1988 Addenda Part 6. The pumps covered are those, provided with an emergency power source, which are required in shutting down the reactor to the cold shutdown condition, maintaining the cold shutdown condition, or mitigating the consequences of an accident. This program plan establishes test intervals, parameters to be measured and evaluated, acceptance criteria, corrective actions, and records requirements. The pumps which are included in this plan are identified in Table I of this plan.

### B. Frequency of Testing

Inservice tests of pumps shall be performed every 3 months during normal plant operations. This frequency shall be maintained during extended cold shutdowns and refueling outages whenever possible. If this frequency cannot be maintained during these shutdown periods, the pump(s) shall be tested within 1 week of the plant being returned to normal operating conditions.

### C. Inservice Test Requirements

The following test parameters shall be measured and recorded during inservice testing of pumps:

1. Speed, N (Variable speed pumps only).
2. Differential pressure,  $\Delta P$  (for Centrifugal Pumps, including vertical line shaft pumps).
3. Discharge pressure, P (for Positive Displacement Pumps).
4. Flow rate, Q.
5. Vibration [either displacement  $V_d$  (Peak-to-Peak) or velocity  $V_v$  (Peak)] shall be measured as follows:
  - (a) On centrifugal pumps, measurements shall be taken in a plane approximately perpendicular to the rotating shaft in two orthogonal directions on each accessible pump bearing housing. Measurement also shall be taken in the axial direction on each accessible pump thrust bearing housing.
  - (b) On vertical line shaft pumps, measurements shall be taken on the upper motor bearing housing in three orthogonal directions, one of which is the axial direction.
  - (c) On reciprocating pumps, the location shall be on the bearing housing of the crankshaft, approximately perpendicular to both the crankshaft and the line of plunger travel.
  - (d) If a portable vibration indicator is used, the reference points must be clearly identified on the pump to permit subsequent duplication in both location and plane.

The following test parameters shall also be observed/measured and recorded to prevent pump damage:

1. Inlet pressure (measured prior to pump startup and during testing).
2. Proper lubrication level for those pumps not lubricated by the fluid being pumped or having grease lubricated bearings.

D. Reference Values

1. Pump testing references values have been established for all pumps included in this program. If additional sets of reference values are needed, they shall be established in accordance with ASME/ANSI OMa-1988, Addenda Part 6, Section 4.5.
2. When a reference value or set of values may have been affected by repair, replacement, or routine servicing of a pump, a new reference value or set of values shall be determined or the previous value reconfirmed by an inservice test run prior to declaring the pump operable. Deviations between the previous and new set of reference values shall be identified, and verification that the new values represent acceptable pump operation shall be placed in the test records.

E. Test Procedures

The procedures utilized for inservice testing shall include the following requirements:

1. Each pump shall be run at least 2 minutes under conditions as stable as the associated system permits. At the end of this time, at least one measurement or observation of each of the quantities shall be made and recorded.
2. The test flow path to be used shall be identified.

3. Instruments which measure the various test quantities shall be identified by instrument number for permanent instruments or type and location if test gauges are to be used.
4. Limits for the quantities to be measured shall be provided in the procedure. Reference values which serve as the basis for the limits shall be available in the ISI Manual.
5. The resistance of the system shall be varied until either the measured differential pressure (discharge pressure for positive displacement pumps), or the measured flow rate equals the corresponding reference value with a tolerance of  $\pm 2$  percent. The test quantities shall then be measured and recorded. Vibration measurements are to be broad band (unfiltered). If velocity measurement are used, they shall be peak. If displacement amplitudes are used, they shall be peak-to-peak.

F. Analysis of Results/Corrective Action

1. The test results analysis shall consist of a comparison of the measured test quantities and the ranges defined in Part 6, Section 6.1.
2. When Test quantities fall within the alert range identified, the testing frequency shall be doubled until the cause of the deviation is determined and the condition corrected.
3. When test quantities fall within the required action range, the pump shall be declared inoperable and not returned to service until the cause of the deviation is determined and the condition corrected.
4. When a test shows deviation outside of the acceptable range of Table 3 in Part 6, the instruments involved may be recalibrated and the test rerun.

G. Inservice Test Records

1. Summary Listing

The Cognizant Plant Engineer shall maintain a log of the pumps in this program and the current status of the program.

2. Pump Records

Manufacturers' pump records shall be maintained in the IP Records Center.

3. Record of Tests

The pump test record shall include the following information:

- a. Pump identification.
- b. Date of test.
- c. Reason for test (routine inservice, post-maintenance, establishing reference values).
- d. Values of measured parameters.
- e. Identification of instruments used.
- f. Comparisons with allowable ranges of test values and analysis of deviations.
- g. Corrective action requirements.
- h. Signatures of personnel conducting the test and analyzing the test results.
- i. Evaluation and justification for changes to reference values.

## H. Instruments

### 1. Accuracy

Instrument accuracy shall be within the following limits:

- a. Pressure -  $\pm 2\%$ .
- b. Differential pressure -  $\pm 2\%$ .
- c. Flow rate -  $\pm 2\%$ .
- d. Speed -  $\pm 2\%$ .
- e. Vibration -  $\pm 5\%$ .

Instrument accuracy tolerances provided apply to the full scale of analog instruments, percent of total loop accuracy for a combination of instruments, or over the calibrated range for digital instruments.

### 2. Range

The full scale range of each analog instrument shall not exceed 3 times the reference value of the parameter being measured. Digital instruments shall be selected such that the reference value shall not exceed 70% of the calibrated range of the instrument. Vibration instruments are excluded from these range requirements.

- 3. The frequency response range of the vibration measuring transducers and their readout system shall be from one-third minimum pump shaft rotational speed to at least 1000 Hz.

### 4. Calibration

Instruments shall be calibrated in accordance with schedules and procedures established for each instrument.

### III. VALVE TESTING

#### A. Scope

This program plan establishes the requirements for inservice testing to assess the operational readiness of certain Class 1, 2, and 3 valves and pressure relief devices (and their actuating and position indicating systems) in accordance with ASME/ANSI OMa-1988 Addenda Part 10. The active or passive valves covered are those which are required to perform a specific function in shutting down the reactor to the cold shutdown condition, in maintaining the cold shutdown condition, or in mitigating the consequences of an accident. The pressure relief devices covered are those for protecting systems or portions of systems which perform a required function in shutting down the reactor to the cold shutdown condition, in maintaining the cold shutdown condition, or in mitigating the consequences of an accident. This program plan establishes test intervals, parameters to be measured and evaluated, acceptance criteria, corrective action, and records requirements.

The following valves are exempt from the requirements of this plan:

1. Valves used only for operating conveniences such as vent, drain, instrument, and test valves.
2. Valves used only for system control (such as pressure regulating valves).
3. Valves used only for system or component maintenance.
4. External control and protection systems responsible for sensing plant conditions and providing signals for valve operation.

The valves which are to be tested under this plan and their ASME Category are listed in Table II.

## B. Frequency of Testing

### 1. Seat leakage tests:

- (a) Containment Isolation Valves - Category A valves, which are containment isolation valves, shall be seat leakage tested in accordance with 10CFR50, Appendix J program.
- (b) Reactor Coolant System Pressure Isolation Valves - Category A valves, which are reactor coolant system pressure isolation valves, shall be seat leakage tested at least once every two (2) years. Reactor coolant system pressure isolation valves which are also containment isolation valves shall additionally be seat leakage tested in accordance with 10CFR50, Appendix J program.
- (c) Other Valves - Category A valves, which perform a function other than containment isolation and/or reactor coolant system pressure isolation, shall be seat leakage tested at least once every two (2) years.

### 2. Exercise and Stroke Time Tests:

Valves shall be tested as follows:

- (a) full-stroke every three (3) months during plant operation to the position(s) required to fulfill its function(s);
- (b) if full-stroke exercising during plant operation is not practicable, it may be limited to part-stroke during plant operation and full-stroke during cold shutdowns;
- (c) if exercising is not practicable during plant operation, it may be limited to full stroke exercising during cold shutdowns;

- (d) if exercising is not practicable during plant operation and full-stroke during cold shutdowns is also not practicable, it may be limited to part-stroke during cold shutdowns, and full-stroke during refueling outages;
- (e) if exercising is not practicable during plant operation or cold shutdowns, it may be limited to full-stroke during refueling outages;
- (f) valve exercising at cold shutdowns shall be performed as follows:
  - i) Testing shall commence no later than 48 hours after cold shutdown is reached, and continue until complete or the plant is ready to return to power.
  - ii) Completion of all valve testing is not a prerequisite to return to power.
  - iii) Any testing not completed during one cold shutdown will be performed during any subsequent cold shutdowns starting from the last test performed at the previous cold shutdown.
  - iv) For planned cold shutdowns, where ample time is available for testing all of the valves identified which require cold shutdown test frequency, all will be tested although testing may not begin within 48 hours.
- (g) All valves required to be tested during cold shutdowns and refueling outage shall be completed during refueling outage prior to returning the plant to operation.

3. Safety and Relief Valve Setpoint Verification:

Safety and relief valve setpoints shall be verified in accordance with a schedule that provides for all applicable relief valves to be tested at least once every 5 years for Class 1 valves and at least once every 10 years for Class 2 & 3 valves.

4. Rupture discs:

Rupture discs shall be replaced at least once every 5 years.

5. Explosively Actuated Valve Tests:

- (a) A record of the service life of each charge in each valve shall be maintained. This record shall include the date of manufacture, batch number, installation date, and the date when service life expires based on manufacturer's recommendations. In no case shall the service life exceed 10 years.
- (b) Concurrent with the first test and at least once every 2 years, the service life records of each valve shall be reviewed to verify that the service lives of the charges have not been exceeded and will not be exceeded before the next refueling. The Owner shall take appropriate actions to ensure charge service lives are not exceeded.
- (c) At least 20% of the charges in explosively actuated valves shall be fired and replaced at least once every 2 years. If a charge fails to fire, all charges with the same batch number shall be removed, discarded, and replaced with charges from a different batch.
- (d) Replacement charges shall be from batches from which a sample charge shall have been tested satisfactorily and with a service life such that the requirements of paragraph (b) above are met for subsequent inspection periods.

6. Valve Position Verification:

Valves with remote position indication shall be observed at least once every 2 years to verify that valve indication is accurately indicated.

7. Fail-Safe Valves:

Valves with fail-safe actuators shall be tested by observing the operation of the actuator upon loss of valve actuating power in accordance with the exercising frequency.

8. When systems are declared inoperable or not required to operate for extended periods, the exercising and stroke timing schedule need not be followed; however, within 3 months prior to returning the system to operable status, the valves shall be tested as applicable and the test frequency resumed.

C. Inservice Test Requirements

The following table identifies the types of tests required for each valve.

CATEGORY	VALVE FUNCTION	SEAT LEAKAGE TEST	EXERCISE TEST	SPECIAL TEST	POSITION INDICATION
A	Active	Yes	Yes	No	Yes <sup>(1)</sup>
A	Passive	Yes	No	No	Yes <sup>(1)</sup>
B	Active	No	Yes	No	Yes <sup>(1)</sup>
B	Passive	No	No	No	Yes <sup>(1)</sup>
C-Safety and relief Valves	Active	No	Yes	No	Yes <sup>(1)</sup>
C-Check Valves	Active	No	Yes	No	Yes <sup>(1)</sup>
D	Active	No	No	Yes	No

(1) If position indicated is provided.

#### D. Reference Values

1. Reference values shall be determined from preservice or inservice testing results. Reference values shall be established only when the valve is known to be operating acceptably.
2. When a valve or its control system has been replaced, repaired, or has undergone maintenance that could affect performance and prior to the time it is returned to service, it shall be tested to demonstrate that the affected performance parameters are within acceptable limits or a new reference value shall be determined. Deviations between the previous and new reference values shall be identified, analyzed, and documented.

#### E. Test Procedures

Test procedures utilized for inservice testing shall include the following requirements:

##### 1. Seat Leakage Tests

- a. Valve seat leakage tests of containment isolation valves will be in accordance with 10CFR50, Appendix J. Seat leakage tests for valves other than containment isolation valves shall be made with the pressure differential in the same direction as when the valve is performing its safety function with the following exceptions:
  - i) Globe valves may be tested with pressure under the seat.
  - ii) Butterfly valves may be tested in either direction if their seat construction is designed for sealing against pressure on either side.
  - iii) Double-disk gate valves may be tested by pressurizing between the disks.

- iv) Types of valves in which service pressure tends to diminish overall leakage channel opening, as by pressing the disk into or onto the seat with greater force may be tested at lower than service differential pressure. In such cases, the observed leakage ( $L_t$ ) shall be adjusted. This adjustment shall be made by utilizing the following formula:

$$L_f = L_t \sqrt{\frac{P_f}{P_t}}$$

$L_t$  = observed leakage

$L_f$  = functional leakage

$P_t$  = test pressure

$P_f$  = functional pressure

- v) Valves not qualifying for reduced pressure testing as described above shall be tested at full maximum functional pressure differential.
- b. Seat leakage shall be measured by one of the methods described in 4.2.2.3(c) of Part 10.
- c. Seat leakage rates shall be evaluated for acceptability by comparing the test results with the maximum permissible leakage rate.

## 2. Valve Exercising

- a. Valves shall be exercised to the position(s) required to fulfill their function(s).

- b. Valve disk movement shall be determined by observing an indicator that signals the required change of disk position, or observing indirect evidence (changes in system pressure, flow rate, level, or temperature) which reflect stem or disk position.
- c. Check valves which are normally open and are required to prevent reverse flow shall be tested in a manner that proves the disk travels to the seat promptly on the cessation or reversal of flow.
- d. Check valves which are normally shut and whose function is to open on reversal of pressure differential shall be tested by proving that the disk moves away from the seat when the closing pressure is removed and flow through the valve is initiated, or when a mechanical force is applied to the disk.

If a manual mechanical exerciser is used to move the disk, the force or torque required to initiate movement (breakaway) shall be measured and recorded. The breakaway force shall not vary by more than 50% from the established reference value.

- e. For check valves, as an alternative to the testing, disassembly every refueling outage to verify operability may be used.
- f. Valves with fail-safe actuators shall be tested by observing the operation of the actuator upon loss of actuator power.

### 3. Valve Stroke Timing

- a. Stroke time shall be that time interval from initiation of the actuating signal to the indication of the end of the operating stroke.

- b. The stroke time of valves shall be rounded up to the nearest second with the exception of the eight Main Steam Isolation Valves. For Main Steam Isolation Valves, stroke time values less than 3 seconds shall be rounded down to the nearest tenth second and values greater than 3 seconds shall be rounded up to the nearest tenth second.
- c. For all valves except those that are air operated and valves that stroke in less than 2 seconds (e.g. solenoid operated valves), the limiting value of full stroke time for valves shall be determined using the most conservative of the following values:
- 1) Design Specification
  - 2) Technical Specification
  - 3) USAR commitments
  - 4) For valves with full stroke time less than or equal to 10 seconds the Max.  
Allowable Stroke Time = Initial Base Line Time x 2
  - 5) For valves with full stroke times greater than 10 seconds the Max.  
Allowable Stroke Time = Initial Base Line Time x 1.5.
- d. For air operated valves, the limiting value shall be determined using the most conservative of the values:
- 1) Design Specifications
  - 2) Technical Specification
  - 3) USAR commitments
  - 4) For valves with full stroke time less than or equal to 5 seconds the Max.  
Allowable Stroke Time = 10 seconds (10 seconds was determined by review of all air operated valves with initial stroke times less than 5 seconds. These initial stroke times varied from 0.98 seconds to 4.93 seconds).
  - 5) For valves with full stroke times greater than 5 seconds and less than or

equal to 10 seconds the Max. Allowable Stroke Time = Initial Baseline Time x 2.

- 6) For valves with full stroke times greater than 10 seconds the Max. Allowable Stroke Time = Initial Baseline Time x 1.5.

e. For valves that stroke in less than 2 seconds (e.g. solenoid operated valves), the limiting values shall be 2 seconds.

f. Stroke Time Acceptance Criteria for Power Operated Valves:

Test results shall be compared to the initial reference values or reference values established in accordance with paragraphs 3.4 and 3.5 of Part 10.

1. Electric-motor-operated valves with reference stroke times greater than 10 sec shall exhibit no more than  $\pm 15\%$  change in stroke time when compared to the reference value.
2. Other power-operated valves with reference stroke times greater than 10 sec shall exhibit no more than  $\pm 25\%$  change in stroke time when compared to the reference value.
3. Electric-motor-operated valves with reference stroke times less than or equal to 10 sec shall exhibit no more than a  $\pm 25\%$  or  $\pm 1$  sec change in stroke time, whichever is greater, when compared to the reference value.
4. Other power-operated valves with reference stroke times less than or equal to 10 sec shall exhibit no more than  $\pm 50\%$  change in stroke time when compared to the reference value.

5. Valves that stroke in less than 2 seconds (e.g. solenoid operated valves) are exempt from this comparison.

4. Safety and Relief Valve Testing

Safety and relief valve set points shall be tested in accordance with OMa Part 1.

5. Position Indication Verification

Valves with remote position indicators shall be observed locally to verify that valve operation is accurately indicated. Where local observation is not possible, other indications shall be used for verification of valve operation.

- F. Analysis of Results/Corrective Action

1. Seat Leakage Tests

If the leakage rate exceeds the maximum permissible leakage rate the valve or combination of valves shall be declared inoperable and either repaired or replaced. A retest demonstrating acceptable operation shall be performed following any required action before the valve is returned to service.

2. Exercising and Stroke Time

- a. If a valve fails to exhibit the required change of stem or disk position or exceeds its specified limiting value of full stroke time, the valve shall be immediately declared inoperable.
- b. Valves with measured stroke times which do not meet the acceptance criteria of paragraph 3(f), but less than specified limiting values, shall be immediately retested or declared inoperable. If the valve is retested and the second test of data also does not meet the acceptance criteria, the data shall be analyzed within 96 hours to verify that the new stroke time represents

acceptable valve operation, or the valve shall be declared inoperable. If the second set of data meets the acceptance criteria, the cause of the initial deviation shall be analyzed and the results documented in the record of tests.

- c. If the breakaway force to move the disk of a check valve varies by more than 50% from the reference value, the valve shall be declared inoperable.
- d. Valves declared inoperable may be repaired, replaced, or the data analyzed to determine the cause of the deviation and the valve shown to be operating acceptably.
- e. Valve operability based upon analysis shall have the results of the analysis recorded in the record of tests.
- f. Prior to returning a repaired or replaced valve to service, a test demonstrating satisfactory operation shall be performed.
- g. When corrective action is required as a result of tests performed during cold shutdown periods, the condition must be corrected prior to starting the plant up.

### 3. Relief Valve Testing

A relief valve failing to function properly during testing shall be repaired or replaced. For each relief valve tested which fails to meet set pressure acceptance criteria, two additional valves of the same type and manufacturer shall be tested. If any of the additional valves tested also fail to meet set pressure acceptance criteria, all valves of the same type and manufacturer shall be tested.

4. Explosive Valve Testing

If a charge fails to fire, all charges with the same batch number shall be removed, discarded, and replaced with charges from a fresh batch from which a sample charge shall have been tested satisfactorily.

G. Inservice Test Records

1. Summary Listing

The Cognizant Plant Engineer shall maintain a log of the valves in this program and the current status of the program.

2. Preservice Tests

Preservice test results and manufacturers' functional test results shall be maintained in the IP Records Center.

3. Test Results

The test results records shall include the following:

- o Valve Identification Number
- o Date of Test
- o Reason for test (post maintenance, routine inservice test, establishing reference values)
- o Values of measured parameters
- o Identification of instruments used
- o Maximum limiting value of full-stroke time of each power operated valve
- o Comparison with allowable ranges of test values and analysis of deviations
- o Acceptance criteria
- o Dated signature of the individuals responsible for conducting and analyzing the test
- o Requirement for corrective action

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

SECOND TEN YEAR INTERVAL  
PUMP AND VALVE TESTING PROGRAM PLAN  
TABLE 1 -- PUMPS

EIN	EQUIPMENT NAME	CODE CLASS	P&ID-SHT; COORD. (M05-)	PUMP TYPE	TEST PARAMETERS (3)						FREQUENCY	RELIEF REQUEST
					S	Dp	P	Q	Vd	Vv		
OVC08PA	Control Room HVAC Chilled Water Pump A	3	1102-5 D-7	C	1	x				x	3 Month	N/A
OVC08PB	Control Room HVAC Chilled Water Pump B	3	1102-6 D-7	C	1	x				x	3 Month	N/A
1C41-C001A	Standby Liquid Control (SLC) Pump A	2	1077-1 C-5	P	1			x		x	3 Month	3202
1C41-C001B	Standby Liquid Control (SLC) Pump B	2	1077-1 E-5	P	1			x		x	3 Month	3202
1D001PA	Diesel Oil Transfer Pump A	3	1036-1 B-1	P	1			x		x	3 Month	3201
1D001PB	Diesel Oil Transfer Pump B	3	1036-1 B-5	P	1			x		x	3 Month	3201
1D001PC	Diesel Oil Transfer Pump C	3	1036-2 B-4	P	1			x		x	3 Month	3201
1E12-C002A	Residual Heat Removal (RHR) Pump A	2	1075-1 A-7	V	1	x				x	3 Month	N/A
1E12-C002B	Residual Heat Removal (RHR) Pump B	2	1075-2 B-4	V	1	x				x	3 Month	N/A
1E12-C002C	Residual Heat Removal (RHR) Pump C	2	1075-3 B-3	V	1	x				x	3 Month	N/A
1E12-C003	RHR Water Leg Pump	2	1075-3 C-3	C	1	x				x	3 Month	N/A
1E21-C001	Low Pressure Core Spray (LPCS) Pump	2	1073-1 E-7	V	1	x				x	3 Month	N/A
1E21-C002	LPCS and RHR Loop A Water Leg Pump	2	1073-1 B-7	C	1	x				x	3 Month	N/A
1E22-C001	High Pressure Core Spray (HPCS) Pump	2	1074-1 B-3	V	1	x				x	3 Month	N/A
1E22-C003	HPCS Water Leg Pump	2	1074-1 C-5	C	1	x				x	3 Month	N/A
1E51-C001	Reactor Core Isolation Cooling (RCIC) Pump	2	1079-2 E-1	C	2	x				x	3 Month	N/A
1E51-C003	RCIC Water Leg Pump	2	1079-2 B-5	C	1	x				x	3 Month	N/A
1FC02PA	Fuel Pool Cooling and Clean-Up Pump A	3	1037-3 E-7	C	1	x				x	3 Month	N/A
1FC02PB	Fuel Pool Cooling and Clean-Up Pump B	3	1037-3 B-7	C	1	x				x	3 Month	N/A
1SX01PA	Shutdown Service Water Pump A	3	1052-1 D-7	V	1	x				x	3 Month	N/A
1SX01PB	Shutdown Service Water Pump B	3	1052-2 D-7	V	1	x				x	3 Month	N/A
1SX01PC	Shutdown Service Water Pump C	3	1052-3 D-7	V	1	x				x	3 Month	N/A

Note : Pump Type "P" = Positive Displacement; "C" = Centrifugal; "V" = Vertical Line Shaft.  
(1) Coupled to constant speed driver, (2) Coupled to variable speed driver  
(3) Currently CPS is planning to monitor the test parameters as identified for each pump.

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 1

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
OMC009	G	4	2	A	MO	O	C	M05-1042/4;E-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
OMC010	G	4	2	A	MO	O	C	M05-1042/4;D-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
ORA026	CV	1	2	A	AO	C	C	M05-1065/7;D-8	Leak Rate Position Indication	App J 2 Year**		
ORA027	CV	1	2	A	AO	C	C	M05-1065/7;D-7	Leak Rate Position Indication	App J 2 Year**		
ORA028	CV	1	2	B	AO	C	C	M05-1065/7;D-6	Position Indication	2 Year		
ORA029	CV	1	2	B	AO	C	C	M05-1065/7;D-5	Position Indication	2 Year		
OVC010A	CV	2	3	B	AO	O	O	M05-1102/5;A-7	Stroke Time (Exercise, Loss of Power)	3 Month		
OVC010B	CV	2	3	B	AO	O	O	M05-1102/6;A-7	Stroke Time (Exercise, Loss of Power)	3 Month		
OVC016A	GL	2	3	B	M	C	O	M05-1102	Exercise (Open, Manual)	3 Month		
OVC016B	GL	2	3	B	SC			M05-1102	Exercise (Open, Manual)	3 month		
OVC017A	C	2	3	C		C	O	M05-1102/5;F-7	Exercise	3 Month		
OVC017B	C	2	3	C		C	O	M05-1102/6;F-7	Exercise	3 Month		
OVC020A	C	2	3	C		C	C	M05-1102/5;F-7	Exercise	3 Month		
OVC020B	C	2	3	C		C	C	M05-1102/6;F-7	Exercise	3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 2

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
OVC022A	CV	1.5	3	B	AO	C	O	M05-1102/5;F-7	Stroke Time (Exercise, Loss of Power)	3 Month		
OVC022B	CV	1.5	3	B	AO	C	O	M05-1102/6;F-7	Stroke Time (Exercise, Loss of Power)	3 Month		
OVC025A	R	1x1.5	3	C		C	O	M05-1102/5;E-6	Bench	10 Year		
OVC025B	R	1x1.5	3	C		C	O	M05-1102/6;E-6	Bench	10 Year		
1B21-F001	GL	2	1	A-P*	MO	C	C	M05-1071/2;D-4	Leak Rate Position Indication	2 Year 2 Year		
1B21-F002	GL	2	1	A-P*	MO	C	C	M05-1071/2;E-4	Leak Rate Position Indication	2 Year 2 Year		
1B21-F010A	NC	18	1	A/C		O	C,O	M05-1004;C-7	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Cold Shutdown Refueling App J		CSJ-110 RFJ-003
1B21-F010B	NC	18	1	A/C		O	C,O	M05-1004;A-7	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Cold Shutdown Refueling App J		CSJ-110 RFJ-003
1B21-F016	G	3	1	A	MO	O	C	M05-1002/1;B-1	Position Indication Stroke Time (Exercise) Leak Rate	2 Year** 3 Month App J		
1B21-F019	G	3	1	A	MO	O	C	M05-1002/1;B-1	Position Indication Stroke Time (Exercise) Leak Rate	2 Year** 3 Month App J		
1B21-F022A	GL	24	1	A	AO	O	C	M05-1002/1;C-2	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 3

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F022B	GL	24	1	A	AO	0	C	M05-1002/1;F-2	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F022C	GL	24	1	A	AO	0	C	M05-1002/1;A-2	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F022D	GL	24	1	A	AO	0	C	M05-1002/1;D-2	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F024A	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F024B	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F024C	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F024D	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F028A	GL	24	1	A	AO	0	C	M05-1002/2;C-5	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F028B	GL	24	1	A	AO	0	C	M05-1002/2;F-5	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 4

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F028C	GL	24	1	A	AO	0	C	M05-1002/2;B-5	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F028D	GL	24	1	A	AO	0	C	M05-1002/2;E-5	Leak Rate Partial Exercise Position Indication Stroke Time (Exercise, Loss of Power)	App J 3 Month 2 Year** Cold Shutdown		CSJ-101
1B21-F029A	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F029B	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F029C	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F029D	C	0.5	3	C		0	C	M10-9002/5	Exercise	Refueling		RFJ-006
1B21-F032A	NC	20	1	A/C	AO	0	C,0	M05-1004;C-6	Exercise (Open) Leak Rate(Exer Closed, Loss of Power) Leak Rate	Cold Shutdown Refueling App. J		CSJ-110 RFJ-003
1B21-F032B	NC	20	1	A/C	AO	0	C,0	M05-1004;A-6	Exercise (Open) Leak Rate(Exer Closed, Loss of Power) Leak Rate	Cold Shutdown Refueling App. J		CSJ-110 RFJ-003
1B21-F036A	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036F	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036G	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036J	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036L	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036M	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 5

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F036N	C	0.5	3	A/C		C	C	M10-9002/2	Leak Rate (Exercise Closed)	Refueling		RFJ-007
1B21-F036P	C	0.5	3	A/C		C	O,C	M10-9002/2	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007
1B21-F036R	C	0.5	3	A/C		C	O,C	M10-9002/2	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007
1B21-F037A	VR	10	3	C		C	O,C	M05-1002/1;C-6	Exercise (Set Point)	10 Year		
1B21-F037B	VR	10	3	C		C	O,C	M05-1002/1;E-6	Exercise (Set Point)	10 Year		
1B21-F037C	VR	10	3	C		C	O,C	M05-1002/1;A-7	Exercise (Set Point)	10 Year		
1B21-F037D	VR	10	3	C		C	O,C	M05-1002/1;D-7	Exercise (Set Point)	10 Year		
1B21-F037E	VR	10	3	C		C	O,C	M05-1002/1;E-4	Exercise (Set Point)	10 Year		
1B21-F037F	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise (Set Point)	10 Year		
1B21-F037G	VR	10	3	C		C	O,C	M05-1002/1;A-4	Exercise (Set Point)	10 Year		
1B21-F037H	VR	10	3	C		C	O,C	M05-1002/1;C-5	Exercise (Set Point)	10 Year		
1B21-F037J	VR	10	3	C		C	O,C	M05-1002/1;E-7	Exercise (Set Point)	10 Year		
1B21-F037K	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise (Set Point)	10 Year		
1B21-F037L	VR	10	3	C		C	O,C	M05-1002/1;D-6	Exercise (Set Point)	10 Year		
1B21-F037M	VR	10	3	C		C	O,C	M05-1002/1;E-3	Exercise (Set Point)	10 Year		
1B21-F037N	VR	10	3	C		C	O,C	M05-1002/1;E-5	Exercise (Set Point)	10 Year		
1B21-F037P	VR	10	3	C		C	O,C	M05-1002/1;A-6	Exercise (Set Point)	10 Year		
1B21-F037R	VR	10	3	C		C	O,C	M05-1002/1;D-5	Exercise (Set Point)	10 Year		
1B21-F037S	VR	10	3	C		C	O,C	M05-1002/1;A-3	Exercise (Set Point)	10 Year		
1B21-F039B	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 6

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F039C	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F039D	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F039E	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F039H	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F039K	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F039S	C	0.5	3	A/C		C	O,C	M10-9002/1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling		RFJ-007 RFJ-007
1B21-F041A	SR	8x10	1	C	AO	C	O	M05-1002/1;C-6	Bench Position Indication	5 Year 2 Year		
1B21-F041B	SR	8x10	1	B/C	AO	C	O	M05-1002/1;F-7	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004
1B21-F041C	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-8	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004
1B21-F041D	SR	8x10	1	B/C	AO	C	O	M05-1002/1;D-8	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004
1B21-F041F	SR	8x10	1	B/C	AO	C	O	M05-1002/1;F-5	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 7

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F041G	SR	8x10	1	C	AO	C	O	M05-1002/1;B-6	Bench Position Indication	5 Year 2 Year		
1B21-F041L	SR	8x10	1	C	AO	C	O	M05-1002/1;B-4	Bench Position Indication	5 Year 2 Year		
1B21-F047A	SR	8x10	1	B/C	AO	C	O	M05-1002/1;C-6	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004
1B21-F047B	SR	8x10	1	C	AO	C	O	M05-1002/1;F-8	Bench Position Indication	5 Year 2 Year		
1B21-F047C	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-5	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004
1B21-F047D	SR	8x10	1	C	AO	C	O	M05-1002/1;D-7	Bench Position Indication	5 Year 2 Year		
1B21-F047F	SR	8x10	1	C	AO	C	O	M05-1002/1;F-4	Bench Position Indication	5 Year 2 Year		
1B21-F051B	SR	8x10	1	C	AO	C	O	M05-1002/1;F-6	Bench Position Indication	5 Year 2 Year		
1B21-F051C	SR	8x10	1	C	AO	C	O	M05-1002/1;B-7	Bench Position Indication	5 Year 2 Year		
1B21-F051D	SR	8x10	1	C	AO	C	O	M05-1002/1;D-6	Bench Position Indication	5 Year 2 Year		
1B21-F051G	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-4	Bench Position Indication Stroke Time (Exercise, Loss of Power)	5 Year 2 Year Refueling		RFJ-004

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 8

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F065A	G	20	2	A	MO	O	C	M05-1004;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-102
1B21-F065B	G	20	2	A	MO	O	C	M05-1004;A-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-102
1B21-F067A	GL	1.5	1	A	MO	O	C	M05-1002/2;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1B21-F067B	GL	1.5	1	A	MO	O	C	M05-1002/2;E-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1B21-F067C	GL	1.5	1	A	MO	O	C	M05-1002/2;A-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1B21-F067D	GL	1.5	1	A	MO	O	C	M05-1002/2;D-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1B21-F078A	VR	10	3	C		C	O,C	M05-1002/1;C-6	Exercise (Set Point)	10 Year		
1B21-F078B	VR	10	3	C		C	O,C	M05-1002/1;E-6	Exercise (Set Point)	10 Year		
1B21-F078C	VR	10	3	C		C	O,C	M05-1002/1;A-7	Exercise (Set Point)	10 Year		
1B21-F078D	VR	10	3	C		C	O,C	M05-1002/1;D-7	Exercise (Set Point)	10 Year		
1B21-F078E	VR	10	3	C		C	O,C	M05-1002/1;E-4	Exercise (Set Point)	10 Year		
1B21-F078F	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise (Set Point)	10 Year		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 9

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F078G	VR	10	3	C		C	O,C	M05-1002/1;A-4	Exercise (Set Point)	10 Year		
1B21-F078H	VR	10	3	C		C	O,C	M05-1002/1;C-5	Exercise (Set Point)	10 Year		
1B21-F078J	VR	10	3	C		C	O,C	M05-1002/1;E-7	Exercise (Set Point)	10 Year		
1B21-F078K	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise (Set Point)	10 Year		
1B21-F078L	VR	10	3	C		C	O,C	M05-1002/1;D-6	Exercise (Set Point)	10 Year		
1B21-F078M	VR	10	3	C		C	O,C	M05-1002/1;E-3	Exercise (Set Point)	10 Year		
1B21-F078N	VR	10	3	C		C	O,C	M05-1002/1;E-5	Exercise (Set Point)	10 Year		
1B21-F078P	VR	10	3	C		C	O,C	M05-1002/1;A-6	Exercise (Set Point)	10 Year		
1B21-F078R	VR	10	3	C		C	O,C	M05-1002/1;D-5	Exercise (Set Point)	10 Year		
1B21-F078S	VR	10	3	C		C	O,C	M05-1002/1;A-3	Exercise (Set Point)	10 Year		
1B21-F098A	G	24	2	B	MO	O	C	M05-1002/2;C-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-119
1B21-F098B	G	24	2	B	MO	O	C	M05-1002/2;F-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-119
1B21-F098C	G	24	2	B	MO	O	C	M05-1002/2;B-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-119
1B21-F098D	G	24	2	B	MO	O	C	M05-1002/2;E-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-119
1B21-F379A	VR	2	3	C		C	O,C	M05-1002/1;F-7	Exercise (Set Point)	10 Year		
1B21-F379B	VR	2	3	C		C	O,C	M05-1002/1;F-6	Exercise (Set Point)	10 Year		
1B21-F379C	VR	2	3	C		C	O,C	M05-1002/1;F-5	Exercise (Set Point)	10 Year		
1B21-F379D	VR	2	3	C		C	O,C	M05-1002/1;F-4	Exercise (Set Point)	10 Year		
1B21-F379E	VR	2	3	C		C	O,C	M05-1002/1;F-3	Exercise (Set Point)	10 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE 11--VALVES  
Page 10

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F379F	VR	2	3	C		C	O,C	M05-1002/1;E-7	Exercise (Set Point)	10 Year		
1B21-F379G	VR	2	3	C		C	O,C	M05-1002/1;E-6	Exercise (Set Point)	10 Year		
1B21-F379H	VR	2	3	C		C	O,C	M05-1002/1;E-5	Exercise (Set Point)	10 Year		
1B21-F379J	VR	2	3	C		C	O,C	M05-1002/1;C-6	Exercise (Set Point)	10 Year		
1B21-F379K	VR	2	3	C		C	O,C	M05-1002/1;C-5	Exercise (Set Point)	10 Year		
1B21-F379L	VR	2	3	C		C	O,C	M05-1002/1;B-7	Exercise (Set Point)	10 Year		
1B21-F379M	VR	2	3	C		C	O,C	M05-1002/1;B-6	Exercise (Set Point)	10 Year		
1B21-F379N	VR	2	3	C		C	O,C	M05-1002/1;B-5	Exercise (Set Point)	10 Year		
1B21-F379P	VR	2	3	C		C	O,C	M05-1002/1;B-5	Exercise (Set Point)	10 Year		
1B21-F379Q	VR	2	3	C		C	O,C	M05-1002/1;B-4	Exercise (Set Point)	10 Year		
1B21-F379R	VR	2	3	C		C	O,C	M05-1002/1;B-3	Exercise (Set Point)	10 Year		
1B21-F433A	C	0.5	3	C		O	C	M10-9004/8	Exercise	Refueling		RFJ-008
1B21-F433B	C	0.5	3	C		O	C	M10-9004/8	Exercise	Refueling		RFJ-008
1B33-F019	CV	0.75	2	B	AO	O	C	M05-1072/1;E-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1B33-F020	CV	0.75	2	B	AO	O	C	M05-1072/1;E-8	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1C11-114 +	C	0.75	0	C		C	O	M05-1078/2;E-3	Exercise	10%/120 days		RFJ-018
1C11-115 +	C	0.5	0	A/C		O	C	M05-1078/2;E-6	Leak Rate (Exercise)	Refueling		RFJ-018
1C11-126 +	DIA	1	0	B	AO	C	O	M05-1078/2;E-5	Stroke Time (Exercise, Loss of Power)	10%/120 days		RFJ-018
1C11-127 +	DIA	0.75	0	B	AO	C	O	M05-1078/2;F-4	Stroke Time (Exercise, Loss of Power)	10%/120 days		RFJ-018
1C11-138 +	C	0.5	0	C		O	C	M05-1078/2;E-5	Exercise	10%/120 days		RFJ-018
1C11-139 +	DIA	0.75	0	B	SO	C	O	M05-1078/2;F-3	Stroke Time (Exercise, Loss of Power)	10%/120 days		RFJ-018

+ Typical (145 of each)

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 11

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1C11-F010	GL	1	2	B	AO	0	C	M05-1078/3;F-7	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1C11-F011	GL	2	2	B	AO	0	C	M05-1078/3;B-8	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1C11-F083	GL	2	2	A	MO	0	C	M05-1078/1;E-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-103
1C11-F122	C	2	2	A/C		0	C	M05-1078/1;C-7	Leak Rate (Exercise Closed)	Refueling		RFJ-009
1C11-F180	GL	1	2	B	AO	0	C	M05-1078/3;F-7	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1C11-F181	GL	2	2	B	AO	0	C	M05-1078/3;B-8	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1C11-F376A	C	0.25	0	A/C		0	C	M05-1078/1;C-6	Leak Rate Exercise (Closed)	2 Year Refueling		RFJ-010
1C11-F376B	C	0.25	0	A/C		0	C	M05-1078/1;B-6	Leak Rate Exercise (Closed)	2 Year Refueling		RFJ-010
1C11-F377A	C	0.25	0	A/C		0	C	M05-1078/1;C-6	Leak Rate Exercise (Closed)	2 Year Refueling		RFJ-010
1C11-F377B	C	0.25	0	A/C		0	C	M05-1078/1;B-6	Leak Rate Exercise (Closed)	2 Year Refueling		RFJ-010
1C41-F001A	GL	3	2	B	MO	C	O	M05-1077;C-6	Position Indication Position Indication (Alt. Procedure) Stroke Time (Exercise) Stroke Time (Exercise) Alt. Procedure	2 Year 2 Year 3 Month Refuel		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 12

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1C41-F001B	GL	3	2	B	MO	C	O	M05-1077;E-6	Position Indication Position Indication (Alt. Procedure) Stroke Time (Exercise) Stroke Time (Exercise) Alt. Procedure	2 Year 2 Year 3 Month Refuel		
1C41-F004A	EX	1.5	1	D		C	O	M05-1077;C-3	Explosive	Alt Refueling		
1C41-F004B	EX	1.5	1	D		C	O	M05-1077;D-3	Explosive	Alt Refueling		
1C41-F006	NC	3	1	C		C	O,C	M05-1077;D-2	Exercise (Closed) Exercise (Open)	Refueling Refueling		RFJ-020 RFJ-020
1C41-F029A	R	1.5x2	2	C		C	O	M05-1077;C-4	Bench	10 Year		
1C41-F029B	R	1.5x2	2	C		C	O	M05-1077;E-4	Bench	10 Year		
1C41-F033A	NC	1.5	2	C		C	O,C	M05-1077;C-4	Exercise (Closed) Exercise (Open) Alternate Exercise (Open)	Refueling 3 Month Refueling		RFJ-011
1C41-F033B	NC	1.5	2	C		C	O,C	M05-1077;D-4	Exercise (Closed) Exercise (Open) Alternate Exercise (Open)	Refueling 3 Month Refueling		RFJ-011
1C41-F336	C	4	1	C		C	O,C	M05-1077;E-1	Exercise (Closed) Exercise (Open)	Refueling Refueling		RFJ-012 RFJ-012
1CC049	G	10	2	A	MO	O	C	M05-1032/3;C-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104
1CC050	G	6	2	A	MO	O	C	M05-1032/3;C-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 13

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CC053	G	6	2	A	MO	O	C	M05-1032/3;C-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104
1CC054	G	10	2	A	MO	O	C	M05-1032/3;C-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104
1CC057	G	8	2	B	MO	O	C	M05-1032/3;D-8	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-104
1CC060	G	8	2	A	MO	O	C	M05-1032/3;C-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104
1CC071	G	4	2	A-P*	M	C	C	M05-1032/3;E-2	Leak Rate	App J		
1CC072	G	4	2	A-P*	M	C	C	M05-1032/3;E-1	Leak Rate	App J		
1CC073	G	4	2	A-P*	M	C	C	M05-1032/3;F-1	Leak Rate	App J		
1CC074	G	4	2	A-P*	M	C	C	M05-1032/3;F-2	Leak Rate	App J		
1CC075A	B	14	3	A	MO	O	C	M05-1032/2;E-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 14

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CC075B	B	14	3	A	MO	O	C	M05-1032/2;C-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1CC076A	B	14	3	A	MO	O	C	M05-1032/2;D-2	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1CC076B	B	14	3	A	MO	O	C	M05-1032/2;C-2	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1CC127	G	8	2	A	MO	O	C	M05-1032/3;D-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-104
1CC128	G	8	2	B	MO	O	C	M05-1032/3;C-2	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-104
1CC185A	R	0.75x1	3	C		C	O	M05-1046/1;F-1	Bench	10 Year		
1CC185B	R	0.75x1	3	C		C	O	M05-1046/1;F-3	Bench	10 Year		
1CC280A	R	0.75x1	3	C		C	O	M05-1032/6;E-4	Bench	10 Year		
1CC280B	R	0.75x1	3	C		C	O	M05-1032/6;C-4	Bench	10 Year		
1CM002A	EFC	0.75	2	A/C		O	O,C	M05-1034/1;B-7	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013
1CM002B	EFC	0.75	2	A/C		O	O,C	M05-1034/1;A-7	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 15

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CM003A	EFC	0.75	2	A/C		0	0,C	M05-1034/1;B-4	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013
1CM003B	EFC	0.75	2	A/C		0	C	M05-1034/1;B-7	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1CM011	G	0.75	2	A	SO	0	C	M05-1034/2;C-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM012	G	0.75	2	A	SO	0	C	M05-1034/2;C-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM022	G	0.75	2	A	SO	C	C	M05-1034/2;D-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM023	G	0.75	2	A	SO	C	C	M05-1034/2;D-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM025	G	0.75	2	A	SO	C	C	M05-1034/2;C-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM026	G	0.75	2	A	SO	C	C	M05-1034/2;C-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 16

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CM047	G	0.75	2	A	SO	0	C	M05-1034/2;D-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM048	G	0.75	2	A	SO	0	C	M05-1034/2;D-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1CM051	EFC	0.75	2	A/C		0	C	M05-1034/3;C-6	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1CM053	EFC	0.75	2	A/C		0	C	M05-1034/3;C-5	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1CM066	EFC	0.75	2	A/C		0	C	M05-1071/1;F-3	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1CM067	EFC	0.75	2	A/C		0	C	M05-1071/2;E-6	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1CY016	G	6	2	A	MO	0	C	M05-1012/6;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1CY017	G	6	2	A	MO	0	C	M05-1012/6;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 17

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1DG006A	R	0.75x1	0	C		C	O	M05-1035/1;E-7	Bench	10 Year		
1DG006B	R	0.75x1	0	C		C	O	M05-1035/1;D-7	Bench	10 Year		
1DG006C	R	0.75x1	0	C		C	O	M05-1035/2;E-7	Bench	10 Year		
1DG006D	R	0.75x1	0	C		C	O	M05-1035/2;D-7	Bench	10 Year		
1DG006E	R	0.75x1	0	C		C	O	M05-1035/3;E-7	Bench	10 Year		
1DG006F	R	0.75x1	0	C		C	O	M05-1035/3;D-7	Bench	10 Year		
1DG008A	DIA	2	0	B	SO	C	O	M05-1035/1;E-3	Stroke Time (Exercise)	3 Month		
1DG008B	DIA	2	0	B	SO	C	O	M05-1035/1;C-3	Stroke Time (Exercise)	3 Month		
1DG008C	DIA	2	0	B	SO	C	O	M05-1035/1;F-3	Stroke Time (Exercise)	3 Month		
1DG008D	DIA	2	0	B	SO	C	O	M05-1035/1;B-3	Stroke Time (Exercise)	3 Month		
1DG008E	DIA	2	0	B	SO	C	O	M05-1035/2;E-3	Stroke Time (Exercise)	3 Month		
1DG008F	DIA	2	0	B	SO	C	O	M05-1035/2;C-3	Stroke Time (Exercise)	3 Month		
1DG008G	DIA	2	0	B	SO	C	O	M05-1035/2;F-3	Stroke Time (Exercise)	3 Month		
1DG008H	DIA	2	0	B	SO	C	O	M05-1035/2;B-3	Stroke Time (Exercise)	3 Month		
1DG008J	DIA	2	0	B	SO	C	O	M05-1035/3;E-3	Stroke Time (Exercise)	3 Month		
1DG008K	DIA	2	0	B	SO	C	O	M05-1035/3;D-3	Stroke Time (Exercise)	3 Month		
1DG168	C	1.25	0	A/C		C	C	M05-1035/1;E-7	Leak Rate (Exercise)	3 Month		
1DG169	C	1.25	0	A/C		C	C	M05-1035/1;C-7	Leak Rate (Exercise)	3 Month		
1DG170	C	1.25	0	A/C		C	C	M05-1035/2;E-7	Leak Rate (Exercise)	3 Month		
1DG171	C	1.25	0	A/C		C	C	M05-1035/2;C-7	Leak Rate (Exercise)	3 Month		
1DG172	C	1.25	0	A/C		C	C	M05-1035/3;E-7	Leak Rate (Exercise)	3 Month		
1DG173	C	1.25	0	A/C		C	C	M05-1035/3;C-7	Leak Rate (Exercise)	3 Month		
1D0001A	C	1.5	3	C		C	O	M05-1036/1;B-1	Exercise	3 Month		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 18

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1D0001B	C	1.5	3	C		C	O	M05-1036/1;B-5	Exercise	3 Month		
1D0001C	C	1.5	3	C		C	O	M05-1036/2;B-3	Exercise	3 Month		
1D0005A	R	0.75x1	3	C		C	O	M05-1036/1;C-1	Bench	10 Year		
1D0005B	R	0.75x1	3	C		C	O	M05-1036/1;C-5	Bench	10 Year		
1D0005C	R	0.75x1	3	C		C	O	M05-1036/2;C-3	Bench	10 Year		
1E12-F003A	GL	14	2	B	MO	O	O	M05-1075/4;C-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F003B	GL	14	2	B	MO	O	O	M05-1075/4;C-7	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F004A	G	20	2	A	MO	O	O,C	M05-1075/1;A-4	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F004B	G	20	2	A	MO	O	O,C	M05-1075/2;A-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F005	R	1.5x2	2	A/C		C	O,C	M05-1075/1;B-5	Bench Leak Rate	10 Year App J		
1E12-F006A	G	16	2	B	MO	C	C	M05-1075/1;A-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F006B	G	16	2	B	MO	C	C	M05-1075/2;A-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F008	G	18	1	A	MO	C	C	M05-1075/1;B-4	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 19

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F009	G	18	1	A	MO	C	C	M05-1075/1;B-2	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F011A	GL	4	2	A-P*		C	C	M05-1075/4;D-4	Leak Rate	App J		
1E12-F011B	GL	4	2	A-P*		C	C	M05-1075/2;C-3	Leak Rate	App J		
1E12-F014A	G	18	3	B	MO	C	O	M05-1052/1;D-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F014B	G	18	3	B	MO	C	O	M05-1052/2;D-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F017A	R	1.5x2	2	A/C		C	O,C	M05-1075/1;B-6	Bench Leak Rate	10 Year App J		
1E12-F017B	R	1.5x2	2	A/C		C	O,C	M05-1075/2;B-6	Bench Leak Rate	10 Year App J		
1E12-F019	C	4	1	C		C	O	M05-1075/2;C-5	Exercise	Cold Shutdown		CSJ-111
1E12-F021	GL	14	2	A	MO	C	C	M05-1075/3;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F023	GL	4	1	A	MO	C	O,C	M05-1075/2;C-5	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F024A	G	14	2	A	MO	C	O,C	M05-1075/1;C-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 20

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F024B	G	14	2	A	MO	C	O,C	M05-1075/2;C-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F025A	R	1x1.5	2	A/C		C	O,C	M05-1075/1;D-4	Bench Leak Rate	10 Year App J		
1E12-F025B	R	1x1.5	2	A/C		C	O,C	M05-1075/2;E-5	Bench Leak Rate	10 Year App J		
1E12-F025C	R	1x1.5	2	A/C		C	O,C	M05-1075/3;F-3	Bench Leak Rate	10 Year App J		
1E12-F027A	G	12	2	A	MO	O	O,C	M05-1075/1;D-4	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F027B	G	12	2	A	MO	O	O,C	M05-1075/2;D-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F028A	G	10	2	A	MO	C	O,C	M05-1075/1;F-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F028B	G	10	2	A	MO	C	O,C	M05-1075/2;F-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F030	R	1x1.5	2	A-P*		C	C	M05-1075/2;B-3	Leak Rate	App J		
1E12-F031A	NC	14	2	C		C	O,C	M05-1075/1;B-8	Exercise (Closed) Exercise (Open)	3 Month 3 Month		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 21

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F031B	NC	14	2	C		C	O,C	M05-1075/2;B-1	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1E12-F031C	NC	14	2	C		C	O,C	M05-1075/3;D-1	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1E12-F036	R	4x6	2	A/C		C	O,C	M05-1075/4;E-5	Bench Leak Rate	10 Year App J		
1E12-F037A	GL	10	2	A	MO	C	C	M05-1075/1;F-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F037B	GL	10	2	A	MO	C	C	M05-1075/2;F-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F040	GL	3	2	B	MO	C	C	M05-1075/2;E-1	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F041A	NC	12	1	A/C		C	O,C	M05-1075/1;D-2	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Refueling Refueling 2 Year		RFJ-005 RFJ-005
1E12-F041B	NC	12	1	A/C		C	O,C	M05-1075/2;D-7	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Refueling Refueling 2 Year		RFJ-005 RFJ-005
1E12-F041C	NC	12	1	A/C		C	O,C	M05-1075/3;E-7	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Refueling Refueling 2 Year		RFJ-005 RFJ-005
1E12-F042A	G	12	1	A	MO	C	O,C	M05-1075/1;D-3	Leak Rate Leak Rate Position Indication	2 Year App J 2 Year**		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 22

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
									Stroke Time (Exercise)	Cold Shutdown		CSJ-105
1E12-F042B	G	12	1	A	MO	C	O,C	M05-1075/2;D-6	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F042C	G	12	1	A	MO	C	O,C	M05-1075/3;E-5	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F046A	C	4	2	C		O	O	M05-1075/1;B-7	Exercise	3 Month		
1E12-F046B	C	4	2	C		O	O	M05-1075/2;B-2	Exercise	3 Month		
1E12-F046C	C	4	2	C		O	O	M05-1075/3;B-2	Exercise	3 Month		
1E12-F047A	G	14	2	B	MO	O	O	M05-1075/4;C-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F047B	G	14	2	B	MO	O	O	M05-1075/4;C-8	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F048A	GL	14	2	B	MO	O	O,C	M05-1075/1;C-8	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F048B	GL	14	2	B	MO	O	O,C	M05-1075/2;C-1	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F049	G	3	2	A	MO	C	C	M05-1075/2;E-1	Leak Rate Position Indication Stroke Time (Exercise)	2 Year 2 Year 3 Month		
1E12-F050A	NC	10	2	A/C		C	O,C	M05-1075/1;D-5	Exercise (Closed) Exercise (Open) Leak Rate (Alternate Exercise Closed)	Cold Shutdown Cold Shutdown Refueling		CSJ-105 CSJ-105 CSJ-105

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE 11--VALVES

Page 23

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
									Leak Rate	2 Year		
1E12-F050B	NC	10	2	A/C		C	O,C	M05-1075/2;E-5	Exercise (Closed) Exercise (Open) Leak Rate (Alternate Exercise Closed) Leak Rate	Cold Shutdown Cold Shutdown Refueling 2 Year		CSJ-105 CSJ-105 CSJ-105
1E12-F051A	G	6	2	A-P*	AO	C	C	M05-1075/4;F-2	Leak Rate	2 Year		
1E12-F051B	G	6	2	A-P*	AO	C	C	M05-1075/4;F-6	Leak Rate	2 Year		
1E12-F053A	GL	10	2	A	MO	C	O,C	M05-1075/1;D-6	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F053B	GL	10	2	A	MO	C	O,C	M05-1075/2;E-4	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E12-F055A	R	8x12	2	A/C		C	O,C	M05-1075/4;C-2	Bench Leak Rate	10 Year App J		
1E12-F055B	R	8x12	2	A/C		C	O,C	M05-1075/4;C-7	Bench Leak Rate	10 Year App J		
1E12-F060A	G	0.75	2	B	SO	C	C	M05-1075/4;B-4	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E12-F060B	G	0.75	2	B	SO	C	C	M05-1075/4;B-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E12-F064A	G	4	2	A	MO	O	O,C	M05-1075/1;B-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 24

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F064B	G	4	2	A	MO	O	O,C	M05-1075/2;B-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F064C	G	4	2	A	MO	O	O,C	M05-1075/3;B-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F068A	G	18	3	B	MO	C	O	M05-1052/1;C-1	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F068B	G	18	3	B	MO	C	O	M05-1052/2;C-1	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F075A	G	0.75	2	B	SO	C	C	M05-1075/4;B-4	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E12-F075B	G	0.75	2	B	SO	C	C	M05-1075/4;B-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E12-F084A	C	2.5	2	C		O	O	M05-1075/1;B-7	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E12-F084B	C	2.5	2	C		O	O	M05-1075/2;B-2	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E12-F084C	C	2.5	2	C		O	O	M05-1075/3;E-2	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E12-F085A	GSC	2	2	C		O	O,C	M05-1075/1;B-8	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E12-F085B	GSC	2	2	C		O	O,C	M05-1075/2;B-1	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		

\*\* Tech. Specs. require testing every 18 months

\*\*\* These Valves tested together as a unit

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 25

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F085C	GSC	2	2	C		O	O,C	M05-1075/3;E-1	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E12-F087A	G	6	2	A-P*		C	C	M05-1075/4;E-3	Leak Rate	2 Year		
1E12-F087B	G	6	2	A-P*		C	C	M05-1075/4;E-7	Leak Rate	2 Year		
1E12-F094	G	4	3	A	MO	C	O,C	M05-1075/4;E-7	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1E12-F096	G	4	2	B	MO	C	C	M05-1075/4;E-7	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E12-F098	C	4	2	C		C	O	M05-1075/4;D-7	Exercise	3 Month		
1E12-F101	R	1x1.5	2	A/C		C	O,C	M05-1075/3;C-5	Bench Leak Rate	10 Year App J		
1E12-F105	G	20	2	A	MO	O	O,C	M05-1075/3;B-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E12-F475	C	1	2	A/C		C	O,C	M05-1075/1;B-2	Exercise (Open) Leak Rate (Exercise Closed)	Refueling App J		RFJ-014 RFJ-014
1E12-F495A	C	2	2	A/C		C	O,C	M05-1075/2	Exercise (Open) Exercise (Closed) Leak Rate (Exercise Closed)	Refuel Refuel 2 Year		RFJ-024 RFJ-024
1E12-F495B	C	2	2	A/C		C	O,C	M05-1075	Exercise (Open) Exercise (Closed) Leak Rate (Exercise Closed)	Refuel Refuel 2 Year		RFJ-024 RFJ-024
1E12-F496	GL	2	2	A	MO	C	O,C	M05-1075/2	Stroke Time (Exercise) Position Indication Leak Rate	Cold Shutdown 2 Year** App J		CSJ-118

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

\*\*\* These Valves tested together as a unit

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 26

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
									Leak Rate	2 Year		
1E12-F497	GL	2	2	A	MO	C	O,C	M05-1075/1	Stroke Time (Exercise) Position Indication Leak Rate Leak Rate	Cold Shutdown 2 Year** App J 2 year		CSJ-118
1E12-F499A	C	2	2	A/C		C	O,C	M05-1075	Exercise (Open) Exercise (Closed) Leak Rate (Exercise Closed)	Refuel Refuel 2 year		RFJ-024 RFJ-024
1E12-F499B	C	2	2	A/C		C	O,C	M05-1075	Exercise (Open) Exercise (Closed) Leak Rate (Exercise Closed)	Refuel Refuel 2 Year		RFJ-024 RFJ-024
1E21-F001	G	20	2	A	MO	O	O,C	M05-1073;B-4	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E21-F003	NC	12	2	C		C	O,C	M05-1073;E-6	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1E21-F005	G	10	1	A	MO	C	O,C	M05-1073;E-4	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E21-F006	NC	10	1	A/C		C	O,C	M05-1073;E-2	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Refueling Refueling 2 Year		RFJ-005 RFJ-005
1E21-F011	G	4	2	A	MO	O	O,C	M05-1073;D-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 27

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E21-F012	GL	10	2	A	MO	C	C	M05-1073;D-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E21-F018	R	1.5x2	2	A/C		C	O,C	M05-1073;E-5	Bench Leak Rate	10 Year App J		
1E21-F031	R	1.5x1	2	A/C		C	O,C	M05-1073;C-8	Bench Leak Rate	10 Year App J		
1E21-F033	C	2.5	2	C		O	O	M05-1073;D-6	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E21-F034	GSC	2	2	C		O	O,C	M05-1073;D-6	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E21-F303	NC	10	2	C		C	O	M05-1073;C-5	Exercise	3 Month		
1E22-F001	G	16	2	A	MO	O	C	M05-1074;A-6	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1E22-F002	C	16	2	C		O	O	M05-1074;A-5	Exercise (Open) Exercise - Alt Method	3 Month 3 Month		
1E22-F004	G	10	1	A	MO	C	O,C	M05-1074;E-7	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E22-F005	NC	10	1	A/C		C	O,C	M05-1074;E-8	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Refueling Refueling 2 Year		RFJ-005 RFJ-005

\*\* Tech. Specs. require testing every 18 months

\*\*\* These Valves tested together as a unit

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 28

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E22-F006	GSC	2	2	C		O	O,C	M05-1074;D-4	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E22-F007	C	2.5	2	C		O	O	M05-1074;D-4	Exercise (Closed)*** Exercise (Open)	3 Month 3 Month		
1E22-F010	GL	10	2	A	MO	C	C	M05-1074/1;D-6	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1E22-F011	GL	10	2	A	MO	C	C	M05-1074/1;D-5	Leak Rate Position Indication Stroke Time (Exercise) Leak Rate	2 Year 2 Year 3 Month 2 year		
1E22-F012	G	4	2	A	MO	C	O,C	M05-1074/1;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E22-F014	R	1x0.75	2	A/C		C	O,C	M05-1074;C-5	Bench Leak Rate	10 Year App J		
1E22-F015	G	20	2	A	MO	C	O,C	M05-1074;B-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E22-F016	C	20	2	C		C	O	M05-1074;B-6	Exercise (Open) Exercise - Alt Method	3 Month 3 Month		
1E22-F023	GL	10	2	A	MO	C	C	M05-1074;D-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 29

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E22-F024	NC	14	2	C		C	O,C	M05-1074;E-3	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1E22-F035	R	1x0.75	2	A/C		C	O,C	M05-1074;E-3	Bench Leak Rate	10 Year App J		
1E22-F039	R	1x0.75	2	A/C		C	O,C	M05-1074;C-6	Bench Leak Rate	10 Year App J		
1E22-F330	EFC	0.75	2	A/C		O	O,C	M10-9074/3	Exercise (Closed) Leak Rate Position Indication Exercise (Open)	Refueling App J 2 Year** Refueling		RFJ-013
1E22-F332	EFC	0.75	2	A/C		O	O,C	M10-9074/3	Exercise (Closed) Leak Rate Position Indication Exercise (Open)	Refueling App J 2 Year** Refueling		RFJ-013
1E31-F014	G	1	2	B	SO	O	C	M05-1041/4;E-8	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E31-F015	G	1	2	B	SO	O	C	M05-1041/4;E-7	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E31-F017	G	1	2	B	SO	O	C	M05-1041/4;C-7	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E31-F018	G	1	2	B	SO	O	C	M05-1041/4;C-8	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E32-F001A	GL	1.5	1	A	MO	C	O,C	M05-1070;C-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-112

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 30

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E32-F001E	GL	1.5	1	A	MO	C	O,C	M05-1070;E-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-112
1E32-F001J	GL	1.5	1	A	MO	C	O,C	M05-1070;B-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-112
1E32-F001N	GL	1.5	1	A	MO	C	O,C	M05-1070;D-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-112
1E32-F002A	GL	1.5	2	B	MO	C	O,C	M05-1070;C-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F002E	GL	1.5	2	B	MO	C	O,C	M05-1070;E-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F002J	GL	1.5	2	B	MO	C	O,C	M05-1070;B-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F002N	GL	1.5	2	B	MO	C	O,C	M05-1070;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F003A	GL	1.5	2	B	MO	C	O,C	M05-1070;C-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F003E	GL	1.5	2	B	MO	C	O,C	M05-1070;E-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F003J	GL	1.5	2	B	MO	C	O,C	M05-1070;A-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F003N	GL	1.5	2	B	MO	C	O,C	M05-1070;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 31

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E32-F006	G	2.5	2	B	MO	C	O,C	M05-1070;C-4	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F007	G	2.5	2	B	MO	C	O,C	M05-1070;C-3	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F008	G	2.5	2	B	MO	C	O,C	M05-1070;A-4	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F009	G	2.5	2	B	MO	C	O,C	M05-1070;A-3	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-112
1E32-F010	C	0.75	2	C		C	O,C	M05-1070;E-4	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E32-F011	C	0.75	2	C		C	O,C	M05-1070;B-2	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E32-F315A	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E32-F315B	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E32-F315C	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E32-F315D	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Closed) Exercise (Open)	3 Month Cold Shutdown		CSJ-113
1E51-C002E	G	4	2	B	MO	O	C	M05-1079/2;D-3	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E51-D001	RD	8	2	C		C	C	M05-1079/1;F-1	Replace Rupture Disk	5 Year		
1E51-D002	RD	8	2	C		C	C	M05-1079/1;F-1	Replace Rupture Disk	5 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 32

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F004	CV	1	2	B	AO	O	C	M05-1079/1;B-1	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E51-F005	CV	1	2	B	AO	C	C	M05-1079/1;B-2	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E51-F010	G	6	2	A	MO	O	C	M05-1079/2;A-6	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1E51-F011	C	6	2	C		C	O	M05-1079/2;A-4	Exercise	3 Month		
1E51-F013	G	6	1	A	MO	C	O,C	M05-1079/2;F-6	Leak Rate Leak Rate Position Indication Stroke Time (Exercise)	2 Year App J 2 Year** Cold Shutdown		CSJ-105
1E51-F018	R	2x3	2	C		C	O	M05-1079/2;C-5	Bench	10 Year		
1E51-F019	GL	2	2	A	MO	C	O,C	M05-1079/2;D-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F021	C	2.5	2	C		C	O	M05-1079/2;D-5	Exercise	3 Month		
1E51-F022	GL	4	2	A	MO	C	C	M05-1079/2;E-5	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 year		
1E51-F025	CV	1	2	B	AO	O	C	M05-1079/1;D-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1E51-F026	CV	1	2	B	AO	O	C	M05-1079/1;D-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 33

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F030	C	6	2	C		C	O	M05-1079/2;B-4	Exercise	3 Month		
1E51-F031	G	6	2	A	MO	C	O,C	M05-1079/2;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F040	C	12	2	A/C		C	O,C	M05-1079/1;C-4	Exercise (Closed) Exercise (Open) Leak Rate (Alternate Exercise Closed)	3 Month 3 Month App J		
1E51-F045	GL	4	2	B	MO	C	O,C	M05-1079/1;D-4	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E51-F046	GL	2	2	B	MO	C	O	M05-1079/2;C-3	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E51-F059	G	4	2	A	MO	C	C	M05-1079/2;E-5	Leak Rate Position Indication Stroke Time (Exercise) Leak Rate	2 Year 2 Year 3 Month 2 year		
1E51-F061	C	2.5	2	C		O	O	M05-1079/2;B-4	Exercise (Open)	3 Month		
1E51-F062	GSC	2	2	C		O	O	M05-1079/2;B-4	Exercise (Open)	3 Month		
1E51-F063	G	8	1	A	MO	O	C	M05-1079/1;E-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F064	G	8	1	A	MO	O	C	M05-1079/1;E-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F065	NC	4	1	C		C	O	M05-1079/2;E-6	Exercise	Cold Shutdown		CSJ-114

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 34

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F066	NC	4	1	A/C		C	O,C	M05-1079/2;F-8	Exercise (Open) Leak Rate (Exercise Closed) Leak Rate	Cold Shutdown Refueling 2 Year		CSJ-105 RFJ-015
1E51-F068	G	12	2	A	MO	O	C	M05-1079/1;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F076	GL	1	1	A	MO	C	C	M05-1079/1;E-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F077	GL	1.5	2	A	MO	O	C	M05-1079/1;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F078	G	3	2	A	MO	O	C	M05-1079/1;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1E51-F079	VR	2	2	C		C	O	M05-1079/1;C-6	Exercise (Set Point)	10 Year		
1E51-F081	VR	2	2	C		C	O	M05-1079/1;C-6	Exercise (Set Point)	10 Year		
1E51-F090	R	0.75x1	2	A/C		C	O,C	M05-1079/2;E-5	Bench Leak Rate	10 Year App J		
1E51-F095	G	1	2	B	MO	C	O,C	M05-1079/1;D-4	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1E51-F377A	EFC	0.75	2	A/C		O	O,C	M10-9079/2	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 35

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F377B	EFC	0.75	2	A/C		0	O,C	M10-9079/2	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013
1FC004A	CV	8	3	B	AO	0	O	M05-1037/3;E-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1FC004B	CV	8	3	B	AO	0	O	M05-1037/3;A-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1FC007	G	10	2	A	MO	0	C	M05-1037/1;B-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FC008	G	10	2	A	MO	0	C	M05-1037/1;B-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FC011A	B	14	3	B	MO	0	O,C	M05-1037/3;E-7	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC011B	B	14	3	B	MO	0	O,C	M05-1037/3;A-7	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC013A	NC	14	3	C		0	O,C	M05-1037/3;E-7	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1FC013B	NC	14	3	C		0	O,C	M05-1037/3;A-7	Exercise (Closed) Exercise (Open)	3 Month 3 Month		
1FC015A	B	14	3	B	MO	0	O	M05-1037/3;E-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 36

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1FC015B	B	14	3	B	MO	O	O	M05-1037/3;A-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC016A	B	8	3	B	MO	O	C	M05-1037/3;D-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC016B	B	8	3	B	MO	O	C	M05-1037/3;C-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC017	B	8	3	B	AO	O	C	M05-1037/3;C-6	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1FC023	B	8	3	B	AO	O	C	M05-1037/3;C-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1FC024A	B	8	3	B	MO	O	C	M05-1037/3;E-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC024B	B	8	3	B	MO	O	C	M05-1037/3;C-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC026A	B	14	3	B	MO	O	O,C	M05-1037/3;E-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC026B	B	14	3	B	MO	O	O,C	M05-1037/3;B-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1FC036	G	8	2	A	MO	O	C	M05-1037/1;E-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FC037	G	8	2	A	MO	O	C	M05-1037/1;E-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 37

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1FC091	R	4x6	3	C		C	O	M05-1037/3;E-1	Bench	10 Year		
1FC095A	R	0.75x1	3	C		C	O	M05-1046/1;F-2	Bench	10 Year		
1FC095B	R	0.75x1	3	C		C	O	M05-1046/1;F-3	Bench	10 Year		
1FP050	G	6	2	A	MO	O	C	M05-1039/9;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FP051	G	10	2	A-P*	M	C	C	M05-1039/9;C-7	Leak Rate	App J		
1FP052	G	10	2	A	MO	O	C	M05-1039/9;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FP053	G	10	2	A	MO	O	C	M05-1039/9;C-4	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1FP054	G	10	2	A-P*	M	C	C	M05-1039/9;C-2	Leak Rate	App J		
1FP092	G	6	2	A	MO	O	C	M05-1039/9;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1G33-F001	G	6	1	A	MO	O	C	M05-1076/4;B-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115
1G33-F004	G	6	1	A	MO	O	C	M05-1076/4;B-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 38

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1G33-F028	G	4	2	A	MO	C	C	M05-1076/4;E-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1G33-F034	G	4	2	A	MO	C	C	M05-1076/4;E-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1G33-F039	G	4	2	A	MO	O	C	M05-1076/4;D-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115
1G33-F040	G	4	2	A	MO	O	C	M05-1076/4;D-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115
1G33-F051	NC	4	2	C		O	C	M05-1076/4;D-6	Exercise (Closed)	Refueling		RFJ-019
1G33-F052A	NC	4	2	C		O	C	M05-1076/4;D-5	Exercise (Closed)	Refueling		RFJ-019
1G33-F052B	NC	4	2	C		O	C	M05-1076/4;D-5	Exercise (Closed)	Refueling		RFJ-019
1G33-F053	G	4	2	A	MO	O	C	M05-1076/4;C-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115
1G33-F054	G	4	2	A	MO	O	C	M05-1076/4;C-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-115
1HG001	B	2	2	A	MO	C	O,C	M05-1063;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 39

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1HG004	B	2	2	A	MO	C	O,C	M05-1063;C-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1HG005	B	2	2	A	MO	C	O,C	M05-1063;E-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1HG008	B	2	2	A	MO	C	O,C	M05-1063;E-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1HG009A	G	6	2	B	MO	C	O,C	M05-1063;E-4	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1HG009B	G	6	2	B	MO	C	O,C	M05-1063;E-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1HG010A	VR	10	2	C		C	O,C	M05-1063;C-4	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG010B	VR	10	2	C		C	O,C	M05-1063;C-7	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG010C	VR	10	2	C		C	O,C	M05-1063;B-4	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG010D	VR	10	2	C		C	O,C	M05-1063;B-7	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE 11--VALVES

Page 40

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1HG011A	VR	10	2	C		C	O,C	M05-1063;C-4	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG011B	VR	10	2	C		C	O,C	M05-1063;C-6	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG011C	VR	10	2	C		C	O,C	M05-1063;B-4	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
1HG011D	VR	10	2	C		C	O,C	M05-1063;B-6	Exercise (Actuator) Set Point (Exercise) Position Indication	3 Month 10 Year ** 2 Year		
11A005	CV	3	2	A	AO	O	C	M05-1040/5;D-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-106
11A006	CV	3	2	A	AO	O	C	M05-1040/5;D-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-106
11A007	CV	3	2	B	AO	O	C	M05-1040/5;D-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year Cold Shutdown		CSJ-106
11A008	CV	3	2	B	AO	O	C	M05-1040/5;D-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year Cold Shutdown		CSJ-106
11A012A	GL	1	2	A	MO	O	O,C	M05-1040/7;D-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 41

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1IA012B	GL	1	2	A	MO	O	C	M05-1040/7;C-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1IA013A	GL	1	2	A	MO	O	O,C	M05-1040/7;D-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1IA013B	GL	1	2	A	MO	O	C	M05-1040/7;C-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1IA042A	C	1	2	A/C		O	C,O	M05-1040/7;D-6	Exercise Leak Rate	Refueling App J		RFJ-016
1IA042B	C	1	2	A/C		O	C,O	M05-1040/7;D-4	Exercise Leak Rate	Refueling App J		RFJ-016
1IA128A	R	1.5x3	D	C		C	O	M05-1040/7;E-7	Bench	10 Year		
1IA128B	R	1.5x3	D	C		C	O	M05-1040/7;E-2	Bench	10 Year		
1IA175	C	0.5	2	A/C		O	C	M05-1040/5;E-3	Leak Rate (Exercise)	Refueling		RFJ-017
1IA41MA	RD	1.5	D	C		C	C	M05-1040/7;E-7	Replace Rupture Disk	5 Year		
1IA41MB	RD	1.5	D	C		C	C	M05-1040/7;E-2	Replace Rupture Disk	5 Year		
1PS004	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS005	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 42

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1PS009	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS010	G	0.75	2	A	SO	C	C	M05-1045/12;E-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS016	G	0.5	2	A	SO	C	C	M05-1045/12;E-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS017	G	0.5	2	A	SO	C	C	M05-1045/12;E-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS022	G	0.5	2	A	SO	C	C	M05-1045/12;E-4	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS023	G	0.5	2	A	SO	C	C	M05-1045/12;E-4	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS031	G	0.75	2	A	SO	C	C	M05-1045/12;E-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS032	G	0.75	2	A	SO	C	C	M05-1045/12;E-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 43

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1PS034	G	0.75	2	A	SO	C	C	M05-1045/12;F-1	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS035	G	0.75	2	A	SO	C	C	M05-1045/12;E-1	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS037	G	0.5	2	A	SO	C	C	M05-1045/12;E-8	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS038	G	0.75	2	A	SO	C	C	M05-1045/12;E-8	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS043A	G	0.75	2	B	SO	C	C	M05-1045/12;F-2	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1PS043B	G	0.75	2	B	SO	C	C	M05-1045/12;F-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1PS044A	G	0.75	2	B	SO	C	C	M05-1045/12;E-2	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1PS044B	G	0.75	2	B	SO	C	C	M05-1045/12;E-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1PS047	G	0.75	2	A	SO	C	C	M05-1045/12;F-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS048	G	0.75	2	A	SO	C	C	M05-1045/12;E-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 44

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1PS055	G	0.5	2	A	SO	C	C	M05-1045/12;C-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS056	G	0.5	2	A	SO	C	C	M05-1045/12;C-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS069	G	0.75	2	A	SO	C	C	M05-1045/12;B-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1PS070	G	0.75	2	A	SO	C	C	M05-1045/12;B-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1RA016A	R	1x1.5	3	C		C	O	M05-1065/8;C-7	Bench	10 Year		
1RA016B	R	1x1.5	3	C		C	O	M05-1065/8;C-3	Bench	10 Year		
1RE019	CV	3	2	B	AO	O	C	M05-1046/4;A-7	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1RE020	CV	3	2	B	AO	O	C	M05-1046/3;A-4	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1RE021	CV	3	2	A	AO	O	C	M05-1046/3;B-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1RE022	CV	3	2	A	AO	O	C	M05-1046/3;B-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 45

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1RF019	CV	3	2	B	AO	0	C	M05-1047/3;B-2	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1RF020	CV	3	2	B	AO	0	C	M05-1047/3;B-3	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1RF021	CV	3	2	A	AO	0	C	M05-1047/3;B-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1RF022	CV	3	2	A	AO	0	C	M05-1047/3;B-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1SA029	CV	3	2	A	AO	0	C	M05-1048/6;D-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1SA030	CV	3	2	A	AO	0	C	M05-1048/6;D-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1SA031	CV	3	2	B	AO	0	C	M05-1048/6;D-4	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1SA032	CV	3	2	B	AO	0	C	M05-1048/6;D-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1SF001	G	10	2	A	MO	C	C	M05-1060;E-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SF002	G	10	2	A	MO	C	C	M05-1060;E-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 46

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SF004	G	12	2	A	MO	C	C	M05-1060;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SM001A	B	24	2	B	MO	C	O	M05-1069;D-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SM001B	B	24	2	B	MO	C	O	M05-1069;D-4	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SM002A	B	24	2	B	MO	C	O	M05-1069;D-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SM002B	B	24	2	B	MO	C	O	M05-1069;D-4	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SM003A	R	0.75x1	2	C		C	O	M05-1069;D-5	Bench	10 year		
1SM003B	R	0.75x1	2	C		C	O	M05-1069;D-4	Bench	10 Year		
1SM008	EFC	0.75	2	A/C		O	O,C	M05-1069;A-3	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013
1SM009	EFC	0.75	2	A/C		O	O,C	M05-1069;C-3	Exercise (Open) Leak Rate Position Indication Exercise (Closed)	Refueling App J 2 Year** Refueling		RFJ-013
1SM010	EFC	0.75	2	A/C		O	C	M05-1069;C-3	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 47

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SM011	EFC	0.75	2	A/C		O	C	M05-1069;B-4	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1SX001A	NC	30	3	C		C	O,C	M05-1052/1;D-7	Partial Exercise (Open) Exercise (Open) Exercise (Closed)	3 Month Refueling 3 Month		RFJ-022
1SX001B	NC	30	3	C		C	O,C	M05-1052/2;D-7	Partial Exercise (Open) Exercise (Open) Exercise (Closed)	3 Month Refueling 3 Month		RFJ-022
1SX001C	NC	10	3	C		C	O,C	M05-1052/3;D-7	Partial Exercise (Open) Exercise (Open) Exercise (Closed)	3 Month Refueling 3 Month		RFJ-021
1SX003A	B	30	3	B	MO	O	O	M05-1052/1;D-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX003B	B	30	3	B	MO	O	O	M05-1052/2;D-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX003C	B	10	3	B	MO	O	O	M05-1052/3;D-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX004A	B	30	3	B	MO	O	O	M05-1052/1;D-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX004B	B	30	3	B	MO	O	O	M05-1052/2;D-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX004C	B	10	3	B	MO	O	O	M05-1052/3;D-5	Position Indication Stroke Time (Exercise)	2 Year 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 48

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX006C	B	8	3	B	MO	C	O	M05-1052/3;D-2	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX008A	B	20	3	B	MO	C	O	M05-1052/1;E-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX008B	B	20	3	B	MO	C	O	M05-1052/2;E-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX008C	B	8	3	B	MO	C	O	M05-1052/3;D-6	Position Indication Stroke Time (Exercise)	2 Year 3 Month		
1SX010A	CV	2	3	B	AO	C	O	M05-1052/1;E-3	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX010B	CV	2	3	B	AO	C	O	M05-1052/2;E-3	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX010C	CV	1.5	3	B	AO	C	O	M05-1052/3;E-4	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX011A	B	16	3	A	MO	C	C	M05-1052/1;D-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX011B	B	16	3	A	MO	C	C	M05-1052/2;E-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX012A	B	14	3	B	MO	C	O	M05-1052/1;C-3	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-107
1SX012B	B	14	3	B	MO	C	O	M05-1052/2;C-3	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-107
1SX013D	P	3	3	B	MO	C	O	M05-1052/1;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX013E	P	3	3	B	MO	C	O	M05-1052/2;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 49

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX013F	P	2	3	B	MO	C	O,C	M05-1052/3;C-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX014A	B	20	3	A	MO	O	C	M05-1052/1;F-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX014B	B	20	3	A	MO	O	C	M05-1052/2;F-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX014C	B	8	3	A	MO	O	C	M05-1052/3;E-4	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX016A	G	2.5	3	B	MO	C	O,C	M05-1052/1;C-3	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-001
1SX016B	G	2.5	3	B	MO	C	O,C	M05-1052/2;D-3	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-001
1SX020A	B	12	3	A	MO	O	C	M05-1052/1;C-4	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX020B	B	12	3	A	MO	O	C	M05-1052/2;C-4	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX023A	CV	2	3	B	AO	C	O	M05-1052/1;C-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX023B	CV	2	3	B	AO	C	O	M05-1052/2;C-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX027A	CV	2.5	3	B	AO	C	O	M05-1052/4;D-6	Stroke Time (Exercise, Loss of Power)	3 Month		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 50

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX027B	CV	2.5	3	B	AO	C	O	M05-1052/4;D-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX027C	CV	2.5	3	B	AO	C	O	M05-1052/4;C-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX029A	CV	1.5	3	B	AO	C	O	M05-1052/4;D-6	Stroke Time (Exercise, Loss of Power) Stroke Time (Exercise) Alt. Procedure	3 Month 3 Month		
1SX029B	CV	1.5	3	B	AO	C	O	M05-1052/4;D-2	Stroke Time (Exercise, Loss of Power) Stroke Time (Exercise) Alt. Procedure	3 Month 3 Month		
1SX029C	CV	1.5	3	B	AO	C	O	M05-1052/4;B-2	Stroke Time (Exercise, Loss of Power) Stroke Time (Exercise) Alt. Procedure	3 Month 3 Month		
1SX033	CV	2.5	3	B	AO	C	O	M05-1052/4;C-6	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX037	CV	1.5	3	B	AO	C	O	M05-1052/4;B-6	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX041A	CV	2.5	3	B	AO	C	O	M05-1052/3;C-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX041B	CV	2.5	3	B	AO	C	O	M05-1052/3;B-2	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX062A	B	14	3	B	MO	C	O	M05-1052/1;B-4	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-107
1SX062B	B	14	3	B	MO	C	O	M05-1052/2;B-4	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-107
1SX063A	B	8	3	B	MO	C	O	M05-1052/1;C-2	Position Indication Stroke Time (Exercise) Stroke Time (Exercise)	2 Year 3 Month		
1SX063B	B	8	3	B	MO	C	O	M05-1052/2;C-2	Position Indication Stroke Time (Exercise) Stroke Time (Exercise)	2 Year 3 Month		
1SX071A	G	3	3	B	MO	C	C	M05-1052/5;F-7	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 51

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX071B	G	3	3	B	MO	C	C	M05-1052/5;F-3	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002
1SX073A	G	3	3	A	MO	C	O,C	M05-1052/5;F-6	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX073B	G	3	3	A	MO	C	O,C	M05-1052/5;F-2	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX074A	G	3	3	B	MO	C	C	M05-1052/5;E-7	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002
1SX074B	G	3	3	B	MO	C	C	M05-1052/5;E-3	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002
1SX076A	G	3	3	A	MO	C	O,C	M05-1052/5;D-7	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX076B	G	3	3	A	MO	C	O,C	M05-1052/5;D-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX082A	G	3	3	A	MO	O	C	M05-1052/1;D-1	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		
1SX082B	G	3	3	A	MO	O	C	M05-1052/2;D-1	Position Indication Stroke Time (Exercise) Leak Rate	2 Year 3 Month 2 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 52

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX088A	G	3	2	A	MO	O	C	M05-1052/5;C-8	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX088B	G	3	2	A	MO	O	C	M05-1052/5;C-4	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX089A	G	3	2	A	MO	O	C	M05-1052/5;C-7	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX089B	G	3	2	A	MO	O	C	M05-1052/5;C-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX096A	G	3	2	A	MO	O	C	M05-1052/5;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX096B	G	3	2	A	MO	O	C	M05-1052/5;C-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX097A	G	3	2	A	MO	O	C	M05-1052/5;C-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1SX097B	G	3	2	A	MO	O	C	M05-1052/5;C-1	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 53

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX105A	G	3	3	B	MO	C	C	M05-1052/5;D-7	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002
1SX105B	G	3	3	B	MO	C	C	M05-1052/5;D-3	Position Indication Stroke Time (Exercise)	2 Year Refueling		RFJ-002
1SX107A	G	3	3	A	MO	C	O,C	M05-1052/5;D-7	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX107B	G	3	3	A	MO	C	O,C	M05-1052/5;D-3	Position Indication Stroke Time (Exercise) Leak Rate	2 Year Refueling 2 Year		RFJ-002
1SX149	R	0.75x1	3	C		C	O	M05-1052/4;C-6	Bench	10 Year		
1SX150	R	0.75x1	3	C		C	O	M05-1052/4;B-6	Bench	10 Year		
1SX151A	R	0.75x1	3	C		C	O	M05-1052/4;E-6	Bench	10 Year		
1SX151B	R	0.75x1	3	C		C	O	M05-1052/4;E-2	Bench	10 Year		
1SX151C	R	0.75x1	3	C		C	O	M05-1052/4;C-2	Bench	10 Year		
1SX152A	R	0.75x1	3	C		C	O	M05-1052/1;C-3	Bench	10 Year		
1SX152B	R	0.75x1	3	C		C	O	M05-1052/2;C-2	Bench	10 Year		
1SX153A	R	0.75x1	3	C		C	O	M05-1052/1;C-7	Bench	10 Year		
1SX153B	R	0.75x1	3	C		C	O	M05-1052/2;C-6	Bench	10 Year		
1SX154A	R	0.75x1	3	C		C	O	M05-1052/4;E-6	Bench	10 Year		
1SX154B	R	0.75x1	3	C		C	O	M05-1052/4;E-2	Bench	10 Year		
1SX154C	R	0.75x1	3	C		C	O	M05-1052/3;C-2	Bench	10 Year		
1SX155A	R	0.75x1	3	C		C	O	M05-1052/1;E-4	Bench	10 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 54

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX155B	R	0.75x1	3	C		C	O	M05-1052/2;F-3	Bench	10 Year		
1SX155C	R	0.75x1	3	C		C	O	M05-1052/3;D-4	Bench	10 Year		
1SX156A	R	0.75x1	3	C		C	O	M05-1052/3;C-2	Bench	10 Year		
1SX156B	R	0.75x1	3	C		C	O	M05-1052/3;B-2	Bench	10 Year		
1SX157A	R	0.75x1	3	C		C	O	M05-1052/5;C-6	Bench	10 Year		
1SX157B	R	0.75x1	3	C		C	O	M05-1052/5;B-2	Bench	10 Year		
1SX169A	R	0.75x1	3	C		C	O	M05-1052/1;C-3	Bench	10 Year		
1SX169B	R	0.75x1	3	C		C	O	M05-1052/2;C-3	Bench	10 Year		
1SX169C	R	0.75x1	3	C		C	O	M05-1052/3;D-2	Bench	10 Year		
1SX170A	R	0.75x1	3	C		C	O	M05-1052/1;B-3	Bench	10 Year		
1SX170B	R	0.75x1	3	C		C	O	M05-1052/2;B-3	Bench	10 Year		
1SX181A	CV	2.5	3	B	AO	C	O	M05-1052/1;F-1	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX181B	CV	2.5	3	B	AO	C	O	M05-1052/2;F-1	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX185A	CV	2.5	3	B	AO	C	O	M05-1052/1;E-1	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX185B	CV	2.5	3	B	AO	C	O	M05-1052/2;E-1	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX189	CV	2.5	3	B	AO	C	O	M05-1052/2;B-4	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX193A	CV	1.5	3	B	AO	C	O	M05-1052/1;B-7	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX193B	CV	1.5	3	B	AO	C	O	M05-1052/2;B-4	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX197	CV	2	3	B	AO	C	O	M05-1052/1;B-4	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX200A	R	0.75x1	3	C		C	O	M05-1052/1;F-1	Bench	10 Year		
1SX200B	R	0.75x1	3	C		C	O	M05-1052/2;F-1	Bench	10 Year		
1SX201A	R	0.75x1	3	C		C	O	M05-1052/1;E-1	Bench	10 Year		
1SX201B	R	0.75x1	3	C		C	O	M05-1052/2;F-1	Bench	10 Year		

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 55

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX202A	R	0.75x1	3	C		C	O	M05-1052/1;A-7	Bench	10 Year		
1SX202B	R	0.75x1	3	C		C	O	M05-1052/2;C-5	Bench	10 Year		
1SX203	R	0.75x1	3	C		C	O	M05-1052/2;B-5	Bench	10 Year		
1SX204	R	0.75x1	3	C		C	O	M05-1052/1;B-5	Bench	10 Year		
1SX207	R	0.75x1	3	C		C	O	M05-1052/2;B-2	Bench	10 Year		
1SX208A	R	4x6	3	C		C	O	M05-1052/1;C-1	Bench	10 Year		
1SX208B	R	4x6	3	C		C	O	M05-1052/2;D-1	Bench	10 Year		
1SX209	CV	1.5	3	B	AO	C	O	M05-1052/2;A-1	Stroke Time (Exercise, Loss of Power)	3 Month		
1SX225	G	3	3	A-P*	M	C	C	M05-1052/3;D-4	Leak Rate	2 Year		
1SX294	R	0.75x1	3	C		C	O	M05-1052/1;D-7	Bench	10 Year		
1SX315A	VR	0.75	3	C	SC	C	O,C	M05-1052/3;C-2	Exercise (Set Point) Exercise (Closed) Exercise (Open)	10 year Refueling Refueling		RFJ-023
1SX315B	VR	0.75	3	C	SC	C	O,C	M05-1052/3;C-2	Exercise (Set Point) Exercise (Closed) Exercise (Open)	10 year Refueling Refueling		RFJ-023
1SX316A	VR	0.75	3	C	SC	C	O,C	M05-1052/3;C-2	Exercise (Set Point) Exercise (Closed) Exercise (Open)	10 year Refueling Refueling		RFJ-023
1SX316B	VR	0.75	3	C	SC	C	O,C	M05-1052/3;C-2	Exercise (Set Point) Exercise (Closed) Exercise (Open)	10 year Refueling Refueling		RFJ-023
1VG056B	EFC	0.75	2	A/C		O	C	M10-9105/4	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES

Page 56

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VG057B	EFC	0.75	2	A/C		0	C	M10-9105/10	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1VP004A	G	10	2	A	MO	0	C	M05-1109/2;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP004B	G	10	2	A	MO	0	C	M05-1109/4;D-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP005A	G	10	2	A	MO	0	C	M05-1109/10;D-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP005B	G	10	2	A	MO	0	C	M05-1109/3;D-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP014A	G	10	2	A	MO	0	C	M05-1109/2;E-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP014B	G	10	2	A	MO	0	C	M05-1109/3;E-3	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP015A	G	10	2	A	MO	0	C	M05-1109/2;E-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 57

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VP015B	G	10	2	A	MO	O	C	M05-1109/3;E-2	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** 3 Month		
1VP023A	R	0.75x1	2	A/C		C	O,C	M05-1109/2;D-3	Bench Leak Rate	10 Year App J		
1VP023B	R	0.75x1	2	A/C		C	O,C	M05-1109/3;D-3	Bench Leak Rate	10 Year App J		
1VP027A	R	0.75x1	2	A/C		C	O,C	M05-1109/2;F-3	Bench Leak Rate	10 Year App J		
1VP027B	R	0.75x1	2	A/C		C	O,C	M05-1109/3;F-3	Bench Leak Rate	10 Year App J		
1VQ001A	B	24	2	B-P*	AO	C	C	M05-1110/2;C-8	Position Indication	2 Year		
1VQ001B	B	24	2	B-P*	AO	C	C	M05-1110/2;C-7	Position Indication	2 Year		
1VQ002	B	24	2	B	AO	C	C	M05-1110/2;C-6	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1VQ003	B	36	2	B	AO	C	C	M05-1110/2;C-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1VQ004A	B	36	2	A	AO	C	C	M05-1110/2;D-4	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-117
1VQ004B	B	36	2	A	AO	C	C	M05-1110/2;D-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-117
1VQ005	B	10	2	B	AO	C	C	M05-1110/2;D-6	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 58

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VQ006A	GL	4	2	A-P*	MO	C	C	M05-1110/2;C-4	Leak Rate Position Indication	App J 2 Year**		
1VQ006B	GL	4	2	A-P*	MO	C	C	M05-1110/2;C-4	Leak Rate Position Indication	App J 2 Year**		
1VR001A	B	36	2	A	AO	C	C	M05-1111/1;E-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-117
1VR001B	B	36	2	A	AO	C	C	M05-1111/1;E-1	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** Cold Shutdown		CSJ-117
1VR002A	GL	4	2	A-P*	MO	C	C	M05-1111/1;E-2	Leak Rate Position Indication	App J 2 Year**		
1VR002B	GL	4	2	A-P*	MO	C	C	M05-1111/1;E-1	Leak Rate Position Indication	App J 2 Year**		
1VR006A	B	12	2	A	AO	O	C	M05-1111/5;E-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR006B	B	12	2	A	AO	O	C	M05-1111/5;E-2	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR007A	B	12	2	A	AO	O	C	M05-1111/5;B-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR007B	B	12	2	A	AO	O	C	M05-1111/5;B-7	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

\* Passive Valve

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 59

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VR016A	EFC	0.75	2	A/C		0	C	M10-9111/5	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1VR016B	EFC	0.75	2	A/C		0	C	M10-9111/5	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1VR018A	EFC	0.75	2	A/C		0	C	M10-9111/5	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1VR018B	EFC	0.75	2	A/C		0	C	M10-9111/5	Exercise Leak Rate Position Indication	Refueling App J 2 Year**		RFJ-013
1VR035	2WAY	0.75	2	A	SO	0	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR036	2WAY	0.75	2	A	SO	0	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR040	2WAY	0.75	2	A	SO	0	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		
1VR041	2WAY	0.75	2	A	SO	0	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

\*\* Tech. Specs. require testing every 18 months

AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 60

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1W0001A	G	6	2	A	MO	O	C	M05-1117/19;E-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-108
1W0001B	G	6	2	A	MO	O	C	M05-1117/19;E-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-108
1W0002A	G	6	2	A	MO	O	C	M05-1117/19;F-5	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-108
1W0002B	G	6	2	A	MO	O	C	M05-1117/19;F-6	Leak Rate Position Indication Stroke Time (Exercise)	App J 2 Year** Cold Shutdown		CSJ-108
1W0551A	G	4	2	B	MO	O	C	M05-1117/26;E-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-109
1W0551B	G	4	2	B	MO	O	C	M05-1117/26;E-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-109
1W0552A	G	4	2	B	MO	O	C	M05-1117/26;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-109
1W0552B	G	4	2	B	MO	O	C	M05-1117/26;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-109
1W0570A	R	0.75x1	2	C		C	O	M05-1117/26;F-7	Bench	10 Year		
1W0570B	R	0.75x1	2	C		C	O	M05-1117/26;D-7	Bench	10 Year		
1WX019	P	2	2	A	AO	O	C	M05-1089/2;F-6	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

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AMERGEN ENERGY COMPANY  
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN SECOND INTERVAL  
TABLE II--VALVES  
Page 61

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE-GORY	ACTU-ATOR	POSITION		P&ID/SHEET; COORDINATES	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1WX020	P	2	2	A	AO	O	C	M05-1089/2;F-5	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	App J 2 Year** 3 Month		

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