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10 CFR 50.55a

LR-N12-0292
August 30, 2012

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

HOPE CREEK GENERATING STATION
RENEWED FACILITY OPERATING LICENSE NO. NPF-57
NRC DOCKET NO. 50-354

Subject: **Submittal of Program for Hope Creek Third Ten-Year Interval Inservice Testing Program**

In accordance with the American Society of Mechanical Engineers (ASME) Code for Operation and Maintenance of Nuclear Power Plants (OM Code), Subsection ISTA-3200(a), "Administrative Requirements," attached for your information is a copy of the Inservice Testing (IST) Program Plan for the third ten-year interval. The third ten-year interval IST Program was developed in accordance with the requirements of the ASME OM Code-2001 Edition, with Addenda through OMb-2003. The relief requests included within the program document were previously addressed under separate submittals. The third ten-year interval began on December 21, 2006 and concludes on December 20, 2016.

There are no regulatory commitments contained within this letter.

Should you have any questions concerning this matter, please contact Mr. Lee Marabella at 856-339-1208.

Sincerely,

Paul R. Duke, Jr.
Licensing Manager
PSEG Nuclear LLC

Attachment: Hope Creek Nuclear Generating Station Inservice Testing Program Submittal Interval 3

cc: W. Dean, Administrator, Region I, NRC
NRC Senior Resident Inspector, Hope Creek
J. Hughey, Project Manager, Hope Creek and Salem USNRC
P. Mulligan, Manager IV, NJBNE (w/o attachments)
L. Marabella, Corporate Commitment Tracking Coordinator (w/o attachments)
Paul Bonnett, Hope Creek Commitment Tracking Coordinator (w/o attachments)

HOPE CREEK
NUCLEAR GENERATING STATION
Hancocks Bridge, New Jersey

INSERVICE TESTING PROGRAM SUBMITTAL
INTERVAL 3

Effective Date
December 21, 2006 through December 20, 2016

REVISION 0

Docket No: 50-354

Facility Operating License Number: NPF-57

Commercial Operation Date: December 20th, 1986

Prepared by: _____

Consultant - IST Programs - Jeffrey A. Neyhard

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Reviewed by: _____

Manager – IST Programs - Robert Binz IV

Approved By: _____

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Hope Creek Inservice Testing Plan

REVISION LOG

Effective Date	Revision Description	Prepared; IST Program Engineer	Date	Approved; Engr. Programs Manager	Date
12/21/06	Revision 0, Initial issue 3rd Interval	B. Binz	12/21/06	M. Pfizenmaier	12/21/06

Hope Creek Inservice Testing Plan

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Hope Creek Inservice Testing Plan

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Program Narrative Revision	0	12/21/06
Table 1 - System and P&ID Listing	Revision 0	12/21/06
Table 2 - Pump Test Table	Revision 0	12/21/06
Table 3 - Valve Test Table	Revision 0	12/21/06
Attachment 1 - Technical Positions	Revision 0	12/21/06
Attachment 2 - Cold Shutdown Justifications	Revision 0	12/21/06
Attachment 3 - Refueling Outage Justifications	Revision 0	12/21/06
Attachment 4 - Pump Relief Requests	Revision 0	12/21/06
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Hope Creek Inservice Testing Plan

1.0 MANUAL SUMMARY

The Hope Creek Nuclear Generating Station Inservice Testing Manual has two major sections: Basis and Program. A description of the IST Manual sections is provided below:

Basis - This section identifies the pumps and valves that have safety functions which perform a specific function required to bring the reactor from any operating mode to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident. For each system included in the program, each Process and Instrument Diagram (P&ID) sheet was analyzed to determine if any pumps or valves had safety functions. Each pump or valve associated with each safety function was analyzed to determine if it had an active safety function described in the UFSAR, Technical Specification, or other design basis documents. Note that some components with passive safety functions are not analyzed. An example of a passive component that is not analyzed is a manual vent, drain or test connection valve that is normally closed. All components with active safety functions are covered in the Basis document. The Basis document also contains test circuit diagrams, instrument accuracy tables, and a section for interpretation of requirements.

Program - This section is the submittal document for the Nuclear Regulatory Commission (NRC). This section meets the minimum content requirements for a Program Submittal, and is sufficiently complete to provide an adequate description of the program. This program document provides the following: a description of the IST Program, Hope Creek IST Technical Positions, Cold Shutdown Justifications, Refueling Outage Justifications, 10CFR50.55a Requests, Pump Test Tables and Valve Test Tables.

2.0 PROGRAM SUBMITTAL

2.1 PROGRAM REVISION EXECUTIVE SUMMARY

Interval 3 Program - Revision 0:
120-Month 3rd Ten Year Interval Program Update.

2.2 PROGRAM PURPOSE

The purpose of this program plan document is to provide the requirements for assessing the operational readiness of pumps and valves whose specific functions are required to bring the reactor from any operating mode to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident.

Hope Creek Generating Station is licensed with a safe shutdown condition of Cold Shutdown.

The Inservice Testing Program for Pumps and Valves is applicable for a one hundred twenty (120) month interval. The chronology for Hope Creek Generating Station is listed below:

- The first 120-month interval began on 12/20/86, the commercial operating date, through 12/20/96. The first interval was extended an additional 12 months to end on 12/20/97 (ref. LR-N96404 dated 12/15/96.) This action was necessary to permit completion of the Interval 2 Program Update.

- The second 120-month interval IST Program began on 12/21/97 and was decreased to nine years, ending on 12/20/06.

- The third 120-month interval IST Program is effective 12/21/2006 through 12/20/2016.

The Program portion of the IST Manual is submitted to the NRC for their overall review and specific approval of associated 10CFR50.55a Requests for the successive 120-month IST Program. The program documents submitted to the NRC are used to prepare for IST inspections and to review 10CFR50.55a Requests.

Regarding periodic changes, NUREG 1482 specifies that the program document need not be submitted more often than necessary to reflect major changes, but it is expected that licensees make changes to the document periodically, and once per cycle, or once every other cycle, a complete up-to-date, copy should be submitted to the NRC.

This program plan establishes the requirements which are then translated into implementing (surveillance) procedures for inservice testing and evaluation of Class 1, 2, and 3 pumps and valves. Additionally, using the guidance in NUREG 1482, Revision 1, certain other valves not required to be classified as Class 1, 2, and 3, but which perform a specific function required to bring the reactor from any operating mode to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident, are also included.

2.3 REGULATORY BASIS

Code of Federal Regulations, Title 10, Section 50.55a (10CFR50.55a), "Codes and Standards," states requirements for IST of certain safety-related pumps and valves. These components are required to be tested according to the requirements of Operation and Maintenance of Nuclear Power Plants, ASME OM Code-2001 Edition through the 2003 Addenda. The testing is intended to assess operational readiness of components. The tests conducted during the initial and successive 120-month intervals are to be based on the requirements in the applicable edition and addenda of the Code, to the extent practical, within the limitations of design, geometry, and materials of construction, as described in 10 CFR50.55a(f)(4).

10 CFR50.55a(f)(4)(ii) requires that IST in each 120-month interval following the initial interval be conducted in compliance with the requirements of the latest edition and addenda of the Code incorporated by reference in 10CFR50.55a(b), in effect 12 months before the start of the interval. Pursuant to 10CFR50.55a(f)(4)(iv), IST may meet the requirements of subsequent editions and addenda incorporated by paragraph (b) or portions of a revised edition. When portions of a revised edition are used, all related requirements of the respective editions or addenda must be met and approval of the NRC obtained as clarified by RIS-04-012 dated 7/28/2004.

The NRC may authorize alternatives to Code testing requirements submitted as 10CFR50.55a requests, or submitted in a similar format that includes a description of the requirements, a description of the proposed alternative, and the justification for approval of the alternative. 10CFR50.55a(a)(3)(i) allows the NRC to authorize alternatives if "the proposed alternatives would provide an acceptable level of quality and safety." The NRC will normally approve an alternative pursuant to this provision only if the licensee proposes a method of testing that is an equivalent method, or an improvement, to the Code method, or if the testing will comply or is consistent with the later Code editions approved by NRC in 10CFR50.55a(b). Where plant design makes the testing of certain components complicated or impossible, an alternate method of testing is documented in a 10CFR50.55a Request. Indices and text are provided as Attachment 4, Pump 10CFR50.55a Requests, and as Attachment 5, Valve 10CFR50.55a Requests.

The Hope Creek Inservice Testing Program for Pumps and Valves was developed in accordance with the requirements of ASME OM Code-2001, (Subsections ISTA, ISTB, ISTC, Mandatory Appendix I and Mandatory Appendix II) including subsequent changes through the ASME OMb Code-2003 Addenda.

The components were classified and categorized in accordance with the Code of Record with test requirements and intervals assigned accordingly. Technical Specification, UFSAR and other licensing commitments were referenced during the assignment of test intervals. Additional guidance for the development of the Hope Creek Inservice Testing Program was obtained from NUREG 1482, Revision 1, "Guidelines for Inservice Testing at Nuclear Power Plants".

The 10CFR50 Appendix J Program Plan for Primary Containment Testing at Hope Creek Nuclear Generating Station is in compliance with the requirements of 10CFR50 Appendix J, Option B, Regulatory Guide 1.163, September 1995 and Station Technical Specifications.

2.4 OM CODE CASE ACCEPTABILITY

ISTA-3130 Application of Code Cases

(a) Code Cases to be used during a preservice or inservice test or examination shall be identified in the test plan.

(b) Code Cases shall be applicable to the edition and addenda specified in the test plan.

(c) Code Cases shall be in effect at the time the test plan is filed, except as provided in ISTA-3130(d).

(d) Code Cases issued subsequent to filing the test plan may be proposed for use in amendments to the test plan.

NUREG 1482 Section 2.1.1, ASME Code Case Applicability

If a licensee would like to use an ASME Code Case with a Edition or Addendum of the ASME Code to which it is not applicable, the licensee' has the following options:

a. Have the alternative to use the Code Case, beyond its stated applicability, authorized by the NRC pursuant to 10CFR50.55a(a)(3), or

b. If the Code Case is applicable to an Edition or Addendum of the ASME Code later than the version of the Code being used by the licensee, the licensee could update to the later version of the Code pursuant to 10CFR50.55a(f)(4)(iv)' or (g)(4)(iv) and then use the Code Case, provided the Code Case has been approved for use in the appropriate Regulatory Guide and incorporated by reference into, 10CFR50.55a. Note that the later version of the ASME Code must also have been incorporated by reference into 10CFR 50.55a, the licensee must update all related requirements of the respective Edition or Addenda; and the update must be specifically approved by the Commission.

Licensee should not use ASME Code Cases with Editions and Addenda of the ASME Code to which they do not apply and that are not specifically approved for use by the NRC. More specifically, licensees should not "reconcile" the Applicability of Code Cases without consulting with the applicable ASME Code 'Committee.

Regultory Guide 1.192 Introduction and Discussion

Regulatory guide 1.192 identifies the Code Cases that have been determined by the NRC to be acceptable alternatives to applicable parts of the OM Code.

These Code Cases may be used by licensees, without request to the NRC, provided they are used with any identified limitations or modifications. *(SEE ABOVE OM ISTA-3130(b) REQUIREMENT; i.e., THE CODE CASE MUST BE APPLICABLE TO THE EDITION AND ADDENDA SPECIFIED IN THE TEST PLAN. PER NUREG 1482, AUTHORIZATION IS REQUIRED WHEN USING CODE CASES BEYOND THEIR STATED APPLICABILITY)*

OM Code Cases not yet endorsed by the NRC may be implemented through 10CFR50.55a(a)(3), which permits the use of alternatives to the Code requirements referenced in 10CFR50.55a provided the proposed alternatives result in an acceptable level of quality and safety and provided their use is authorized by the Director of the Office of Nuclear Reactor Regulation.

Regulatory guide 1.192, Appendix A lists the OM Code edition or addenda for each Code Case, with the date of approval by the ASME Board on Nuclear Codes and Standards. Appendix B is a numerical listing of the OM Code Cases.

Table 1, "Acceptable OM Code Cases," lists the Code Cases that are acceptable to the NRC for implementation in the IST of lightwater cooled nuclear power plants.

Table 2, "Conditionally Acceptable OM Code Cases," lists the Code Cases that are acceptable provided they are used with the identified limitations or modifications, i.e., the Code Case is generally acceptable but the NRC has determined that the alternative requirements must be supplemented in order to provide an acceptable level of quality and safety.

OM Code Cases that the NRC has determined to be unacceptable are listed in Regulatory Guide 1.193, "ASME Code Cases Not Approved for Use."

With regard to the use of any Code Case, it is the responsibility of the user to make certain that the provisions of the Code Case do not conflict with regulatory requirements or licensee commitments.

Code Cases Selected for use at HCGS

As documented in 10CFR50.55a Request V-07, HCGS adopts the alternative test requirements specified in Code Case OMN-8, "Alternative Rules for Preservice and Inservice Testing of Power-Operated Valves that are used for System Control and have a Safety Function per OM-10", in lieu of stroke timing certain air operated control valves in accordance with the requirements specified in paragraphs ISTC-5130.

2.5 PROGRAM DEVELOPMENT

The IST Program covers components in ASME Code Class systems and a limited number of Non-ASME Code Class systems. Components included in the IST Program are those whose specific functions are required to bring the reactor from any operating mode to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident.

ASME Class 1, 2 and 3 piping and components are identified on the Hope Creek Piping and Instrument Diagrams (P&ID's). The P&ID's were reviewed to identify systems or portions of systems that are Code Class 1, 2, or 3. P&ID's containing Class 1, 2, or 3 plant pumps and valves or other pumps and valves with safety functions that require testing are listed in Table 1-1, System and P&ID Listing. Each Class 1, 2, and 3 component was reviewed to determine which require testing to satisfy the scope requirements of ASME OM Code-2001, including subsequent changes through the ASME OMb Code-2003 Addenda, Subsection ISTA, "General Requirements", Article ISTA-1000, "Introduction", Subarticle ISTA-1100,"Scope".

After all systems or portions of systems containing pumps and valves within the scope of the IST Program were identified, the safety function(s) for each component was determined. The safety function of each component is identified and documented in a computerized database. The references used in these determinations are also recorded and include the UFSAR, Technical Specifications, and other design basis documents. IST categories per ASME OM Code-2001, including subsequent changes through the ASME OMb Code-2003 Addenda are also identified. In cases where an interpretation of the ASME OM Code or applicable regulations was necessary, the interpretation was documented in a plant-specific Technical Position. These Technical Positions are included in this program plan as Attachment 1, Technical Positions.

Where the testing of certain plant components is not possible during normal plant operation, an alternate testing schedule is documented in a Cold Shutdown Justification. An index and text is provided in Attachment 2, Cold Shutdown Justifications. Where the testing of certain plant components is not possible during a cold shutdown, an alternate testing schedule is documented in a Refueling Outage Justification. An index and text is provided in Attachment 3, Refueling Outage Justifications. Where plant design makes the testing of certain components complicated or impossible, an alternate method of testing is documented in a 10CFR50.55a Request. Indices and text are provided in Attachment 4, Pump 10CFR50.55a Requests, and Attachment 5, Valve 10CFR50.55a Requests.

Components failing to meet test requirements will be dispositioned by the Plant's Corrective Action program. Specific responsibilities are defined in the Plant procedures.

2.6 REFERENCES

Technical Specifications, Hope Creek Nuclear Generating Station.

Updated Final Safety Analysis Report, Hope Creek Nuclear Generating Station.

Code of Federal Regulations, Title 10, Section 50.55a, "Codes and Standards"

10CFR50 Appendix A, General Design Criteria for Nuclear Power Plants

10CFR50 Appendix J, Primary Reactor Containment Leakage Testing for Water Cooled Power Reactors

ASME OM Code-2001, including subsequent changes through the ASME OMb Code-2003 Addenda

Minutes Of The Public Meetings On Generic Letter 89-04, dated October 25, 1989

Generic Letter No. 89-04, Guidance on Developing Acceptable Inservice Testing Programs.

NUREG 1482, Revision 1, Section 5.5.4, "Accuracy of the Flow Rate Instrument Loop"

NUREG-0800, Standard Review Plan.

NUREG-1482, Revision 1, January 2005, Guidelines for Inservice Testing at Nuclear Power Plants

NUREG/CP-0123, Second NRC/ASME Symposium on Pump & Valve Testing, Session 2A, Use of Ultrasonics and Acoustics in Measurement of Solenoid Valve Stroke Time at Hope Creek Generating Station.

NRC Inspection Procedure 73756, Inservice Testing of Pumps and Valves, July 27, 1995.

NRC Temporary Instruction 2515/110, Performance of Safety-Related Check Valves, November 1991.

NRC Temporary Instruction 2515/114, Inspection Requirements for Generic Letter 89-04, Acceptable Inservice Testing Programs, January 1992.

NRC Regulatory Guide 1.26, "Quality Group Classification and Standards for Water, Steam and Radioactive Waste Containing Components of Nuclear Power Plants."

NRC Regulatory Guide 1.137, "Fuel Oil Systems for Standby Diesel Generators."

NEI White Paper Revision 1, Standard Format for Requests from Commercial Reactor Licensees Pursuant to 10CFR50.55a, June 2004

Summary of Public Workshops; Inspection Procedure 73756 and Answers to IST Questions, July 18, 1997

NRC Regulatory Guide 1.192, "Operation and Maintenance Code Case Acceptability, ASME OM Code (ML030730430)", June 2003

NRC Regulatory Guide 1.193, "ASME Code Cases Not Approved for Use", June 2003

2.7 DEFINITIONS

Active valves - Valves which are required to change obturator position to accomplish the required function(s) (e.g., valves which receive an automatic safety actuation signal, or check valves not locked or held in position). If a valve is routinely repositioned during power operations (or has an active safety function), it is an active valve. A valve need not be considered active if it is only temporarily removed from service or from its safety position for a short period of time, such as manually opening a sample valve to take a sample while maintaining administrative control over the valve.

Active Failure - A malfunction in the active part of a component. An active failure in mechanical components could be due to a part moving that should not move, or a part failing to move.

Alert Range - The range for a given pump parameter outside the normal operating range in which an increased testing frequency is specified.

Category A, B, C or D - Groupings of valves by function. When more than one distinguishing category characteristic is applicable, all requirements of each category are applicable, although duplication or repetition of common testing requirements is not required. The valve categories are as follows:

a. **Category A** - valves for which seat leakage is limited to a specific maximum amount in the closed position for fulfillment of their function(s).

b. **Category B** - valves for which seat leakage in the closed position is inconsequential for fulfillment of their function(s).

c. **Category C** - valves which are self-actuating in response to some system characteristic, such as pressure (safety/relief valves) or flow direction (check valves) for fulfillment of the required function(s).

d. **Category D** - valves which are actuated by an energy source capable of only one operation, such as rupture disks or explosively actuated valves

Containment Isolation Valve (CIV) - Any valve whose function is to prevent post accident containment atmosphere leakage to areas outside containment.

Enforcement Authority - A regional or local governing body, such as a state or municipality of the United States empowered to enact and enforce Boiler and Pressure Vessel Code Legislation.

Exercising - The demonstration, based on direct visual or indirect positive indications, that the moving parts of a valve will perform the required function(s).

Fail-Safe Valve - Valve that moves to the position required to fulfill its safety function upon loss of motive power (pneumatic, hydraulic or electric).

Full Stroke Time - The time interval from initiation of an actuating signal to a valve to the indication of the defined end of the operating stroke of the valve.

Inservice Test - A test for obtaining information through measurement or observation to determine the operational readiness of a pump or valve.

Inservice Test Program Submittal - The document that establishes scope and detailed testing requirements needed to comply with the ASME OM Code, applicable IST Technical Specifications and other licensing basis documents. The IST Program provisions that are submitted to the Regulatory Authority in accordance with applicable requirements.

Inservice Test Program - A collection of documents including the Inservice Test Program Submittal, procedures, records of tests, etc., that specify and implement inservice testing requirements.

Instrument Accuracy - The allowable inaccuracy of an instrument loop based on the square root of the sum of the squares of the inaccuracies (including gage readability) of each instrument or component in the loop. For flow loops, this inaccuracy does not include the inaccuracies of the flow sensing element; e. g., orifice, venturi, etc.

When a difference in readings taken from the same or different instruments is required to determine a value of a parameter (e.g., two levels taken over a timed interval to determine flow rate) the inaccuracy of the result is to be based on the square root of the sum of the squares of the inaccuracies of each instrument loop reading.

Instrument Loop - Two or more instrument or components working together to provide a single output (e.g., a vibration probe and its associated signal conditioning and readout devices).

Leakage Rate Test - Verification of the leak tight integrity of a valve using differential gas or liquid pressure or system fluid pressure.

Maximum Required Accident Condition Flow - The largest flow rate for which credit is taken for a component in a safety analysis in any flow configuration. The safety analyses are those contained in the UFSAR but are not limited to accident and transient analyses.

Normal System Operating Conditions - System fluid, pressure, and temperature during the phase of plant operation for which that system is intended to function.

Obturator - Valve closure member (disk, gate, plug, ball, etc.).

Operational Readiness - The ability of a pump or valve to perform its intended function.

Owner - The organization legally responsible for the operation, maintenance, safety, and power generation of the nuclear power plant.

Partial-Stroke Exercising -

a. Exercising a check valve to an open position less than full open or less than that required to pass the maximum required accident condition flow rate.

b. For power operated valves, exercising a valve to an intermediate position, versus fully open or fully closed.

Passive Valve - Valves which maintain obturator position and are not required to change obturator position to accomplish the required function(s) for shutting down the reactor to the safe shutdown condition, maintaining the reactor in safe shutdown, or in mitigating the consequences of an accident. If a valve is routinely repositioned during power operations (or has an active safety function), it is an active valve. A valve need not be considered active if it is only temporarily removed from service or from its safety position for a short period of time, such as stroke time measurement for surveillance testing or manually opening a sample valve to take a sample while maintaining administrative control over the valve.

Valves that are locked or deenergized in their required positions, or are only repositioned from their safety position under administrative control are, in most cases, considered passive. Valves that are routinely repositioned during plant operation are not considered passive. "Routine" includes valve operations which occur as a result of normal operating procedures. Valve operations included within off-normal or emergency procedures are not considered routine. Valve operations which occur as a result of system startup or shutdown procedures, or infrequent operating procedures may be considered routine depending upon the frequency of the operation.

Plant Operation - The condition of operation at power as defined by the plant Technical Specifications.

Pressure Isolation Valve (PIV) - Either of two normally closed valves in series that isolate the reactor coolant system from an attached low pressure system, as defined by the Technical Specifications.

Pump Groups: **Group A** - Pumps that are operated continuously or routinely during normal operation, cold shutdown, or refueling operations.

Group B – Pumps in standby systems that are not operated routinely except for testing.

Rapid-Acting Valves - An optional classification for power operated valves with a full stroke time of 2 seconds or less.

Reactor Coolant System Pressure Isolation - That function which prevents intersystem over pressurization between the reactor coolant system and connected low-pressure systems.

Reference Values - One or more values of test parameters measured or determined <u>when</u> the equipment is known to be operating acceptably.

Regulatory Authority - A federal governm ent agency, such as the United States Nuclear Regulatory Commission, em powered to issue and enforce regulations concerning the design, construction, and operation of nuclear power plants.

Remote Actuation - Actuation of a pressure relief device through a generated signal rather than by static inlet pressure.

Required Action Range - That region outside the upper and lower lim its in which the pum p is considered inoperable until the cause of the deviation has been determined and the condition corrected

Skid-mounted Pumps and Valves - Pumps and valves integral to or that support operation of m ajor components, even though these pum ps and valves m ay not be located directly on the skid. In general, these pumps and valves are supplied by the manufacturer of the major component.

Examples include:
(a) diesel fuel oil pumps and valves;
(b) steam admission and trip throttle valves for high-pressure coolant injection turbine-driven pumps;
(c) steam admission and trip throttle valves for auxiliary feedwater turbine-driven pumps;
(d) solenoid-operated valves provided to control an air-operated valve.

Thermal Relief Valve - A relief valve shall be considered in a therm al application if they serve to protect portions of safety-related system s or com ponents solely from over pressure due to therm al expansion while the com ponent or portion of system is in an isolated condition. The applicable system portion or component would not be isolated during normal operations or accident conditions.

Vertical Line Shaft Pump - A vertically suspended pump where the pump driver and pump element are connected by a line shaft within an enclosed column.

3.0 INSERVICE TESTING PROGRAM FOR PUMPS

3.1 Pump Inservice Testing Program Description

This program establishes the requirements for the performance, administration, and implementation of the Inservice Testing Program for selected pumps at Hope Creek Nuclear Station. This program includes pumps that are provided with an emergency power source and are required in shutting down the reactor to the safe shutdown condition, maintaining the safe shutdown condition, or mitigating the consequences of an accident.

This program plan meets the requirements of ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTB, "Inservice Testing of Pumps in Light-Water Reactor Nuclear Power Plants" Specific 10CFR50.55a requests from Code requirements are contained in Attachment 4.

NOTE: Transitioning to the applicable edition of the ASME OM Code for the IST Third 10-Year Interval requires the Grouping of pumps according to function as well as adopting the Comprehensive Pump Test.

The pump groupings, instrument accuracy requirements, test parameters and acceptance criteria for test parameters are detailed in Subsection ISTB.

When a Group A test is required a Comprehensive test may be substituted. When a Group B test is required a Group A test or Comprehensive test may be substituted. A preservice test may be substituted for any inservice test.

Group A Pumps

The OM Code defines Group A pumps as those pumps that are operated continuously or routinely during normal operation, cold shutdown, or refueling operations. HCGS considers the following pumps as being categorized as Group A as well as justification for grouping. Justification does not necessarily consider all safety related functions.

Residual Heat Removal Pumps A, B

Provide reactor vessel coolant inventory makeup following a large break LOCA. The low pressure coolant injection (LPCI) mode of RHR system operation is classified as ECCS and is relied upon in accident analyses to provide adequate coolant flow to remove core decay heat and prevent core damage. These pumps provide residual heat removal flow during plant shutdown operations. It is noted that RHR Pump C or D is capable of being aligned to provide residual heat removal flow during plant shutdown operations however the ability to align these pumps to provide shutdown cooling is not required for the safe shutdown of the plant or to meet design bases accident assumptions. RHR Pumps C and D are considered Category B pumps.

Safety Auxiliaries Cooling Pumps A, B, C, D

Provide cooling water flow to various safety related components and room coolers. During normal plant operation, the safety auxiliaries cooling system (SACS) supplies cooling water to the fuel pool heat exchanger, Class 1E Equipment Chillers, Control Room Chillers and Primary

Containment Instrument Gas Compressor Coolers, as well as the turbine auxiliaries cooling system (TACS). This system is required to operate during design basis accidents to support emergency core cooling system (ECCS) operation and to supply cooling water for decay heat removal (RHR heat exchangers) during shutdown operations.

HPCI Keep Full Jockey Pump
Provide long-term feedwater sealing for the feedwater lines following a design basis LOCA. UFSAR 6.2.3.2.3 discusses the the use of the HPCI and RCIC jockey pump loops to provide makeup water to the feedwater piping between the isolation valves to prevent bypass leakage. The jockey pump also maintains the HPCI discharge header full and pressurized during standby operation to prevent pipe damage from water hammer in the discharge line upon system initiation and improve system response time.

RCIC Keep Full Jockey Pump
Provide long-term feedwater sealing for the feedwater lines following a design basis LOCA. UFSAR 6.2.3.2.3 discusses the the use of the HPCI and RCIC jockey pump loops to provide makeup water to the feedwater piping between the isolation valves to prevent bypass leakage. The jockey pump also maintains the RCIC discharge header full and pressurized during standby operation to prevent pipe damage from water hammer in the discharge line upon system initiation and improve system response time.

Control Area Chilled Water Pumps A & B
Provide chill water flow to the control room chillers and maintain the control room temperatures within required limits during normal plant operation and during design basis accidents.

Safety Panel Room Chill Water Pumps A & B
Provide chill water flow to the safety-related panel room chillers and maintain the the room temperatures within required limits during normal plant operation and during design basis accidents.

Service Water Pumps A, B, C, D
Provide cooling water from the river to the safety auxiliaries cooling system (SACS) during normal and emergency conditions. SACS is required to provide cooling water to various ECCS pumps and room coolers during a design basis accident.

Screen Wash Booster Pumps A, B, C, D
Provide cleaning spray flow for the service water traveling screens. These screens are located on the suction side of the service water pump to prevent debris from entering the service water system. Operation of the screen wash booster pump prevents the screen from clogging by providing a spray flow of sufficient velocity and pressure to ensure debris removal.

Group B Pumps

The OM Code defines Group B pumps as those pumps in standby systems that are not operated routinely except for testing. HCGS considers the following pumps as being categorized as Group B as well as justification for grouping.

Residual Heat Removal Pumps C, D

Provide reactor vessel coolant inventory makeup following a large break LOCA. The low pressure coolant injection (LPCI) mode of RHR system operation is classified as ECCS and is relied upon in accident analyses to provide adequate coolant flow to remove core decay heat and prevent core damage. For operational flexibility a means is provided to align RHR pump C or D to the RCS for shutdown cooling. In the event RHR Pump A or B is not available, these pumps may be aligned to provide residual heat removal flow during plant shutdown operations. Normally, RHR pumps A and B supply the shutdown cooling requirements for the plant. The ability to align RHR pumps C or D to provide shutdown cooling is not required for the safe shutdown of the plant or to meet design bases accident assumptions.

Reactor Core Isolation Cooling Pump

While not credited as an ECCS component, the RCIC pump is safety-related and considered important to safety. This pump provides make-up capability for a small break LOCA in which the reactor vessel is not immediately depressurized.

High Pressure Coolant Injection Pump & Booster Pump

The HPCI pump is an ECCS component that is also used to maintain reactor vessel inventory following reactor isolation and coincident failure of the non-ECCS RCIC system.

The HPCI Booster pump is integral with HPCI pump in that they are driven off the same turbine and ensures that the minimum net positive suction head requirements of the HPCI pump are maintained for the design accident flow rates.

Core Spray Pumps A, B, C, D

To provide reactor vessel inventory makeup and spray cooling during large breaks in which the reactor core is calculated to uncover. After ADS initiation, core spray also provides inventory makeup following a small break LOCA.

Standby Liquid Control Injection Pumps A & B

The standby liquid control system is a special event plant capability system designed to provide a manual backup method, independent of the control rods, to achieve and maintain the reactor in a subcritical condition as nuclear system cools down. This pump provides the hydraulic force necessary to inject the boron solution into the reactor vessel.

Diesel Fuel Oil Transfer Pumps A, B, C, D, E, F, G, H

Transfer diesel fuel oil from the fuel oil storage tank to the fuel oil day tank during engine operation. The fuel oil transfer pump automatically transfers fuel oil from the storage tank to the day tank at a rate greater than the engine consumption rate at full rated load.

3.2 Pump Program Table Description

The pumps included in the Hope Creek Nuclear Generating Station IST Program are listed in Table 2. The information contained in this table identifies those pumps required to be tested to the requirements of ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTB, "Inservice Testing of Pumps in Light-Water Reactor Nuclear Power Plants". The pump tables show the following information:

PUMP NO - Component number as used on the P&ID and other plant documents.

PUMP DESCRIPTION - A description of the component.

PUMP GROUP – Identifies Group A or Group B Categorization.

P + ID No - Hope Creek Piping & Instrument Diagram, dash, sheet number.

P + ID Name - The name of the Hope Creek Piping & Instrument Diagram.

Drawing Coordinates - A letter / number combination that aids in locating the component on the P&ID.

ASME Class - Classification per ASME Boiler and Pressure Vessel Code, Section III. Code classes are Class 1 (1), Class 2 (2), Class 3 (3), and non-class (NC).

Pump Type - Pump types are horizontal centrifugal, vertical line shaft centrifugal, or positive displacement.

Driver - The power conversion method for the pump. Drivers are motor or turbine.

Mfg. Model ID - The name or model identifier used by the manufacturer.

TEST TYPE - Parameter to be measured during test. Possible parameters are discharge pressure (P); differential pressure (dP); suction pressure (Pi); flow rate (Q); speed (N); Vibration (V).

TEST FREQ. - quarterly full flow (Q-F); quarterly recirculation (Q-R); cold shutdown full flow (CS-F); cold shutdown recirculation (CS-R); reactor refueling outage full flow (RF-F); or reactor refueling outage recirculation (RF-R).

EXCEPTION - If a 10CFR50.55a request is associated with this pump, the 10CFR50.55a request number is shown here. If a cold shutdown justification is associated with this pump, the cold shutdown justification number is shown here.

TECH. POS. - If a technical position is associated with this pump, the technical position number is shown here.

COMMENTS - Any other information.

4.0 INSERVICE TESTING PROGRAM FOR VALVES

4.1 Valve Inservice Testing Program Description

This program establishes the requirements for the performance, administration, and implementation of the Inservice Testing Program for selected valves at Hope Creek Nuclear Station. This program includes those valves which are required to perform a specific function in shutting down the reactor to the safe shutdown condition, maintaining the safe shutdown condition, or mitigating the consequences of an accident.

This program plan meets the requirements of ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTC, "Inservice Testing of Valves in Light-Water Reactor Nuclear Power Plants", Mandatory Appendix I, "Requirements for Inservice Performance Testing of Nuclear Power Plant Pressure Relief Devices", and Mandatory Appendix II, "Check Valve Condition Monitoring Program." Specific 10CFR50.55a requests from Code requirements are contained in Attachment 5.

Class 1 thermal relief valves shall be tested in accordance with the requirements of paragraph I-1320 of Appendix I. Class 2 and 3 thermal relief valves shall be tested in accordance with the requirements of paragraph I-1390 of Appendix I.

Note: In transitioning to OM Code-2001 through the OM Code-2003 Addenda, each check valve will require exercising to both the open and closed positions regardless of their safety function. Additionally, periodic partial stroke exercising is no longer a Code requirement.

Category C check valves shall be exercised nominally every 3 months, except as provided by ISTC-3522 and ISTC-5221. During operation at power, each check valve shall be exercised or examined in a manner that verifies obturator travel by using the methods in ISTC-5221. Each check valve exercise test shall include open and close tests. Open and closed tests need only be performed at an interval when it is practicable to perform both tests. Test order (e.g. whether the open test precedes the closed test) shall be determined by HCGS. Open and close tests are not required to be performed at the same time if they are both performed within the same interval.

Check Valve Condition Monitoring

As an alternative to the requirements of paragraphs ISTC-3510, ISTC-3520, ISTC-3530, ISTC-3550, and ISTC-5221, HCGS may establish a Condition Monitoring Program per ISTC-5222. The purpose of this program is to both (a) improve check valve performance and to (b) optimize testing, examination, and preventive maintenance activities in order to maintain the continued acceptable performance of a select group of check valves. HCGS may implement this program on a valve or a group of similar valves.

Examples of candidates for (a) improved valve performance are check valves that:

- have an unusually high failure rate during inservice testing or operations
- cannot be exercised under normal operating conditions or during shutdown
- exhibit unusual, abnormal, or unexpected behavior during exercising or operation
- the Owner elects to monitor for improved valve performance

Examples of candidates for (b) optimization of testing, examination, and preventive maintenance activities are check valves with documented acceptable performance that:

- have had their performance improved under the Condition Monitoring Program
- cannot be exercised or are not readily exercised during normal operating conditions or during shutdowns
- can only be disassembled and examined
- the Owner elects to optimize all the associated activities of the valve or valve group in a consolidated program.

The program shall be implemented in accordance with Appendix II, "Check Valve Condition Monitoring Program", of OM Code-2001 through the OMb Code-2003.

Check Valves included in the CV CMP are denoted in the IST Program Tables and IST Bases by a "CMP Active : Yes/No" designation. When the CMP Active field is "YES" the CV CMP group specific package controls the activities AND the test requirements specified in the IST Program Tables and IST Bases become non-applicable. When the CMP Active field is "NO" the IST Program controls the activities AND the test requirements specified in the IST Program Tables and IST Bases become applicable.

If the Appendix II condition monitoring program for a valve or valve group is discontinued then the requirements of ISTC-3510, ISTC-3520, ISTC-3530, ISTC-3550, and ISTC-5221 shall be implemented.

Manual Valves

Manual valve exercising; pursuant to 10 CFR 50.55a(b)(3)(vi), manual valves within the IST program scope that perform an active safety function shall be exercised through a complete cycle at least once every 2 years. Exercise testing shall be considered acceptable if valve stem travel exhibits unrestricted movement with no abnormal resistance or binding through one complete cycle. Where practical, process parameters may be utilized to verify obturator movement. However, where process parameters are utilized to verify obturator movement it is not necessary to be performed simultaneous to manual exercising. This testing methodology is consistent with the discussion provided in NUREG-1482, Rev.1, Section 4.4.4.

4.2 Valve Program Table Description

The valves included with the Hope Creek Nuclear Generating Station IST Program are listed in Table 3. The information contained in these exhibits identifies those valves required to be tested to the requirements of ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTC, "Inservice Testing of Valves in Light-Water Reactor Nuclear Power Plants", Mandatory Appendix I, "Requirements for Inservice Performance Testing of Nuclear Power Plant Pressure Relief Devices", and Mandatory Appendix II, "Check Valve Condition Monitoring Program." Valves exempt per Subsection ISTC are not listed. The headings for the valve tables are delineated below.

VALVE NO - Component number as used on the P&ID and other plant documents.

VALVE DESCRIPTION - A description of the component.

P & ID No - Hope Creek Piping & Instrument Diagram, dash, sheet number.

P & ID Name - The name of the Hope Creek Piping & Instrument Diagram.

Drawing Coordinates - A letter / number combination that aids in locating the component on the P&ID.

ASME Class - Classification per ASME Boiler and Pressure Vessel Code, Section III. Code classes are Class 1 (1), Class 2 (2), Class 3 (3), and non-class (NC).

IST Cat - Classification per Subsection ISTC, SubArticle ISTC-1300. IST Categories are A (e.g.; gate and globe valves where the leak rate is critical to their safety function), B (e.g.; gate and globe valves), C (e.g.; check and relief valves), AC (e.g.; check and relief valves where the leak rate is critical to their safety function) or D (e.g.; rupture disk or explosive actuated valve).

Valve Type - The possible valve types are diaphragm (DIA), check (CK), plug (PL), relief (RV), Thermal Relief Valve (TRV), gate (GT), globe (GB), stop check (SCK), three way (3WAY), butterfly (BFY), ball (BALL), needle (Needle), modified check valve (MCK), or testable check valve (TCK), excess flow check valve (XFV).

Actuator Type - The possible actuator types are air operated (AO), manually operated (MAN), motor operated (MO), self operated (SELF), solenoid operated (SO), steam operated (STM), hydraulically operated (HO), or self operated with a motor operator (such as stop check valve) (S/M).

Valve Size - The nominal valve size in inches.

Normal Position - The possible normal positions are open (O), close (C), both open and close (O/C), modulating (M), locked closed (LC), locked open (LO), throttled open (TO), or position dependent upon component operation (i.e. operates automatically with main component) (A).

Safety Position - The possible safety positions are open (O), close (C), both open and close (O/C), modulating (M), locked closed (LC), locked open (LO), or throttled open (TO).

A/P Classification - The classification of the valve as either Active or Passive. An Active (A) valve must reposition to fulfill its safety function. A Passive (P) valve need not reposition but must remain in its normal position to fulfill its safety function.

TEST TYPE - Parameter to be measured during test. Possible test types are as follows:

FSC	-	Full stroke exercise to the closed position.
FSO	-	Full stroke exercise to the open position.
FSTC	-	Fail safe test to the closed position.
FSTO	-	Fail safe test to the open position.
PIT	-	Position indication test.
RV	-	Relief valve test.
TRV	-	Thermal Relief valve test.
EX	-	Explosive valve test.
STC	-	Stroke time test to the closed position.
STO	-	Stroke time test to the open position.
CTC	-	Check valve test to the closed position.
CTO	-	Check valve test to the open position.
BDC	-	Check valve test to the non-safety related closed postion
BDO	-	Check valve test to the non-safety related open postion
LT	-	Leak rate test to ASME Section XI requirements. This test applies to valves where leakage might negatively affect their safety function but are not containment isolation valves, such as PIVs and accumulator check valves.
LJ	-	A Type C leak rate test per 10CFR50 Appendix J requirements. This test applies to containment isolation valves.
PS	-	Partial stroke exercise valve.
SAM	-	Sample Disassembly & Inspection Schedule
SKID	-	Skid-Mounted Component satisfied by testing major component.

TEST FREQ - Quarterly (Q), Cold shutdown (CS), Refueling outage (RF), Once every 18 months (18MO), Once every two years (2YR), Once every five years (5YR), Once every ten years (10YR) or Technical Specification required frequency (TS).

EXCEPTION - If a Cold Shutdown Justification, Refueling Outage Justification, or 10CFR50.55a request is associated with this valve, the number is shown here.

TECH POS - If a technical position is associated with this valve, the technical position number is shown here.

COMMENTS - Any other information.

Hope Creek Inservice Testing Plan

TABLE 1: SYSTEM AND P&ID LISTING
SYSTEMS IN IST PROGRAM

P&ID Sheet	System	Name
M-01-1	1	Main Steam System,
M-08-0	1, 2	P&ID Condensate & Refueling Water Storage and Transfer
M-10-1	4	P&ID Service Water
M-11-1	2	Safety Auxiliaries Cooling Reactor Building
M-12-1	2	P&ID Safety Auxiliaries Cooling Auxiliary Building
M-13-1	1	P&ID Reactor Auxiliaries Cooling
M-15-0	1-4	P&ID Compressed Air
M-15-1	1	Breathing Air
M-25-1	1	Plant Leak Detection
M-30-1	3	Diesel Engine Auxiliary Systems Starting Air & Lube Oil
M-38-0	2	Post Accident Sampling System
M-41-1	2	P&ID Nuclear Boiler
M-42-1	2	P&ID Nuclear Boiler Vessel Instrumentation
M-43-1	1	P&ID Reactor Recirculation System
M-44-1	1	P&ID Reactor Water Clean-Up
M-45-1	1	Instrument Gas Compressor
M-46-1	1	P&ID Control Rod Hydraulic Part A
M-46-1	2	P&ID Control Rod Hydraulic Part A
M-47-1	1	P&ID Control Rod Hydraulic Part B
M-48-1	1	P&ID Standby Liquid Control
M-49-1	1	P&ID Reactor Core Isolation Cooling
M-50-1	1	P&ID RCIC Pump Turbine
M-51-1	2	P&ID Residual Heat Removal
M-52-1	1	P&ID Core Spray
M-53-1	1	P&ID Fuel Pool Cooling & Torus Water Cleanup
M-55-1	1	P&ID High Pressure Coolant Injection
M-56-1	1	P&ID HPCI Pump Turbine
M-57-1	1	P&ID Containment Atmosphere Control
M-58-1	1	Containment Hydrogen Recombination System
M-59-1	3	P&ID Primary Containment Instrument Gas
M-60-1	1	Primary Containment Leakage Rate Testing
M-61-1	1	P&ID Liquid Radwaste Collection
M-66-0	1	P&ID Solid Radwaste
M-72-1	1	P&ID Main Steam Isolation Valve Sealing System
M-87-1	4	P&ID Chilled Water System Auxiliary Building Chilled Water
M-90-1	1	P&ID Aux. Bldg. Control Area Chilled Water System
10855-M-18(Q)48		EDG Air Start System
10855-M-18(Q)50		EDG Jacket Water Cooling System
10855-M-18(Q)56		EDG Lube Oil System

TABLE 2

PUMP TEST TABLE

TABLE 2

PUMP TEST TABLE

Hope Creek Inservice Testing Plan
TABLE 2: PUMPS

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1A-P-202	**RESIDUAL HEAT REMOVAL PUMP A**					
GROUP A						
M51-1	*Residual Heat Removal*	*B4*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 34PKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BC-001(Q)	Diff Press	Q-Grp A			
OP-IS.BC-001(Q)	Flow	Q-Grp A			
OP-IS.BC-001(Q)	Vibration	Q-Grp A			
OP-IS.BC-001(Q)	Diff Press	2Y-CPT			
OP-IS.BC-001(Q)	Flow	2Y-CPT			
OP-IS.BC-001(Q)	Vibration	2Y-CPT			

1B-P-202	**RESIDUAL HEAT REMOVAL PUMP B**					
GROUP A						
M51-1	*Residual Heat Removal*	*B6*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 34PKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BC-003(Q)	Diff Press	Q-Grp A			
OP-IS.BC-003(Q)	Flow	Q-Grp A			
OP-IS.BC-003(Q)	Vibration	Q-Grp A			
OP-IS.BC-003(Q)	Diff Press	2YR-CPT			
OP-IS.BC-003(Q)	Flow	2YR-CPT			
OP-IS.BC-003(Q)	Vibration	2YR-CPT			

1C-P-202	**RESIDUAL HEAT REMOVAL PUMP C**					
GROUP B						
M51-1	*Residual Heat Removal*	*B3*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 34PKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BC-002(Q)	Diff Press	Q-Grp B			
OP-IS.BC-002(Q)	Flow	Q-Grp B			
OP-IS.BC-002(Q)	Diff Press	2YR-CPT			
OP-IS.BC-002(Q)	Flow	2YR-CPT			
OP-IS.BC-002(Q)	Vibration	2YR-CPT			

Hope Creek Inservice Testing Plan
TABLE 2: PUMPS

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1D-P-202	**RESIDUAL HEAT REMOVAL PUMP D**					
GROUP B						
M51-1	*Residual Heat Removal*	*A7*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 34PKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BC-004(Q)	Diff Press	Q-Grp B			
OP-IS.BC-004(Q)	Flow	Q-Grp B			
OP-IS.BC-004(Q)	Diff Press	2YR-CPT			
OP-IS.BC-004(Q)	Flow	2YR-CPT			
OP-IS.BC-004(Q)	Vibration	2YR-CPT			

10-P-203	**REACTOR CORE ISOLATION COOLING PUMP**					
GROUP B						
M50-1	*RCIC Pump Turbine*	*E5*	*2*	*Centrifugal*	*Turbine*	*GE MDE0029000*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BD-001(Q)	Diff Press	Q-Grp B			
OP-IS.BD-001(Q)	Flow	Q-Grp B		P-02	
OP-IS.BD-001(Q)	Speed	Q-Grp B			
OP-IS.BD-001(Q)	Diff Press	2YR-CPT			
OP-IS.BD-001(Q)	Flow	2YR-CPT		P-02	
OP-IS.BD-001(Q)	Speed	2YR-CPT			
OP-IS.BD-001(Q)	Vibration	2YR-CPT			

10-P-204	**HIGH PRESSURE COOLANT INJECTION PUMP**					
GROUP B						
M56-1	*HPCI Pump Turbine*	*E4*	*2*	*Centrifugal*	*Turbine*	*Byron-Jackson/Borg Warner Dwg 1F-6519*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BJ-001(Q)	Diff Press	Q-Grp B			
OP-IS.BJ-001(Q)	Flow	Q-Grp B		P-01	
OP-IS.BJ-001(Q)	Speed	Q-Grp B			
OP-IS.BJ-001(Q)	Diff Press	2YR-CPT			
OP-IS.BJ-001(Q)	Flow	2YR-CPT		P-01	
OP-IS.BJ-001(Q)	Speed	2YR-CPT			
OP-IS.BJ-001(Q)	Vibration	2YR-CPT			

PUMP NO / *P + ID*	PUMP DESCRIPTION / *P + ID Name*	*Drawing Coordinates*	*ASME Class*	*Pump Type*	*Driver*	*Mfg Model ID*
1A-P-206	**CORE SPRAY PUMP A**					
GROUP B						
M52-1	*Core Spray*	*C6*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 25APKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.BE-001(Q)	Diff Press	Q-Grp B			
. OP-IS.BE-001(Q)	Flow	Q-Grp B			
. OP-IS.BE-001(Q)	Diff Press	2Y-CPT			
. OP-IS.BE-001(Q)	Flow	2Y-CPT			
. OP-IS.BE-001(Q)	Vibration	2Y-CPT			

1B-P-206	**CORE SPRAY PUMP B**					
GROUP B						
M52-1	*Core Spray*	*C4*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 25APKD*

. OP-IS.BE-002(Q)	Diff Press	Q-Grp B			
. OP-IS.BE-002(Q)	Flow	Q-Grp B			
. OP-IS.BE-002(Q)	Diff Press	2YR-CPT			
. OP-IS.BE-002(Q)	Flow	2YR-CPT			
. OP-IS.BE-002(Q)	Vibration	2YR-CPT			

1C-P-206	**CORE SPRAY PUMP C**					
GROUP B						
M52-1	*Core Spray*	*C5*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 25APKD*

. OP-IS.BE-001(Q)	Diff Press	Q-Grp B			
. OP-IS.BE-001(Q)	Flow	Q-Grp B			
. OP-IS.BE-001(Q)	Diff Press	2YR-CPT			
. OP-IS.BE-001(Q)	Flow	2YR-CPT			
. OP-IS.BE-001(Q)	Vibration	2YR-CPT			

PUMP NO / *P + ID*	PUMP DESCRIPTION / *P + ID Name*	*Drawing Coordinates*	*ASME Class*	*Pump Type*	*Driver*	*Mfg Model ID*
1D-P-206	**CORE SPRAY PUMP D**					
GROUP B						
M52-1	*Core Spray*	*C3*	*2*	*Vertical Line Shaft Centrifugal*	*Motor*	*Ingersoll Rand 25APKD*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.BE-002(Q)	Diff Press	Q-Grp B			
. OP-IS.BE-002(Q)	Flow	Q-Grp B			
. OP-IS.BE-002(Q)	Diff Press	2YR-CPT			
. OP-IS.BE-002(Q)	Flow	2YR-CPT			
. OP-IS.BE-002(Q)	Vibration	2YR-CPT			

1A-P-208	**STANDBY LIQUID CONTROL INJECTION PUMP A**					
GROUP B						
M48-1	*Standby Liquid Control*	*D5*	*2*	*Positive Displacement*	*Motor*	*GE Nuclear Energy 21A9342AN Union 2X3 TD-60 Triplex Pump*

. OP-IS.BH-003(Q)	Disch Press	Q-Grp B			
. OP-IS.BH-003(Q)	Flow	Q-Grp B			
. OP-IS.BH-003(Q)	Disch Press	2Y-CPT			
. OP-IS.BH-003(Q)	Flow	2Y-CPT			
. OP-IS.BH-003(Q)	Vibration	2Y-CPT			

1B-P-208	**STANDBY LIQUID CONTROL INJECTION PUMP B**					
GROUP B						
M48-1	*Standby Liquid Control*	*C5*	*2*	*Positive Displacement*	*Motor*	*GE Nuclear Energy Energy 21A9342AN Union 2X3 TD-60 Triplex Pump*

. OP-IS.BH-004(Q)	Disch Press	Q-Grp B			
. OP-IS.BH-004(Q)	Flow	Q-Grp B			
. OP-IS.BH-004(Q)	Disch Press	2YR-CPT			
. OP-IS.BH-004(Q)	Flow	2YR-CPT			
. OP-IS.BH-004(Q)	Vibration	2YR-CPT			

PUMP NO / *P + ID*	PUMP DESCRIPTION / *P + ID Name*	*Drawing Coordinates*	*ASME Class*	*Pump Type*	*Driver*	*Mfg Model ID*
1A-P-210	**SAFETY AUXILIARIES COOLING PUMP A**					
GROUP A						
M11-1	*Safety Auxiliaries Cooling Reactor Bldg*	*G5*	*3*	*Centrifugal*	*Motor*	*Ingersoll Rand 14X23S*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.EG-001(Q)	Diff Press	Q-Grp A			
OP-IS.EG-001(Q)	Flow	Q-Grp A			
OP-IS.EG-001(Q)	Vibration	Q-Grp A			
OP-IS.EG-001(Q)	Diff Press	2YR-CPT			
OP-IS.EG-001(Q)	Flow	2YR-CPT			
OP-IS.EG-001(Q)	Vibration	2YR-CPT			

1B-P-210	**SAFETY AUXILIARIES COOLING PUMP B**					
GROUP A						
M11-1	*Safety Auxiliaries Cooling Reactor Bldg*	*D5*	*3*	*Centrifugal*	*Motor*	*Ingersoll Rand 14X23S*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.EG-002(Q)	Diff Press	Q-Grp A			
OP-IS.EG-002(Q)	Flow	Q-Grp A			
OP-IS.EG-002(Q)	Vibration	Q-Grp A			
OP-IS.EG-002(Q)	Diff Press	2YR-CPT			
OP-IS.EG-002(Q)	Flow	2YR-CPT			
OP-IS.EG-002(Q)	Vibration	2YR-CPT			

1C-P-210	**SAFETY AUXILIARIES COOLING PUMP C**					
GROUP A						
M11-1	*Safety Auxiliaries Cooling Reactor Bldg*	*F5*	*3*	*Centrifugal*	*Motor*	*Ingersoll Rand 14X23S*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.EG-003(Q)	Diff Press	Q-Grp A			
OP-IS.EG-003(Q)	Flow	Q-Grp A			
OP-IS.EG-003(Q)	Vibration	Q-Grp A			
OP-IS.EG-003(Q)	Diff Press	2YR-CPT			
OP-IS.EG-003(Q)	Flow	2YR-CPT			
OP-IS.EG-003(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1D-P-210	**SAFETY AUXILIARIES COOLING PUMP D**					
GROUP A						
M11-1	*Safety Auxiliaries Cooling Reactor Bldg*	*C5*	*3*	*Centrifugal*	*Motor*	*Ingersoll Rand 14X23S*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.EG-004(Q)	Diff Press	Q-Grp A			
OP-IS.EG-004(Q)	Flow	Q-Grp A			
OP-IS.EG-004(Q)	Vibration	Q-Grp A			
OP-IS.EG-004(Q)	Diff Press	2YR-CPT			
OP-IS.EG-004(Q)	Flow	2YR-CPT			
OP-IS.EG-004(Q)	Vibration	2YR-CPT			

10-P-217	**HPCI BOOSTER PUMP**					
GROUP B						
M56-1	*HPCI Pump Turbine*	*E6*	*2*	*Centrifugal*	*Turbine*	*Byron-Jackson/Borg Warner Dwg 1F-6520*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BJ-001(Q)	Diff Press	Q-Grp B			
OP-IS.BJ-001(Q)	Flow	Q-Grp B		P-01	
OP-IS.BJ-001(Q)	Speed	Q-Grp B			
OP-IS.BJ-001(Q)	Diff Press	2YR-CPT			
OP-IS.BJ-001(Q)	Flow	2YR-CPT		P-01	
OP-IS.BJ-001(Q)	Speed	2YR-CPT			
OP-IS.BJ-001(Q)	Vibration	2YR-CPT			

1A-P-228	**HPCI JOCKEY PUMP**					
GROUP A						
M56-1	*HPCI Pump Turbine*	*F5*	*2*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1430600*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
OP-IS.BJ-002(Q)	Diff Press	Q-Grp A			
OP-IS.BJ-002(Q)	Flow	Q-Grp A			
OP-IS.BJ-002(Q)	Vibration	Q-Grp A			
OP-IS.BJ-002(Q)	Diff Press	2YR-CPT			
OP-IS.BJ-002(Q)	Flow	2YR-CPT			
OP-IS.BJ-002(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1B-P-228	**RCIC JOCKEY PUMP**					
GROUP A						
M50-1	*RCIC Pump Turbine*	*E5*	*2*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1430600*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.BD-002(Q)	Diff Press	Q-Grp A			
. OP-IS.BD-002(Q)	Flow	Q-Grp A			
. OP-IS.BD-002(Q)	Vibration	Q-Grp A			
. OP-IS.BD-002(Q)	Diff Press	2YR-CPT			
. OP-IS.BD-002(Q)	Flow	2YR-CPT			
. OP-IS.BD-002(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1A-P-400	**CONTROL AREA CHILL WATER PUMP A**					
GROUP A						
M90-1	*Aux Bldg Control Area Chilled Water Sys*	*D4*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1431000*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.GJ-001(Q)	Diff Press	Q-Grp A			
. OP-IS.GJ-001(Q)	Flow	Q-Grp A			
. OP-IS.GJ-001(Q)	Vibration	Q-Grp A			
. OP-IS.GJ-001(Q)	Diff Press	2YR-CPT			
. OP-IS.GJ-001(Q)	Flow	2YR-CPT			
. OP-IS.GJ-001(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1B-P-400	**CONTROL AREA CHILL WATER PUMP B**					
GROUP A						
M90-1	*Aux Bldg Control Area Chilled Water Sys*	*D4*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1431000*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.GJ-002(Q)	Diff Press	Q-Grp A			
. OP-IS.GJ-002(Q)	Flow	Q-Grp A			
. OP-IS.GJ-002(Q)	Vibration	Q-Grp A			
. OP-IS.GJ-002(Q)	Diff Press	2YR-CPT			
. OP-IS.GJ-002(Q)	Flow	2YR-CPT			
. OP-IS.GJ-002(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1A-P-401	**DIESEL FUEL OIL TRANSFER PUMP A**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*C7*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-001(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-001(Q)	Flow	Q-Grp B			
. OP-IS.JE-001(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-001(Q)	Flow	2YR-CPT			
. OP-IS.JE-001(Q)	Vibration	2YR-CPT			

1B-P-401	**DIESEL FUEL OIL TRANSFER PUMP B**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*A7*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-002(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-002(Q)	Flow	Q-Grp B			
. OP-IS.JE-002(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-002(Q)	Flow	2YR-CPT			
. OP-IS.JE-002(Q)	Vibration	2YR-CPT			

1C-P-401	**DIESEL FUEL OIL TRANSFER PUMP C**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*C4*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-003(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-003(Q)	Flow	Q-Grp B			
. OP-IS.JE-003(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-003(Q)	Flow	2YR-CPT			
. OP-IS.JE-003(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1D-P-401	**DIESEL FUEL OIL TRANSFER PUMP D**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*A4*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-004(Q)	Diff Press	Q Grp B			
. OP-IS.JE-004(Q)	Flow	Q Grp B			
. OP-IS.JE-004(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-004(Q)	Flow	2YR-CPT			
. OP-IS.JE-004(Q)	Vibration	2YR-CPT			

1E-P-401	**DIESEL FUEL OIL TRANSFER PUMP E**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*C5*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-005(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-005(Q)	Flow	Q-Grp B			
. OP-IS.JE-005(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-005(Q)	Flow	2YR-CPT			
. OP-IS.JE-005(Q)	Vibration	2YR-CPT			

1F-P-401	**DIESEL FUEL OIL TRANSFER PUMP F**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*A5*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-006(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-006(Q)	Flow	Q-Grp B			
. OP-IS.JE-006(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-006(Q)	Flow	2YR-CPT			
. OP-IS.JE-006(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1G-P-401	**DIESEL FUEL OIL TRANSFER PUMP G**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*C2*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-007(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-007(Q)	Flow	Q-Grp B			
. OP-IS.JE-007(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-007(Q)	Flow	2YR-CPT			
. OP-IS.JE-007(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1H-P-401	**DIESEL FUEL OIL TRANSFER PUMP H**					
GROUP B						
M30-1	*Diesel Engine Auxiliary Systems Fuel Oil*	*A2*	*3*	*Centrifugal*	*Motor*	*Chem Pump Div / Crane MDE1251300*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.JE-008(Q)	Diff Press	Q-Grp B			
. OP-IS.JE-008(Q)	Flow	Q-Grp B			
. OP-IS.JE-008(Q)	Diff Press	2YR-CPT			
. OP-IS.JE-008(Q)	Flow	2YR-CPT			
. OP-IS.JE-008(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1A-P-414	**SAFETY PANEL ROOM CHILL WATER PUMP A**					
GROUP A						
M90-1	*Aux Bldg Chilled Wtr Sys-Control Area*	*G6*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1430900*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.GJ-003(Q)	Diff Press	Q-Grp A			
. OP-IS.GJ-003(Q)	Flow	Q-Grp A			
. OP-IS.GJ-003(Q)	Vibration	Q-Grp A			
. OP-IS.GJ-003(Q)	Diff Press	2YR-CPT			
. OP-IS.GJ-003(Q)	Flow	2YR-CPT			
. OP-IS.GJ-003(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1B-P-414	**SAFETY PANEL ROOM CHILL WATER PUMP B**					
GROUP A						
M90-1	*Aux Bldg Chilled Wtr Sys-Control Area*	*C6*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler MDE1430900*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.GJ-004(Q)	Diff Press	Q-Grp A			
. OP-IS.GJ-004(Q)	Flow	Q-Grp A			
. OP-IS.GJ-004(Q)	Vibration	Q-Grp A			
. OP-IS.GJ-004(Q)	Diff Press	2YR- CPT			
. OP-IS.GJ-004(Q)	Flow	2YR- CPT			
. OP-IS.GJ-004(Q)	Vibration	2YR- CPT			

1A-P-502	**SERVICE WATER PUMP A**					
GROUP A						
M10-1	*Service Water*	*E7*	*3*	*Vertical Line Shaft Centrifugal*	*Motor*	*Hayward Tyler MDE1255100*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EA-001(Q)	Diff Press	Q-Grp A			
. OP-IS.EA-001(Q)	Flow	Q-Grp A			
. OP-IS.EA-001(Q)	Vibration	Q-Grp A			
. OP-IS.EA-001(Q)	Diff Press	2YR-CPT			
. OP-IS.EA-001(Q)	Flow	2YR-CPT			
. OP-IS.EA-001(Q)	Vibration	2YR-CPT			

1B-P-502	**SERVICE WATER PUMP B**					
GROUP A						
M10-1	*Service Water*	*E4*	*3*	*Vertical Line Shaft Centrifugal*	*Motor*	*Hayward Tyler MDE1255100*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EA-002(Q)	Diff Press	Q-Grp A			
. OP-IS.EA-002(Q)	Flow	Q-Grp A			
. OP-IS.EA-002(Q)	Vibration	Q-Grp A			
. OP-IS.EA-002(Q)	Diff Press	2YR-CPT			
. OP-IS.EA-002(Q)	Flow	2YR-CPT			
. OP-IS.EA-002(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1C-P-502	**SERVICE WATER PUMP C**					
GROUP A						
M10-1	*Service Water*	*E6*	*3*	*Vertical Line Shaft Centrifugal*	*Motor*	*Hayward Tyler MDE1255100*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EA-003(Q)	Diff Press	Q-Grp A			
. OP-IS.EA-003(Q)	Flow	Q-Grp A			
. OP-IS.EA-003(Q)	Vibration	Q-Grp A			
. OP-IS.EA-003(Q)	Diff Press	2YR-CPT			
. OP-IS.EA-003(Q)	Flow	2YR-CPT			
. OP-IS.EA-003(Q)	Vibration	2YR-CPT			

1D-P-502	**SERVICE WATER PUMP D**					
GROUP A						
M10-1	*Service Water*	*E3*	*3*	*Vertical Line Shaft Centrifugal*	*Motor*	*Hayward Tyler MDE1255100*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EA-004(Q)	Diff Press	Q-Grp A			
. OP-IS.EA-004(Q)	Flow	Q-Grp A			
. OP-IS.EA-004(Q)	Vibration	Q-Grp A			
. OP-IS.EA-004(Q)	Diff Press	2YR-CPT			
. OP-IS.EA-004(Q)	Flow	2YR-CPT			
. OP-IS.EA-004(Q)	Vibration	2YR-CPT			

1A-P-507	**SCREEN WASH BOOSTER PUMP A**					
GROUP A						
M10-1	*Service Water*	*D7*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler N3(BH3) 3X4X12*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EP-001(Q)	Diff Press	Q-Grp A			
. OP-IS.EP-001(Q)	Flow	Q-Grp A			
. OP-IS.EP-001(Q)	Vibration	Q-Grp A			
. OP-IS.EP-001(Q)	Diff Press	2YR-CPT			
. OP-IS.EP-001(Q)	Flow	2YR-CPT			
. OP-IS.EP-001(Q)	Vibration	2YR-CPT			

PUMP NO / P + ID	PUMP DESCRIPTION / P + ID Name	Drawing Coordinates	ASME Class	Pump Type	Driver	Mfg Model ID
1B-P-507	**SCREEN WASH BOOSTER PUMP B**					
GROUP A						
M10-1	*Service Water*	*D4*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler N3(BH3) 3X4X12*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EP-002(Q)	Diff Press	Q-Grp A			
. OP-IS.EP-002(Q)	Flow	Q-Grp A			
. OP-IS.EP-002(Q)	Vibration	Q-Grp A			
. OP-IS.EP-002(Q)	Diff Press	2YR-CPT			
. OP-IS.EP-002(Q)	Flow	2YR-CPT			
. OP-IS.EP-002(Q)	Vibration	2YR-CPT			

1C-P-507	**SCREEN WASH BOOSTER PUMP C**					
GROUP A						
M10-1	*Service Water*	*D6*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler N3(BH3) 3X4X12*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EP-003(Q)	Diff Press	Q-Grp A			
. OP-IS.EP-003(Q)	Flow	Q-Grp A			
. OP-IS.EP-003(Q)	Vibration	Q-Grp A			
. OP-IS.EP-003(Q)	Diff Press	2YR-CPT			
. OP-IS.EP-003(Q)	Flow	2YR-CPT			
. OP-IS.EP-003(Q)	Vibration	2YR-CPT			

1D-P-507	**SCREEN WASH BOOSTER PUMP D**					
GROUP A						
M10-1	*Service Water*	*D3*	*3*	*Centrifugal*	*Motor*	*Hayward Tyler N3(BH3) 3X4X12*

TEST PROC	TEST TYPE	TEST FREQ	EXCEPTION	TECH POS	RECUR
. OP-IS.EP-004(Q)	Diff Press	Q-Grp A			
. OP-IS.EP-004(Q)	Flow	Q-Grp A			
. OP-IS.EP-004(Q)	Vibration	Q-Grp A			
. OP-IS.EP-004(Q)	Diff Press	2YR-CPT			
. OP-IS.EP-004(Q)	Flow	2YR-CPT			
. OP-IS.EP-004(Q)	Vibration	2YR-CPT			

TABLE 3

VALVE TEST TABLE

System: AB
MAIN STEAM AND DRAINS

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABHV-F016	1	M41-1	1	E4	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.AB-0101(Q)	
INBD MSIV SEAT DRAIN HEADER INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.AB-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.AB-0101(Q)	
1ABHV-F019	1	M41-1	1	E3	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.AB-0101(Q)	
INBD MSIV SEAT DRAIN HEADER OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.AB-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.AB-0101(Q)	
1ABHV-F022A	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE A INBD MAIN STEAM ISOLATION VALVE													FSTC	DI/RF	RJ-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F022B	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE B INBD MAIN STEAM ISOLATION VALVE													FSTC	DI/RF	RJ-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F022C	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE C INBD MAIN STEAM ISOLATION VALVE													FSTC	DI/RF	RJ-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F022D	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE D INBD MAIN STEAM ISOLATION VALVE													FSTC	DI/RF	RJ-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F028A	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE A OTBD MAIN STEAM ISOLATION VALVE													FSTC	CS	CS-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	

System: AB
MAIN STEAM AND DRAINS

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABHV-F028B	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE B OTBD MAIN STEAM ISOLATION VALVE													FSTC	CS	CS-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F028C	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE C OTBD MAIN STEAM ISOLATION VALVE													FSTC	CS	CS-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F028D	1	M41-1	1	F4	A	ACTIVE	26	AO	GB	O	C	C	FSC	CS	CS-01	OP-IS.AB-0102(Q)	
STEAM LINE D OTBD MAIN STEAM ISOLATION VALVE													FSTC	CS	CS-01	OP-IS.AB-0103(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AB-0102(Q)	
													STC	CS	CS-01	OP-IS.AB-0102(Q)	
1ABHV-F071	2	M41-1	2	F4	B	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.AB-0101(Q)	
STEAM HEADER DOWNSTREAM DRAIN ISO VALVE													PIT	2YR		OP-IS.AB-0102(Q)	
													STC	Q		OP-IS.AB-0101(Q)	
1ABPSV-4500A	3	M41-1	2	C5	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013A TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500B	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013B TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500C	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013C TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500D	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013D TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500E	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013E TAILPIPE VACUUM RELIEF VALVE																	

System: AB
MAIN STEAM AND DRAINS

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABPSV-4500F	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013F TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500G	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013G TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500H	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013H TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500J	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013J TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500K	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013K TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500L	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013L TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500M	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013M TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500P	3	M41-1	2	A6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013P TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-4500R	3	M41-1	2	A6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013R TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F013F	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013G	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION ..	PROCEDURE	RECUR TASK
1ABPSV-F013H	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013J	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013K	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013L	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013M	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013P	1	M41-1	2	A8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F013R	1	M41-1	2	A8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF VALVE																	
1ABPSV-F037A	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013A TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037B	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013B TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037C	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013C TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037D	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013D TAILPIPE VACUUM RELIEF VALVE																	

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1ABPSV-F037E	3	M41-1	2	C6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
ADS 1SNPSV-F013E TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037F	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013F TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037G	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013G TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037H	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013H TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037J	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013J TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037K	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013K TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037L	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013L TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037M	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013M TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037P	3	M41-1	2	B6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013P TAILPIPE VACUUM RELIEF VALVE																	
1ABPSV-F037R	3	M41-1	2	A6	C	ACTIVE	6	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SRV 1ABPSV-F013R TAILPIPE VACUUM RELIEF VALVE																	
1ABV-043	3	M41-1	2	C5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
ADS ACCUMULATOR A-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	

CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABV-044	3	M41-1	2	C5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
ADS ACCUMULATOR B-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-045	3	M41-1	2	C5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
ADS ACCUMULATOR C-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-046	3	M41-1	2	C5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
ADS ACCUMULATOR D-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-047	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR J-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-048	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR F-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-049	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR G-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-050	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR H-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-051	3	M41-1	1	G4	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	RF	RJ-03	OP-IS.AB-0102(Q)	
INBD MSIV NITROGEN SUPPLY CHECK VALVE													CTC	RF	RJ-03	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 2 Inboard MSIV Accumulators																	
1ABV-052	3	M41-1	1	G4	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	RF	RJ-03	OP-IS.AB-0102(Q)	
INBD MSIV NITROGEN SUPPLY CHECK VALVE													CTC	RF	RJ-03	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 2 Inboard MSIV Accumulators																	

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABV-053	3	M41-1	1	G4	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	RF	RJ-03	OP-IS.AB-0102(Q)	
INBD MSIV NITROGEN SUPPLY CHECK VALVE													CTC	RF	RJ-03	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 2 Inboard MSIV Accumulators																	
1ABV-054	3	M41-1	1	G4	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	RF	RJ-03	OP-IS.AB-0102(Q)	
INBD MSIV NITROGEN SUPPLY CHECK VALVE													CTC	RF	RJ-03	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 2 Inboard MSIV Accumulators																	
1ABV-055	3	M41-1	1	G3	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	CS	CS-02	OP-IS.AB-0102(Q)	
OTBD MSIV INSTRUMENT AIR SUPPLY CHECK VALVE													CTC	CS	CS-02	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 3 Outboard MSIV Accumulators																	
1ABV-056	3	M41-1	1	G3	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	CS	CS-02	OP-IS.AB-0102(Q)	
OTBD MSIV INSTRUMENT AIR SUPPLY CHECK VALVE													CTC	CS	CS-02	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 3 Outboard MSIV Accumulators																	
1ABV-057	3	M41-1	1	G3	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	CS	CS-02	OP-IS.AB-0102(Q)	
OTBD MSIV INSTRUMENT AIR SUPPLY CHECK VALVE													CTC	CS	CS-02	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 3 Outboard MSIV Accumulators																	
1ABV-058	3	M41-1	1	G3	C	ACTIVE	1	SELF	CK	C	C	N/A	BDO	CS	CS-02	OP-IS.AB-0102(Q)	
OTBD MSIV INSTRUMENT AIR SUPPLY CHECK VALVE													CTC	CS	CS-02	OP-IS.AB-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 3 Outboard MSIV Accumulators																	
1ABV-109	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR R-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-110	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR K-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-111	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR L-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABV-112	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR M-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-113	3	M41-1	2	A5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR P-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABV-114	3	M41-1	2	B5	AC	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	RF	RJ-02	RA-IS.ZZ-0011(Q)	
SRV ACCUMULATOR E-T210 NITROGEN SUPPLY CHECK VALVE													CTO	RF	RJ-02	OP-IS.AB-0102(Q)	
													LT	18 MO		RA-IS.ZZ-0011(Q)	
CMP Active: NO CMP: Yes CMP Group 1 MS SRV Accumulators																	
1ABXV-3666A	1	M41-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0010(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0010(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1ABXV-3666B	1	M41-1	2	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0038(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0038(Q)	
													PIT	TS	CMP	IC-FT.AB-0038(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1ABXV-3666C	1	M41-1	2	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0035(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0035(Q)	
													PIT	TS	CMP	IC-FT.AB-0035(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1ABXV-3666D	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0040(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0040(Q)	
													PIT	TS	CMP	IC-FT.AB-0040(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1ABXV-3667A	1	M41-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0034(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0034(Q)	
													PIT	TS	CMP	IC-FT.AB-0034(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1ABXV-3667B	1	M41-1	2	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0037(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0037(Q)	
													PIT	TS	CMP	IC-FT.AB-0037(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: AB
MAIN STEAM AND DRAINS

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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABXV-3667C	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0036(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0036(Q)	
													PIT	TS	CMP	IC-FT.AB-0036(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3667D	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0039(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0039(Q)	
													PIT	TS	CMP	IC-FT.AB-0039(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3668A	1	M41-1	1	E4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0034(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0034(Q)	
													PIT	TS	CMP	IC-FT.AB-0034(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3668B	1	M41-1	2	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0037(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0037(Q)	
													PIT	TS	CMP	IC-FT.AB-0037(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3668C	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0036(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0036(Q)	
													PIT	TS	CMP	IC-FT.AB-0036(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3668D	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0039(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0039(Q)	
													PIT	TS	CMP	IC-FT.AB-0039(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3669A	1	M41-1	1	E3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0010(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0010(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0010(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3669B	1	M41-1	2	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0038(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0038(Q)	
													PIT	TS	CMP	IC-FT.AB-0038(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1ABXV-3669C	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0035(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0035(Q)	
													PIT	TS	CMP	IC-FT.AB-0035(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: AB
MAIN STEAM AND DRAINS

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1ABXV-3669D	1	M41-1	2	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.AB-0040(Q)	
MAIN STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.AB-0040(Q)	
													PIT	TS	CMP	IC-FT.AB-0040(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: AE
FEEDWATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1AEHV-4144	2	M41-1	1	E8	B	ACTIVE	2	MO	GB	C	O	N/A	FSO	Q		OP-IS.AE-0101(Q)	
FEEDWATER LINE CROSS-CONNECT VALVE													PIT	2YR		OP-IS.AE-0102(Q)	
													STO	Q		OP-IS.AE-0101(Q)	
1AEHV-F032A	2	M41-1	1	D8	AC	ACTIVE	24	S/M	SCK	O	C	N/A	BDO	Q		OP-IS.AE-0101(Q)	
FEEDWATER LINE A HEADER STOP CHECK VALVE													CTC	CS	CS-05	OP-IS.AE-0102(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AE-0102(Q)	
													STC	CS	CS-05	OP-IS.AE-0102(Q)	
1AEHV-F032B	2	M41-1	1	E8	AC	ACTIVE	24	S/M	SCK	O	C	N/A	BDO	Q		OP-IS.AE-0101(Q)	
FEEDWATER LINE B HEADER STOP CHECK VALVE													CTC	CS	CS-05	OP-IS.AE-0102(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AE-0102(Q)	
													STC	CS	CS-05	OP-IS.AE-0102(Q)	
1AEHV-F039	2	M44-1	1	H6	AC	ACTIVE	4	S/MO	SCK	O	C	N/A	BDO	Q		CH-TI.ZZ-0013(Q)	
REACTOR WATER CLEANUP SYSTEM RETURN CHECK VALVE													CTC	CS	CS-21	OP-IS.BG-0102(Q)	
													FSC	CS	CS-21	OP-IS.BG-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 4 Cleanup IV (But MOV as well - Relief for										CIV: Yes			LJ	18 MO		RA-IS.ZZ-0010(Q)	
													STC	CS	CS-21	OP-IS.BG-0102(Q)	
1AEHV-F074A	1	M41-1	1	D7	AC	ACTIVE	24	SELF	CK	O	O/	N/A	CTC	CS	CS-06	RA-IS.ZZ-0010(Q)	
FEEDWATER LINE A OTBD CONT ISO CHECK VALVE													CTO	Q		OP-IS.AE-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AE-0102(Q)	
1AEHV-F074B	1	M41-1	1	E7	AC	ACTIVE	24	SELF	CK	O	O/	N/A	CTC	CS	CS-06	RA-IS.ZZ-0010(Q)	
FEEDWATER LINE B OTBD CONT ISO CHECK VALVE													CTO	Q		OP-IS.AE-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.AE-0102(Q)	
1AEV-003	1	M41-1	1	E7	AC	ACTIVE	24	SELF	CK	O	O/	N/A	CTC	RF	RJ-04	RA-IS.ZZ-0010(Q)	
FEEDWATER LINE B INBD CONT ISO CHECK VALVE													CTO	Q		OP-IS.AE-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes							
1AEV-007	1	M41-1	1	D7	AC	ACTIVE	24	SELF	CK	O	O/	N/A	CTC	RF	RJ-04	RA-IS.ZZ-0010(Q)	
FEEDWATER LINE A INBD CONT ISO CHECK VALVE													CTO	Q		OP-IS.AE-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes							

System: AE
FEEDWATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1AEV-127	2	M44-1	1	H7	C	ACTIVE	4	SELF	MCK	O/C	C	N/A	BDO	CS	CS-04	OP-IS.AE-0102(Q)	
REACTOR WATER CLEANUP RETURN TO FW LP A CHECK VALVE													CTC	CS	CS-04	OP-IS.AE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 5 Cleanup - HPCI/RCIC Non-Return CV's																	
1AEV-128	2	M44-1	1	H7	C	ACTIVE	4	SELF	MCK	O/C	C	N/A	BDO	CS	CS-04	OP-IS.AE-0102(Q)	
REACTOR WATER CLEANUP RETURN TO FW LP B CHECK VALVE													CTC	CS	CS-04	OP-IS.AE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 5 Cleanup - HPCI/RCIC Non-Return CV's																	

System: AP
CONDENSATE STORAGE & TRANSFER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1APHV-F011	2	M55-1	1	F5	B	ACTIVE	10	MO	GT	C	C	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI/RCIC TEST RETURN TO CST ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
1APV-036	2	M55-1	1	E5	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BJ-0101(Q)	
CST FILL SUPPLY TO HPCI CHECK VALVE													CTC	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 6 "3" HPCI/RCIC Condensate Transfer Keep-																	
1APV-037	2	M55-1	1	E5	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BJ-0101(Q)	
CST FILL SUPPLY TO HPCI CHECK VALVE													CTC	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 6 "3" HPCI/RCIC Condensate Transfer Keep-																	
1APV-039	2	M52-1	1	G4	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BE-0101(Q)	
CST SUPPLY TO CORE SPRAY LOOP A CHECK VALVE													CTC	Q		OP-IS.BE-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 7 3 Core Spray Condensate Transfer Keep-Fill																	
1APV-040	2	M52-1	1	G4	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BE-0101(Q)	
CST SUPPLY TO CORE SPRAY LOOP A CHECK VALVE													CTC	Q		OP-IS.BE-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 7 "3" Core Spray Condensate Transfer Keep-																	
1APV-042	2	M51-1	2	H4	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
CST SUPPLY TO RHR LOOP A CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-043	2	M51-1	2	G4	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
CST SUPPLY TO RHR LOOP A CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-045	2	M51-1	2	H4	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0103(Q)	
CST SUPPLY TO LPCI LOOP C CHECK VALVE													CTC	Q		OP-IS.BC-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-046	2	M51-1	2	G4	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0103(Q)	
CST SUPPLY TO LPCI LOOP C CHECK VALVE													CTC	Q		OP-IS.BC-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	

System: AP
CONDENSATE STORAGE & TRANSFER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1APV-050	2	M49-1	1	C5	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BD-0101(Q)	
CST FILL SUPPLY TO RCIC CHECK VALVE													CTC	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 6 "3" HPCI/RCIC Condensate Transfer Keep-																	
1APV-051	2	M49-1	1	C5	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BD-0101(Q)	
CST FILL SUPPLY TO RCIC CHECK VALVE													CTC	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 6 "3" HPCI/RCIC Condensate Transfer Keep-																	
1APV-054	2	M51-1	1	H6	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
CST SUPPLY TO RHR LOOP B CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-055	2	M51-1	1	H6	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
CST SUPPLY TO RHR LOOP B CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-057	2	M51-1	1	H6	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0104(Q)	
CST SUPPLY TO LPCI LOOP D CHECK VALVE													CTC	Q		OP-IS.BC-0104(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-058	2	M51-1	1	H6	C	ACTIVE	4	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BC-0104(Q)	
CST SUPPLY TO LPCI LOOP D CHECK VALVE													CTC	Q		OP-IS.BC-0104(Q)	
CMP Active: NO CMP: Yes CMP Group 8 4" RHR/LPCI Condensate Transfer Keep-Fill																	
1APV-060	2	M52-1	1	G4	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BE-0102(Q)	
CST SUPPLY TO CORE SPRAY LOOP B CHECK VALVE													CTC	Q		OP-IS.BE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 7 "3" Core Spray Condensate Transfer Keep-																	
1APV-061	2	M52-1	1	G4	C	ACTIVE	3	SELF	MCK	C	C	N/A	BDO	Q		OP-IS.BE-0102(Q)	
CST SUPPLY TO CORE SPRAY LOOP B CHECK VALVE													CTC	Q		OP-IS.BE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 7 3 Core Spray Condensate Transfer Keep-Fill																	

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBSV-4310	1	M43-1	1	H4	A	ACTIVE	0.75	SO	GB	O	C	C	FSC	Q		OP-IS.BB-0101(Q)	
REACTOR RECIRC WATER SAMPLE INBD CONT ISO VALVE													FSTC	Q		OP-IS.BB-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BB-0101(Q)	
													STC	Q		OP-IS.BB-0101(Q)	
1BBSV-4311	1	M43-1	1	H3	A	ACTIVE	0.75	SO	GB	O	C	C	FSC	Q		OP-IS.BB-0101(Q)	
REACTOR RECIRC WATER SAMPLE OTBD CONT ISO VALVE													FSTC	Q		OP-IS.BB-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BB-0101(Q)	
													STC	Q		OP-IS.BB-0101(Q)	
1BBV-043	2	M43-1	1	C3	AC	ACTIVE	0.75	SELF	CK	O	C	N/A	BDO	Q		OP-DL.ZZ-0004(Q)	
RECIRC PUMP A SEAL WATER INBD CONT ISO CHECK VALVE													CTC	RF	RJ-06	OP-IS.BB-0102(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 9 Recirc Pump Seal										CIV: Yes							
1BBV-047	2	M43-1	1	B3	AC	ACTIVE	0.75	SELF	CK	O	C	N/A	BDO	Q		OP-DL.ZZ-0004(Q)	
RECIRC PUMP B SEAL WATER INBD CONT ISO CHECK VALVE													CTC	RF	RJ-06	OP-IS.BB-0102(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 9 Recirc Pump Seal										CIV: Yes							
1BBV-232	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0055(Q)	
REACTOR VESSEL LEVEL INST A FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0055(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-233	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0055(Q)	
REACTOR VESSEL LEVEL INST A FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0055(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-239	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0056(Q)	
REACTOR VESSEL LEVEL INST B FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0056(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-240	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0056(Q)	
REACTOR VESSEL LEVEL INST B FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0056(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBV-246	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0057(Q)	
REACTOR VESSEL LEVEL INST C FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0057(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-247	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0057(Q)	
REACTOR VESSEL LEVEL INST C FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0057(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-253	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0058(Q)	
REACTOR VESSEL LEVEL INST D FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0058(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBV-254	2	M46-1	2	B7	C	ACTIVE	0.37	SELF	CK	O	C	N/A	BDO	RF	RJ-07	IC-FT.ZZ-0058(Q)	
REACTOR VESSEL LEVEL INST D FILL CHECK VALVE													CTC	RF	RJ-07	IC-FT.ZZ-0058(Q)	
CMP Active: NO CMP: Yes CMP Group 10 CRD Ref LEG																	
1BBXV-3621	1	M42-1	1	G4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1BBXV-3649	1	M41-1	1	F7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL HEAD SEAL PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1BBXV-3725	1	M42-1	1	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1BBXV-3726A	1	M42-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
ECCS INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1BBXV-3726B	1	M42-1	1	F4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
ECCS INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3727A	1	M42-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3727B	1	M42-1	1	F4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3728A	1	M42-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3728B	1	M42-1	1	F4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3729A	1	M42-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3729B	1	M42-1	1	E4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3730A	1	M42-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3730B	1	M42-1	1	E4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3731A	1	M42-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3731B	1	M42-1	1	E4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
REACTOR VESSEL LEVEL INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732A	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732B	1	M42-1	1	E4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732C	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732D	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732E	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732F	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732G	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732H	1	M42-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3732J	1	M42-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732K	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732L	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732M	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732N	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732P	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732R	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732S	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732T	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3732U	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732V	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3732W	1	M42-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3734A	1	M42-1	1	D6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3734B	1	M42-1	1	D4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3734C	1	M42-1	1	B7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3734D	1	M42-1	1	B7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3737A	1	M42-1	1	D4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
CORE PLATE DIFF PRESS INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3737B	1	M42-1	1	D6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
CRD FLOW CONTROL INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3738A	1	M42-1	1	C6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3738B	1	M42-1	1	C4	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
JET PUMP FLOW INSTRUMENTATION LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3783	1	M43-1	1	C8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP A SEAL PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3785	1	M43-1	1	B8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP A SEAL PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3787	1	M43-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP B SEAL PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3789	1	M43-1	1	A8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP B SEAL PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3801A	1	M43-1	1	G3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3801B	1	M43-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3801C	1	M43-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3801D	1	M43-1	1	E3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3802A	1	M43-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3802B	1	M43-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3802C	1	M43-1	1	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3802D	1	M43-1	1	E3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3803A	1	M43-1	1	E3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3803B	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3803C	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3803D	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BB
REACTOR RECIRCULATION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BBXV-3804A	1	M43-1	1	E3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3804B	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3804C	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3804D	1	M43-1	1	D3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3820	1	M43-1	1	D7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP A DIFF PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3821	1	M43-1	1	D8	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP A DIFF PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3826	1	M43-1	1	A3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP B DIFF PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BBXV-3827	1	M43-1	1	A3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RECIRC PUMP B DIFF PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCHV-5055A	2	M58-1	1	C7	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.BC-0101(Q)	
RHR TO HYDROGEN RECOMBINER A ISOLATION VALVE													PIT	2YR		OP-IS.BC-0101(Q)	
													STO	Q		OP-IS.BC-0101(Q)	
1BCHV-5055B	2	M58-1	1	A7	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.BC-0102(Q)	
RHR TO HYDROGEN RECOMBINER B ISOLATION VALVE													PIT	2YR		OP-IS.BC-0102(Q)	
													STO	Q		OP-IS.BC-0102(Q)	
1BCHV-F003A	2	M51-1	2	D6	B	ACTIVE	18	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BC-0101(Q)	
RHR HX A OUTLET MOV													FSO	Q		OP-IS.BC-0101(Q)	
													PIT	2YR		OP-IS.BC-0101(Q)	
													STC	Q		OP-IS.BC-0101(Q)	
													STO	Q		OP-IS.BC-0101(Q)	
1BCHV-F003B	2	M51-1	1	E3	B	ACTIVE	18	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BC-0102(Q)	
RHR HX B OUTLET MOV													FSO	Q		OP-IS.BC-0102(Q)	
													PIT	2YR		OP-IS.BC-0102(Q)	
													STC	Q		OP-IS.BC-0102(Q)	
													STO	Q		OP-IS.BC-0102(Q)	
1BCHV-F004A	2	M51-1	2	C3	B	ACTIVE	24	MO	GT	O	C	N/A	FSC	Q		OP-IS.BC-0101(Q)	
RHR PMP A SUPPRESSION POOL SUCTION ISOLATION VALVE													PIT	2YR		OP-IS.BC-0101(Q)	
													STC	Q		OP-IS.BC-0101(Q)	
										CIV: Yes							
1BCHV-F004B	2	M51-1	1	C7	B	ACTIVE	24	MO	GT	O	C	N/A	FSC	Q		OP-IS.BC-0102(Q)	
RHR PMP B SUPPRESSION POOL SUCTION ISOLATION VALVE													PIT	2YR		OP-IS.BC-0102(Q)	
													STC	Q		OP-IS.BC-0102(Q)	
										CIV: Yes							
1BCHV-F004C	2	M51-1	2	C2	B	ACTIVE	24	MO	GT	O	C	N/A	FSC	Q		OP-IS.BC-0103(Q)	
RHR PMP C SUPPRESSION POOL SUCTION ISOLATION VALVE													PIT	2YR		OP-IS.BC-0103(Q)	
													STC	Q		OP-IS.BC-0103(Q)	
										CIV: Yes							
1BCHV-F004D	2	M51-1	1	C7	B	ACTIVE	24	MO	GT	O	C	N/A	FSC	Q		OP-IS.BC-0104(Q)	
RHR PMP D SUPPRESSION POOL SUCTION ISOLATION VALVE													PIT	2YR		OP-IS.BC-0104(Q)	
													STC	Q		OP-IS.BC-0104(Q)	
										CIV: Yes							

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCHV-F006A *RHR PMP A SUCTION FROM RECIRC*	2	M51-1	2	B2	B	ACTIVE	18	MO	GT	C	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F006B *RHR PMP B SUCTION FROM RECIRC*	2	M51-1	1	C7	B	ACTIVE	18	MO	GT	C	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F007A *RHR PMP A MIN FLOW VALVE*	2	M51-1	2	D4	B	ACTIVE	4	MO	GT	O	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F007B *RHR PMP B MIN FLOW VALVE*	2	M51-1	1	D6	B	ACTIVE	4	MO	GT	O CIV: Yes	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F007C *RHR PMP C MIN FLOW VALVE*	2	M51-1	2	D4	B	ACTIVE	4	MO	GT	O CIV: Yes	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0103(Q) OP-IS.BC-0103(Q) OP-IS.BC-0103(Q) OP-IS.BC-0103(Q) OP-IS.BC-0103(Q)	
1BCHV-F007D *RHR PMP D MIN FLOW VALVE*	2	M51-1	1	D5	B	ACTIVE	4	MO	GT	O CIV: Yes	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0104(Q) OP-IS.BC-0104(Q) OP-IS.BC-0104(Q) OP-IS.BC-0104(Q) OP-IS.BC-0104(Q)	

System: BC
RESIDUAL HEAT REMOVAL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCHV-F008	1	M51-1	1	E6	A	ACTIVE	20	MO	GT	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
B RECIRC TO RHR SUCTION OTBD ISOLATION VAVLE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	
1BCHV-F009	1	M51-1	1	E8	A	ACTIVE	20	MO	GT	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
B RECIRC TO RHR SUCTION INBD ISOLATION VALVE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LT	2YR		RA-IS.ZZ-0010(Q)	
											PIV: Yes		PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	
1BCHV-F010A	2	M51-1	2	D4	B	ACTIVE	18	MO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0103(Q)	
RHR LOOP C TEST RETURN ISOLATION VALVE													PIT	2YR		OP-IS.BC-0103(Q)	
													STC	Q		OP-IS.BC-0103(Q)	
										CIV: Yes							
1BCHV-F010B	2	M51-1	1	D5	B	ACTIVE	18	MO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0104(Q)	
RHR LOOP D TEST RETURN ISOLATION VALVE													PIT	2YR		OP-IS.BC-0104(Q)	
													STC	Q		OP-IS.BC-0104(Q)	
										CIV: Yes							
1BCHV-F015A	1	M51-1	2	E3	A	ACTIVE	12	MO	GB	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
RHR LOOP A RETURN TO RECIRC OTBD ISOLATION VALVE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCHV-F015B	1	M51-1	1	F6	A	ACTIVE	12	MO	GB	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
RHR LOOP B RETURN TO RECIRC OTBD ISOLATION VALVE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	
1BCHV-F016A	2	M51-1	2	G5	B	ACTIVE	16	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BC-0101(Q)	
RHR LOOP A OUTBOARD CONTAINMENT SPRAY VALVE													FSO	Q		OP-IS.BC-0101(Q)	
													PIT	2YR		OP-IS.BC-0101(Q)	
													STC	Q		OP-IS.BC-0101(Q)	
													STO	Q		OP-IS.BC-0101(Q)	
1BCHV-F016B	2	M51-1	1	G6	B	ACTIVE	16	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BC-0102(Q)	
RHR LOOP B OUTBOARD CONTAINMENT SPRAY VALVE													FSO	Q		OP-IS.BC-0102(Q)	
													PIT	2YR		OP-IS.BC-0102(Q)	
													STC	Q		OP-IS.BC-0102(Q)	
													STO	Q		OP-IS.BC-0102(Q)	
1BCHV-F017A	1	M51-1	2	F3	A	ACTIVE	12	MO	GT	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
RHR LOOP A LPCI INJECTION VALVE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	
1BCHV-F017B	1	M51-1	1	F6	A	ACTIVE	12	MO	GT	C	O/	N/A	FSC	CS	CS-07	OP-IS.BC-0105(Q)	
RHR LOOP B LPCI INJECTION VALVE													FSO	CS	CS-07	OP-IS.BC-0105(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BC-0105(Q)	
													STC	CS	CS-07	OP-IS.BC-0105(Q)	
													STO	CS	CS-07	OP-IS.BC-0105(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCHV-F017C *RHR LOOP C LPCI INJECTION VALVE*	1	M51-1	2	F3	A	ACTIVE	12	MO	GT	C CIV: Yes	O/ PIV: Yes	N/A	FSO LJ LT PIT STC STO	CS 2YR 2YR 2YR CS CS	CS-07 CS-07 CS-07	OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) OP-IS.BC-0105(Q)	
1BCHV-F017D *RHR LOOP D LPCI INJECTION VALVE*	1	M51-1	1	G7	A	ACTIVE	12	MO	GT	C CIV: Yes	O/ PIV: Yes	N/A	FSO LJ LT PIT STC STO	CS 2YR 2YR 2YR CS CS	CS-07 CS-07 CS-07	OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) OP-IS.BC-0105(Q)	
1BCHV-F021A *RHR LOOP A INBD CONTAINMENT SPRAY VALVE*	2	M51-1	2	G3	A	ACTIVE	16	MO	GT	C CIV: Yes	O/	N/A	FSC FSO LJ PIT STC STO	Q Q 2YR 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F021B *RHR LOOP B INBD CONTAINMENT SPRAY VALVE*	2	M51-1	1	G7	A	ACTIVE	16	MO	GT	C CIV: Yes	O/	N/A	FSC FSO LJ PIT STC STO	Q Q 2YR 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F024A *RHR LOOP A TEST RETURN VALVE*	2	M51-1	2	D4	B	ACTIVE	18	MO	GB	C CIV: Yes	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F024B *RHR LOOP B TEST RETURN VALVE*	2	M51-1	1	E6	B	ACTIVE	18	MO	GB	C CIV: Yes	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCHV-F027A *RHR LOOP A SUP POOL SPRAY*	2	M51-1	2	E3	A	ACTIVE	6	MO	GB	C CIV: Yes	O/	N/A	FSC FSO LJ PIT STC STO	Q Q 2YR 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F027B *RHR LOOP B SUP POOL SPRAY*	2	M51-1	1	E6	A	ACTIVE	6	MO	GB	C CIV: Yes	O/	N/A	FSC FSO LJ PIT STC STO	Q Q 2YR 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F040 *RHR LOOP B DISCH TO RADWASTE*	2	M51-1	1	F3	B	ACTIVE	4	MO	GB	C	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F041A *RHR LOOP A INJ LINE CHECK VALVE*	1	M51-1	2	F2	C	ACTIVE	12	SELF	TCK	C	O PIV: Yes	N/A	BDC CTO LT PIT	CS CS 2YR 2YR	CS-08 CS-08	OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
1BCHV-F041B *RHR LOOP B INJ LINE CHECK VALVE*	1	M51-1	1	F7	C	ACTIVE	12	SELF	TCK	C	O PIV: Yes	N/A	BDC CTO LT PIT	CS CS 2YR 2YR	CS-08 CS-08	OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
1BCHV-F041C *RHR LOOP C INJ LINE CHECK VALVE*	1	M51-1	2	F2	C	ACTIVE	12	SELF	TCK	C	O PIV: Yes	N/A	BDC CTO LT PIT	CS CS 2YR 2YR	CS-08 CS-08	OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
1BCHV-F041D *RHR LOOP D INJ LINE CHECK VALVE*	1	M51-1	1	G7	C	ACTIVE	12	SELF	TCK	C	O PIV: Yes	N/A	BDC CTO LT PIT	CS CS 2YR 2YR	CS-08 CS-08	OP-IS.BC-0105(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
1BCHV-F047A *RHR HX A INLET VALVE*	2	M51-1	2	C5	B	PASSIVE	18	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCHV-F047B *RHR HX B INLET VALVE*	2	M51-1	1	D4	B	PASSIVE	18	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
1BCHV-F048A *RHR HX A SHELL SIDE BYPASS*	2	M51-1	2	E5	B	ACTIVE	18	MO	BFY	O	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q) OP-IS.BC-0101(Q)	
1BCHV-F048B *RHR HX B SHELL SIDE BYPASS*	2	M51-1	1	E4	B	ACTIVE	18	MO	BFY	O	O/	N/A	FSC FSO PIT STC STO	Q Q 2YR Q Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F049 *RHR LOOP B DISCH TO LIQUID RADWASTE*	2	M51-1	1	F3	B	ACTIVE	4	MO	GT	C	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.BC-0102(Q) OP-IS.BC-0102(Q) OP-IS.BC-0102(Q)	
1BCHV-F050A *RHR LOOP A RETURN TO RECIRC CHECK VALVE*	1	M51-1	2	E2	C	ACTIVE	12	SELF	TCK	C	O	N/A PIV: Yes	BDC CTO LT	2YR CS 2YR	CS-08	RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q)	
1BCHV-F050B *RHR LOOP B RETURN TO RECIRC CHECK VALVE*	1	M51-1	1	F7	C	ACTIVE	12	SELF	TCK	C	O	N/A PIV: Yes	BDC CTO LT	2YR CS 2YR	CS-08	RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q) RA-IS.ZZ-0010(Q)	
1BCHV-F075 *SERVICE WATER TO RHR LOOP B SUPPLY*	2	M51-1	1	E3	B	PASSIVE	6	MO	GT	C	C	N/A	PIT	2YR		OP-IS.BC-0102(Q)	
1BCHV-F122A *RHR A RETURN TO RECIRC A BYPASS VALVE*	1	M51-1	2	E2	B	PASSIVE	2	AO	GB	C	C	N/A PIV: Yes	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
1BCHV-F122B *RHR B RETURN TO RECIRC B BYPASS VALVE*	1	M51-1	1	E7	B	PASSIVE	2	AO	GB	C	C	N/A PIV: Yes	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCHV-F146A *RHR A LPCI CHECK BYPASS VALVE*	1	M51-1	2	F2	B	PASSIVE	2	AO	GB	C	C	N/A	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
											PIV: Yes						
1BCHV-F146B *RHR B LPCI CHECK BYPASS VALVE*	1	M51-1	2	F2	B	PASSIVE	2	AO	GB	C	C	N/A	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
											PIV: Yes						
1BCHV-F146C *RHR C LPCI CHECK BYPASS VALVE*	1	M51-1	2	F2	B	PASSIVE	2	AO	GB	C	C	N/A	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
											PIV: Yes						
1BCHV-F146D *RHR D LPCI CHECK BYPASS VALVE*	1	M51-1	2	F2	B	PASSIVE	2	AO	GB	C	C	N/A	LT PIT	2YR 2YR		RA-IS.ZZ-0010(Q) OP-IS.BC-0105(Q)	
											PIV: Yes						
1BCPSV-4425 *SHUTDOWN COOLING SUCTION RELIEF VALVE*	1	M51-1	1	E8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	5YR		MD-GP.ZZ-0085(Q)	
1BCPSV-4431A *RHR HX A THERMAL RELIEF*	2	M51-1	2	C7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
											CIV: Yes						
1BCPSV-4431B *RHR HX B THERMAL RELIEF*	2	M51-1	1	C3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
											CIV: Yes						
1BCPSV-F025A *LPCI LOOP A HEADER RELIEF VALVE*	2	M51-1	2	F4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
											CIV: Yes						
1BCPSV-F025B *LPCI LOOP B HEADER RELIEF VALVE*	2	M51-1	1	F5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
											CIV: Yes						

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BCPSV-F025C	2	M51-1	2	F4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
LPCI LOOP C HEADER RELIEF VALVE										CIV: Yes							
1BCPSV-F025D	2	M51-1	1	G5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
LPCI LOOP D HEADER RELIEF VALVE										CIV: Yes							
1BCPSV-F029	2	M51-1	1	E6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR LOOP B SUCTION HEADER RELIEF VALVE																	
1BCPSV-F030A	2	M51-1	2	C3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR PMP A SUP POOL SUCTION RELIEF VALVE																	
1BCPSV-F030B	2	M51-1	1	C7	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR PMP B SUP POOL SUCTION RELIEF VALVE																	
1BCPSV-F030C	2	M51-1	2	C2	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR PMP C SUP POOL SUCTION RELIEF VALVE																	
1BCPSV-F030D	2	M51-1	1	C7	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR PMP D SUP POOL SUCTION RELIEF VALVE																	
1BCSV-F074	3	M10-1	2	B3	B	ACTIVE	1	SO	GB	O	C	C	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER MAKEUP HEADER AUTO DRAIN VALVE													FSTC	Q		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
1BCSV-F079A	2	M51-1	2	D7	B	ACTIVE	0.75	SO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0101(Q)	
RHR LOOP A SAMPLE ISOLATION VALVE													PIT	2YR		OP-IS.BC-0101(Q)	
													STC	Q		OP-IS.BC-0101(Q)	
1BCSV-F079B	2	M51-1	1	D2	B	ACTIVE	0.75	SO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0102(Q)	
RHR LOOP B SAMPLE ISOLATION VALVE													PIT	2YR		OP-IS.BC-0102(Q)	
													STC	Q		OP-IS.BC-0102(Q)	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCSV-F080A	2	M51-1	2	D7	B	ACTIVE	0.75	SO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0101(Q)	
RHR LOOP A SAMPLE ISOLATION VALVE													PIT	2YR		OP-IS.BC-0101(Q)	
													STC	Q		OP-IS.BC-0101(Q)	
1BCSV-F080B	2	M51-1	1	D2	B	ACTIVE	0.75	SO	GB	C	C	N/A	FSC	Q		OP-IS.BC-0102(Q)	
RHR LOOP B SAMPLE ISOLATION VALVE													PIT	2YR		OP-IS.BC-0102(Q)	
													STC	Q		OP-IS.BC-0102(Q)	
1BCV-002	2	M51-1	1	B5	C	ACTIVE	18	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BC-0104(Q)	
RHR PMP D OUTLET CHECK VALVE													CTO	Q		OP-IS.BC-0004(Q)	
1BCV-008	2	M51-1	1	C5	C	ACTIVE	18	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BC-0102(Q)	
RHR PMP B OUTLET CHECK VALVE													CTO	Q		OP-IS.BC-0003(Q)	
1BCV-030	2	M51-1	1	D6	C	ACTIVE	4	SELF	MCK	C	O	N/A	CTC	Q		OP-IS.BC-0102(Q)	
RHR PMP B MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BC-0102(Q)	
1BCV-033	2	M51-1	1	D5	C	ACTIVE	4	SELF	CK	C	O	N/A	CTC	Q		OP-IS.BC-0104(Q)	
RHR PMP D MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BC-0104(Q)	
1BCV-074	1	M51-1	1	F7	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP B RETURN TO RECIRC LOOP B																	
1BCV-075	1	M51-1	1	F8	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP B LPCI MANUAL ISOLATION VALVE																	
1BCV-076	1	M51-1	1	G8	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP D LPCI MANUAL ISOLATION VALVE																	
1BCV-078	1	M51-1	1	E8	B	PASSIVE	20	MAN	GT	O	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RECIRC LOOP B TO RHR SUPPLY MANUAL VALVE																	
1BCV-089	2	M51-1	1	C5	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
RHR LOOP B ECCS JOCKEY PMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	

CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCV-099	2	M51-1	2	B4	C	ACTIVE	18	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BC-0103(Q)	
RHR PMP C OUTLET CHECK VALVE													CTO	Q		OP-IS.BC-0002(Q)	
1BCV-105	2	M51-1	2	B4	C	ACTIVE	18	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BC-0101(Q)	
RHR PMP A OUTLET CHECK VALVE													CTO	Q		OP-IS.BC-0001(Q)	
1BCV-127	2	M51-1	2	D4	C	ACTIVE	4	SELF	MCK	C	O	N/A	CTC	Q		OP-IS.BC-0101(Q)	
RHR PMP A MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BC-0101(Q)	
1BCV-130	2	M51-1	2	D4	C	ACTIVE	4	SELF	MCK	C	O	N/A	CTC	Q		OP-IS.BC-0103(Q)	
RHR PMP C MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BC-0103(Q)	
1BCV-181	1	M51-1	2	F2	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP C LPCI MANUAL ISOLATION VALVE																	
1BCV-182	1	M51-1	2	F2	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP A LPCI MANUAL ISOLATION VALVE																	
1BCV-183	1	M51-1	2	E3	B	PASSIVE	12	MAN	GT	L	O	N/A	PIT	2YR		OP-IS.BC-0105(Q)	
RHR LOOP A RETURN TO RECIRC LOOP A																	
1BCV-194	2	M51-1	1	C5	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
RHR LOOP D JOCKEY PMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)																	
1BCV-206	2	M51-1	2	D4	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
ECCS JOCKEY PMP C MIN FLOW CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 12 Keep Fill Min - Flow (RHR) CIV: Yes																	
1BCV-208	2	M51-1	2	C4	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
RHR LOOP C JOCKEY PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)																	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCV-211	2	M51-1	2	C4	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
RHR LOOP A JOCKEY PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)																	
1BCV-260	2	M51-1	1	D6	C	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
ECCS JOCKEY PMP D MIN FLOW CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 12 Keep Fill Min - Flow (RHR) CIV: Yes																	
1BCV-308	2	M52-1	1	E3	C	ACTIVE	2	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0102(Q)	
CORE SPRAY LOOP B JOCKEY PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)																	
1BCV-312	2	M52-1	1	D5	C	ACTIVE	2	SELF	CK	O	C	N/A	BDO	Q		OP-IS.BC-0101(Q)	
CORE SPRAY LOOP A JOCKEY PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BC-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 11 Keep Fill Pump Disch (RHR & Core Spray)																	
1BCV-423	3	M10-1	2	B3	C	ACTIVE	2	SELF	CK	C	O	N/A	DI-S	RF		OP-IS.EA-0102(Q)	240688
SERVICE WATER TO FPCC MAKEUP CHECK VALVE																	
CMP Active: NO CMP: Yes CMP Group 13 SW to Spent Fuel																	
1BCXV-4411A	1	M51-1	2	G3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PDT-N060A INSTRUMENT LINE EXCESS FLOW CHECK VAVLE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	
1BCXV-4411B	1	M51-1	1	H7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PDT-N060B INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	
1BCXV-4411C	1	M51-1	2	G3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PDT-N060A INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	
1BCXV-4411D	1	M51-1	1	G7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PDT-N060B INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	

System: BC
RESIDUAL HEAT REMOVAL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BCXV-4429A	1	M51-1	2	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PT-N058A INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BCXV-4429B	1	M51-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PT-N058B INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BCXV-4429C	1	M51-1	2	F3	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PT-N058C INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BCXV-4429D	1	M51-1	1	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PT-N058D INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BD
REACTOR CORE ISOLATION COOLING

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1BDHV-F010	2	M49-1	1	F3	B	ACTIVE	6	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP CST SUCTION ISO VALVE													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDHV-F012	2	M49-1	1	D4	B	PASSIVE	6	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BD-0101(Q)	
RCIC PUMP OTBD DISCH VALVE																	
1BDHV-F013	2	M49-1	1	D5	A	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC DISCH TO FEEDWATER ISO VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDHV-F022	2	M49-1	1	E5	B	ACTIVE	4	MO	GB	C	C	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC TEST RETURN TO CST ISO VALVE													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
1BDHV-F031	2	M49-1	1	B7	B	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP SUPPRESSION POOL SUCTION ISO VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDHV-F046	2	M50-1	1	C6	B	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC LUBE OIL COOLER COOLING WATER SUPPLY VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDPSV-F017	2	M50-1	1	E5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RCIC PUMP SUCTION RELIEF VALVE																	

System: BD
REACTOR CORE ISOLATION COOLING

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BDSV-4405	2	M49-1	1	C6	B	ACTIVE	2	SO	GB	C	O/	C	FSC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP MIN FLOW ISO VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													FSTC	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDSV-F019	2	M49-1	1	C6	B	ACTIVE	2	SO	GB	C	O/	C	FSC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP MIN FLOW CONT ISO VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													FSTC	Q		OP-IS.BD-0101(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1BDV-002	2	M49-1	1	E3	C	ACTIVE	6	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP CST SUCTION CHECK VALVE													CTO	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 14 RCIC Testable Check Valves																	
1BDV-004	2	M49-1	1	B6	C	ACTIVE	6	SELF	MCK	C	O	N/A	CTC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP SUPP CHAMBER SUCTION CHECK VALVE													CTO	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 14 RCIC Testable Check Valves																	
1BDV-010	2	M49-1	1	D4	C	ACTIVE	6	SELF	CK	C	C	N/A	CTC	Q		OP-IS.BD-0101(Q)	
RCIC PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.BD-0001(Q)	
1BDV-023	2	M50-1	1	B4	C	ACTIVE	2	SELF	CK	C	O/	N/A	BDO	Q		OP-IS.BD-0001(Q)	
RCIC VACUUM TANK COND PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BD-0101(Q)	
1BDV-028	2	M49-1	1	D4	C	ACTIVE	1	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BD-0101(Q)	
RCIC JOCKEY PUMP DISCH TO RCIC CHECK VALVE													CTO	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 16 RCIC/HPCI Keep Fill Discharge																	
1BDV-029	2	M49-1	1	C4	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.BD-0101(Q)	
RCIC JOCKEY PUMP DISCH TO RCIC CHECK VALVE													CTO	Q		OP-IS.BD-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 16 RCIC/HPCI Keep Fill Discharge																	

System: BE
CORE SPRAY

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BEHV-F001A	2	M52-1	1	B6	B	ACTIVE	16	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP A SUP POOL SUCTION ISO VALVE													STC	Q		OP-IS.BE-0101(Q)	
										CIV: Yes							
1BEHV-F001B	2	M52-1	1	B7	B	ACTIVE	16	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP B SUP POOL SUCTION ISO VALVE													STC	Q		OP-IS.BE-0102(Q)	
										CIV: Yes							
1BEHV-F001C	2	M52-1	1	B7	B	ACTIVE	16	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP C SUP POOL SUCTION ISO VALVE													STC	Q		OP-IS.BE-0101(Q)	
										CIV: Yes							
1BEHV-F001D	2	M52-1	1	B8	B	ACTIVE	16	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP D SUP POOL SUCTION ISO VALVE													STC	Q		OP-IS.BE-0102(Q)	
										CIV: Yes							
1BEHV-F004A	2	M52-1	1	F5	B	ACTIVE	12	MO	GT	O	O	N/A	FSO	Q		OP-IS.BE-0101(Q)	
CORE SPRAY LOOP A HEADER TEST ISO VALVE													PIT	2YR		OP-IS.BE-0101(Q)	
													STO	Q		OP-IS.BE-0101(Q)	
1BEHV-F004B	2	M52-1	1	F5	B	ACTIVE	12	MO	GT	O	O	N/A	FSO	Q		OP-IS.BE-0102(Q)	
CORE SPRAY LOOP B HEADER TEST ISO VALVE													PIT	2YR		OP-IS.BE-0102(Q)	
													STO	Q		OP-IS.BE-0102(Q)	
1BEHV-F005A	1	M52-1	1	F6	A	ACTIVE	12	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY LOOP B INJECTION OUTBOARD ISO VALVE													FSO	Q		OP-IS.BE-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BE-0101(Q)	
													STC	Q		OP-IS.BE-0101(Q)	
													STO	Q		OP-IS.BE-0101(Q)	

System: BE
CORE SPRAY

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BEHV-F005B	1	M52-1	1	F6	A	ACTIVE	12	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY LOOP A INJECTION OUTBOARD ISO VALVE													FSO	Q		OP-IS.BE-0102(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes	PIV: Yes		LT	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BE-0102(Q)	
													STC	Q		OP-IS.BE-0102(Q)	
													STO	Q		OP-IS.BE-0102(Q)	
1BEHV-F006A	1	M52-1	1	F6	C	ACTIVE	12	SELF	TCK	C	O	N/A	BDC			OP-IS.BE-0103(Q)	
CORE SPRAY LOOP A INJ CHECK VALVE													CTO	CS	CS-08	OP-IS.BE-0103(Q)	
													LT	2YR		RA-IS.ZZ-0010(Q)	
											PIV: Yes		PIT	2YR		OP-IS.BE-0103(Q)	
1BEHV-F006B	1	M52-1	1	F6	C	ACTIVE	12	SELF	TCK	C	O	N/A	BDC			OP-IS.BE-0103(Q)	
CORE SPRAY LOOP B INJ CHECK VALVE													CTO	CS	CS-08	OP-IS.BE-0103(Q)	
													LT	2YR		RA-IS.ZZ-0010(Q)	
											PIV: Yes		PIT	2YR		OP-IS.BE-0103(Q)	
1BEHV-F015A	2	M52-1	1	D6	B	ACTIVE	10	MO	GB	C	C	N/A	FSC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY LOOP A PUMP TEST ISOLATION VALVE													PIT	2YR		OP-IS.BE-0101(Q)	
													STC	Q		OP-IS.BE-0101(Q)	
										CIV: Yes							
1BEHV-F015B	2	M52-1	1	D6	B	ACTIVE	10	MO	GB	C	C	N/A	FSC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY LOOP A PUMP TEST ISOLATION VALVE													PIT	2YR		OP-IS.BE-0102(Q)	
													STC	Q		OP-IS.BE-0102(Q)	
										CIV: Yes							
1BEHV-F031A	2	M52-1	1	C6	B	ACTIVE	4	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY LOOP A MIN FLOW ISOLATION VALVE													FSO	Q		OP-IS.BE-0101(Q)	
													PIT	2YR		OP-IS.BE-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BE-0101(Q)	
													STO	Q		OP-IS.BE-0101(Q)	
1BEHV-F031B	2	M52-1	1	C6	B	ACTIVE	4	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY LOOP B MIN FLOW ISOLATION VALVE													FSO	Q		OP-IS.BE-0102(Q)	
													PIT	2YR		OP-IS.BE-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.BE-0102(Q)	
													STO	Q		OP-IS.BE-0102(Q)	

System: BE
CORE SPRAY

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BEHV-F039A	1	M52-1	1	E6	B	PASSIVE	2	AO	GB	C	C	N/A	LT	2YR		RA-IS.ZZ-0010(Q)	
CORE SPRAY LOOP A INJ CHECK BYPASS VALVE													PIT	2YR		OP-IS.BE-0103(Q)	
											PIV: Yes						
1BEHV-F039B	1	M52-1	1	F6	B	PASSIVE	2	AO	GB	C	C	N/A	LT	2YR		RA-IS.ZZ-0010(Q)	
CORE SPRAY LOOP B INJ CHECK BYPASS VALVE													PIT	2YR		OP-IS.BE-0103(Q)	
											PIV: Yes						
1BEPSV-F012A	2	M52-1	1	F4	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY HEADER A RELIEF VALVE																	
										CIV: Yes							
1BEPSV-F012B	2	M52-1	1	F4	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY HEADER B RELIEF VALVE																	
										CIV: Yes							
1BEPSV-F032A	2	M52-1	1	B6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY PUMP A SUCTION RELIEF VALVE																	
1BEPSV-F032B	2	M52-1	1	B4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY PUMP B SUCTION RELIEF VALVE																	
1BEPSV-F032C	2	M52-1	1	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY PUMP C SUCTION RELIEF VALVE																	
1BEPSV-F032D	2	M52-1	1	B3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CORE SPRAY PUMP D SUCTION RELIEF VALVE																	
1BEV-013	2	M52-1	1	C5	C	ACTIVE	12	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP A DISCH CHECK VALVE													CTO	Q		OP-IS.BE-0001(Q)	
1BEV-014	2	M52-1	1	C4	C	ACTIVE	12	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP C DISCH CHECK VALVE													CTO	Q		OP-IS.BE-0001(Q)	

System: BE
CORE SPRAY

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BEV-015	2	M52-1	1	B3	C	ACTIVE	12	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP B DISCH CHECK VALVE													CTO	Q		OP-IS.BE-0002(Q)	
1BEV-016	2	M52-1	1	B2	C	ACTIVE	12	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP D DISCH CHECK VALVE													CTO	Q		OP-IS.BE-0002(Q)	
1BEV-028	2	M52-1	1	C6	C	ACTIVE	3	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP A MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BE-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 17 Core Spray Min - Flow																	
1BEV-030	2	M52-1	1	C5	C	ACTIVE	3	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BE-0101(Q)	
CORE SPRAY PUMP C MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BE-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 17 Core Spray Min - Flow																	
1BEV-032	2	M52-1	1	C4	C	ACTIVE	3	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP B MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 17 Core Spray Min - Flow																	
1BEV-034	2	M52-1	1	C3	C	ACTIVE	3	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BE-0102(Q)	
CORE SPRAY PUMP D MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BE-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 17 Core Spray Min - Flow																	
1BEXV-F018A	1	M52-1	1	G6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0009(Q)	
PDT-N058 INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0009(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0009(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	
1BEXV-F018B	1	M52-1	1	H6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0009(Q)	
PDT-N058 INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0009(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0009(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow CIV: Yes																	

System: BF
CONTROL ROD DRIVE

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BFHV-3800A	2	M43-1	1	C3	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	CS	CS-09	OP-IS.BF-0102(Q)	
RECIRC PUMP A SEAL WATER CONT ISOL VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BF-0102(Q)	
										CIV: Yes			STC	CS	CS-09	OP-IS.BF-0102(Q)	
1BFHV-3800B	2	M43-1	1	B3	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	CS	CS-09	OP-IS.BF-0102(Q)	
RECIRC PUMP B SEAL WATER CONT ISOL VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BF-0102(Q)	
										CIV: Yes			STC	CS	CS-09	OP-IS.BF-0102(Q)	
1BFHV-F010	2	M47-1	1	H4	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BF-0101(Q)	
SCRAM DISCHARGE VOLUME VENT VALVE													FSTC	Q		OP-IS.BF-0101(Q)	
													PIT	2YR		OP-IS.BF-0101(Q)	
													STC	Q		OP-IS.BF-0101(Q)	
1BFHV-F011	2	M47-1	1	E4	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BF-0101(Q)	
SCRAM DISCHARGE VOLUME DRAIN VALVE													FSTC	Q		OP-IS.BF-0101(Q)	
													PIT	2YR		OP-IS.BF-0101(Q)	
													STC	Q		OP-IS.BF-0101(Q)	
1BFHV-F180	2	M47-1	1	H4	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BF-0101(Q)	
SCRAM DISCHARGE VOLUME VENT VALVE													FSTC	Q		OP-IS.BF-0101(Q)	
													PIT	2YR		OP-IS.BF-0101(Q)	
													STC	Q		OP-IS.BF-0101(Q)	
1BFHV-F181	2	M47-1	1	E5	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BF-0101(Q)	
SCRAM DISCHARGE VOLUME DRAIN VALVE													FSTC	Q		OP-IS.BF-0101(Q)	
													PIT	2YR		OP-IS.BF-0101(Q)	
													STC	Q		OP-IS.BF-0101(Q)	
1BFV-114	2	M47-1	1	D5	C	ACTIVE	0.75	SELF	CK	C	O	N/A	SKID	RF	SKID	RE-ST.BF-0001(Q)	
HCU SCRAM DISCHARGE CHECK VALVE																	
1BFV-115	3	M47-1	1	C4	C	ACTIVE	0.5	SELF	CK	C	C	N/A	BDO	RF	RJ-09	RE-ST.BF-0001(Q)	
HCU CHARGING WATER CHECK VALVE													CTC	RF	RJ-09	OP-IS.BF-0103(Q)	
1BFV-138	3	M47-1	1	C6	C	ACTIVE	0.5	SELF	CK	O	C	N/A	SKID	RF	SKID	RE-ST.BF-0001(Q)	
COOLING WATER SUPPLY TO HCU CHECK VALVE																	
										CIV: Yes							

System: BF
CONTROL ROD DRIVE

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BFXV-126	3	M47-1	1	C5	B	ACTIVE	0.5	AO	GB	C	O/	O	SKID	TS	SKID	RE-ST.BF-0001(Q)	
SCRAM INLET VALVE																	
										CIV: Yes							
1BFXV-127	N	M47-1	1	D5	B	ACTIVE	0.75	AO	GB	C	O/	O	SKID	TS	SKID	RE-ST.BF-0001(Q)	
SCRAM OUTLET VALVE																	
										CIV: Yes							
1BFXV-139	N	M47-1	1	C5	N/A	ACTIVE	0.5	AO	GB	C	O	O	SKID	TS	SKID	RE-ST.BF-0001(Q)	
SCRAM PILOT VALVE ASSEMBLY																	

System: BG
REACTOR WATER CLEANUP

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BGHV-F001	1	M44-1	1	E7	A	ACTIVE	6	MO	GT	O	C	N/A	FSC	CS	CS-22	OP-IS.BG-0102(Q)	
REACTOR WATER CLEANUP SUPPLY INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BG-0102(Q)	
										CIV: Yes			STC	CS	CS-22	OP-IS.BG-0102(Q)	
1BGHV-F004	1	M44-1	1	E6	A	ACTIVE	6	MO	GT	O	C	N/A	FSC	CS	CS-22	OP-IS.BG-0102(Q)	
REACTOR WATER CLEANUP SUPPLY OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BG-0102(Q)	
										CIV: Yes			STC	CS	CS-22	OP-IS.BG-0102(Q)	
1BGXV-3882	1	M44-1	1	B7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
PT-N037 INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BGXV-3884A	1	M44-1	1	E7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.BG-0040(Q)	
FT-N036A INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.BG-0040(Q)	
													PIT	TS	CMP	IC-FT.BG-0040(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BGXV-3884B	1	M44-1	1	E7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.BG-0005(Q)	
FT-N036D INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.BG-0005(Q)	
													PIT	TS	CMP	IC-FT.BG-0005(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BGXV-3884C	1	M44-1	1	E7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.BG-0040(Q)	
FT-N038A INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.BG-0040(Q)	
													PIT	TS	CMP	IC-FT.BG-0040(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							
1BGXV-3884D	1	M44-1	1	D7	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.BG-0005(Q)	
FT-N036D INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.BG-0005(Q)	
													PIT	TS	CMP	IC-FT.BG-0005(Q)	
CMP Active: NO	CMP: Yes	CMP Group	35	Class 1 Excess Flow						CIV: Yes							

System: BH
STANDBY LIQUID CONTROL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BHHV-F006A	1	M48-1	1	D8	AC	ACTIVE	2	S/MO	SCK	C	O/	N/A	CTC	RF	RJ-10	RA-IS.ZZ-0010(Q)	
STANDBY LIQUID CONTROL INJECTION OTBD CONT ISO VALVE													CTO	RF	RJ-10	OP-ST.BH-0002(Q)	
													FSC	2YR		RA-IS.ZZ-0010(Q)	
CMP Active: NO	CMP: Yes	CMP Group	18	SLS Outbd Testable CV's						CIV: Yes			LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BH-0101(Q)	
													STC	Q		OP-IS.BH-0101(Q)	
1BHHV-F006B	1	M48-1	1	D8	AC	ACTIVE	2	S/MO	SCK	C	O/	N/A	CTC	RF	RJ-10	RA-IS.ZZ-0010(Q)	
STANDBY LIQUID CONTROL INJECTION OTBD CONT ISO VALVE													CTO	RF	RJ-10	OP-ST.BH-0002(Q)	
													FSC	2YR		RA-IS.ZZ-0010(Q)	
CMP Active: NO	CMP: Yes	CMP Group	18	SLS Outbd Testable CV's						CIV: Yes			LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BH-0101(Q)	
													STC	Q		OP-IS.BH-0101(Q)	
1BHPSV-F029A	2	M48-1	1	E5	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
STANDBY LIQUID CONTROL INJ PUMP DISCH RELIEF VALVE																	
1BHPSV-F029B	2	M48-1	1	C5	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
STANDBY LIQUID CONTROL INJ PMP DISCH RELIEF VALVE																	
1BHV-004	2	M48-1	1	D6	C	ACTIVE	1.5	SELF	CK	C	O/	N/A	CTC	RF	RJ-14	OP-IS.BH-0003(Q)	
STANDBY LIQUID CONTROL INJ PMP A DISCH CHECK VALVE													CTO	Q		OP-IS.BH-0003(Q)	
1BHV-005	2	M48-1	1	C6	C	ACTIVE	1.5	SELF	CK	C	O/	N/A	CTC	RF	RJ-14	OP-IS.BH-0004(Q)	
STANDBY LIQUID CONTROL INJ PMP B DISCH CHECK VALVE													CTO	Q		OP-IS.BH-0004(Q)	
1BHV-019	2	M48-1	1	D6	B	PASSIVE	1.5	MAN	GB	L	C	N/A	PIT	2YR		OP-IS.BH-0003(Q)	
STANDBY LIQUID CONTROL INJ PMP TEST LINE ISO VALVE																	
1BHV-029	1	M48-1	1	D8	AC	ACTIVE	1.5	SELF	CK	C	O/	N/A	CTC	RF	RJ-10	RA-IS.ZZ-0010(Q)	
STANDBY LIQUID CONTROL INJECTION INBD CONT ISO CHECK VALVE													CTO	RF	RJ-10	OP-ST.BH-0002(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
CMP Active: NO	CMP: Yes	CMP Group	19	SLS Inbd CIV						CIV: Yes							
1BHV-053	2	M48-1	1	E4	B	PASSIVE	4	MAN	GB	L	C	N/A	PIT	2YR		OP-IS.BH-0003(Q)	
STANDBY LIQUID CONTROL TEST TANK SUCTION ISO VALVE																	

System: BH
STANDBY LIQUID CONTROL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BHXV-F004A	2	M48-1	1	D7	D	ACTIVE	1.5	EXPL	GT	C	O	N/A	EX	36 MO		OP-ST.BH-0002(Q)	
STANDBY LIQUID CONTROL HEADER EXPLOSIVE VALVE																	
1BHXV-F004B	2	M48-1	1	C7	D	ACTIVE	1.5	EXPL	GT	C	O	N/A	EX	36 MO		OP-ST.BH-0002(Q)	
STANDBY LIQUID CONTROL HEADER EXPLOSIVE VALVE																	

System: BJ
HIGH PRESSURE COOLANT INJECTION

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BJHV-4803	2	M55-1	1	B6	B	ACTIVE	2	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
SUPPRESSION POOL LEVEL INSTRUMENTATION CONT ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
										CIV: Yes							
1BJHV-4804	2	M55-1	1	B6	B	ACTIVE	2	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
SUPPRESSION POOL LEVEL INSTRUMENTATION CONT ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
										CIV: Yes							
1BJHV-4865	2	M55-1	1	B8	B	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
SUPPRESSION POOL LEVEL INSTRUMENTATION CONT ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
										CIV: Yes							
1BJHV-4866	2	M55-1	1	B8	B	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
SUPPRESSION POOL LEVEL INSTRUMENTATION CONT ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
										CIV: Yes							
1BJHV-8278	2	M55-1	1	C6	A	ACTIVE	8	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI DISCH TO FEEDWATER ISO VALVE													FSO	Q		OP-IS.BJ-0101(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJHV-F004	2	M55-1	1	F3	B	ACTIVE	16	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP CST SUCTION ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJHV-F006	1	M55-1	1	D6	A	ACTIVE	14	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI DISCH TO CORE SPRAY ISO VALVE													FSO	Q		OP-IS.BJ-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJHV-F007	2	M55-1	1	D5	B	PASSIVE	14	MO	GT	O	O	N/A	PIT	2YR		OP-IS.BJ-0101(Q)	
HPCI PUMP DISCH ISO VLAVE																	

System: BJ
HIGH PRESSURE COOLANT INJECTION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1BJHV-F008	2	M55-1	1	E5	B	ACTIVE	10	MO	GB	C	C	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI TEST RETURN TO CST ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
1BJHV-F012	2	M55-1	1	C6	B	ACTIVE	4	MO	GB	C	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI MIN FLOW ISOLATION VALVE													FSO	Q		OP-IS.BJ-0101(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJHV-F042	2	M55-1	1	A8	B	ACTIVE	16	MO	GT	C	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP SUCTION FROM SUPP CHAMBER CONT ISO VALVE													FSO	Q		OP-IS.BJ-0101(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJHV-F059	2	M56-1	1	C5	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.BJ-0101(Q)	
HPCI BAROMETRIC COND WATER INLET ISO VALVE													PIT	2YR		OP-IS.BJ-0101(Q)	
													STO	Q		OP-IS.BJ-0101(Q)	
1BJPSV-F020	2	M56-1	1	G6	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
HPCI PUMP SUCTION RELIEF VALVE																	
1BJV-003	2	M55-1	1	D5	C	ACTIVE	14	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.BJ-0001(Q)	
1BJV-006	2	M55-1	1	E3	C	ACTIVE	16	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP CST SUCTION CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 15 HPCI Testable Check Valves																	
1BJV-008	2	M55-1	1	A6	C	ACTIVE	16	SELF	MCK	C	O	N/A	CTC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP SUPP CHAMBER SUCTION CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 15 HPCI Testable Check Valves																	
1BJV-014	2	M55-1	1	E4	C	ACTIVE	1	SELF	CK	O	O/	N/A	CTC	Q		OP-IS.BJ-0101(Q)	
HPCI JOCKEY PUMP DISCH TO HPCI CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 16 RCIC/HPCI Keep Fill Discharge																	

System: BJ
HIGH PRESSURE COOLANT INJECTION

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1BJV-015	2	M55-1	1	C4	C	ACTIVE	4	SELF	MCK	C	O	N/A	BDC	Q		OP-IS.BJ-0101(Q)	
HPCI PUMP MIN FLOW CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 20 HPCI Min Flow																	
1BJV-023	2	M55-1	1	E4	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.BJ-0101(Q)	
HPCI JOCKEY PUMP DISCH TO HPCI CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 16 HPCI Keep Fill Discharge (Recirc's CST Water)																	
1BJV-027	2	M56-1	1	B5	C	ACTIVE	2	SELF	CK	C	O/	N/A	BDO	N		OP-IS.BJ-0001(Q)	
HPCI VACUUM TANK COND PUMP DISCH CHECK VALVE													CTC	N		OP-IS.BJ-0101(Q)	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EAHV-2197A	3	M10-1	1	F7	B	ACTIVE	6	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A STRAINER BACKWASH VALVE													FSO	Q		OP-IS.EA-0101(Q)	
													PIT	2YR		OP-IS.EA-0101(Q)	
													STC	Q		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2197B	3	M10-1	1	F4	B	ACTIVE	6	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B STRAINER BACKWASH VALVE													FSO	Q		OP-IS.EA-0102(Q)	
													PIT	2YR		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2197C	3	M10-1	1	F5	B	ACTIVE	6	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C STRAINER BACKWASH VALVE													FSO	Q		OP-IS.EA-0101(Q)	
													PIT	2YR		OP-IS.EA-0101(Q)	
													STC	Q		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2197D	3	M10-1	1	F2	B	ACTIVE	6	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D STRAINER BACKWASH VALVE													FSO	Q		OP-IS.EA-0102(Q)	
													PIT	2YR		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2198A	3	M10-1	1	G7	B	ACTIVE	28	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A DISCH ISO VALVE													FSO	Q		OP-IS.EA-0101(Q)	
													PIT	2YR		OP-IS.EA-0101(Q)	
													STC	Q		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2198B	3	M10-1	1	G4	B	ACTIVE	28	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B DISCH ISO VALVE													FSO	Q		OP-IS.EA-0102(Q)	
													PIT	2YR		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EAHV-2198C	3	M10-1	1	G5	B	ACTIVE	28	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C DISCH ISO VALVE													FSO	Q		OP-IS.EA-0101(Q)	
													PIT	2YR		OP-IS.EA-0101(Q)	
													STC	Q		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2198D	3	M10-1	1	G3	B	ACTIVE	28	MO	BFY	A	O/	N/A	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D DISCH ISO VALVE													FSO	Q		OP-IS.EA-0102(Q)	
													PIT	2YR		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2203	3	M10-1	2	A5	B	ACTIVE	30	MO	BFY	O	C	N/A	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER TRAIN A TO RACS ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STC	Q		OP-IS.EA-0101(Q)	
1EAHV-2204	3	M10-1	2	A4	B	ACTIVE	30	MO	BFY	O	C	N/A	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER TRAIN B TO RACS ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
1EAHV-2207	3	M10-1	2	B5	B	ACTIVE	24	MO	BFY	O	C	N/A	FSC	CS	CS-10	OP-IS.EA-0103(Q)	
SERVICE WATER TO RACS HEADER ISO VALVE													PIT	2YR		OP-IS.EA-0103(Q)	
													STC	CS	CS-10	OP-IS.EA-0103(Q)	
1EAHV-2234	3	M10-1	2	A6	B	ACTIVE	3	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER LOOP A EMERGENCY MAKEUP OTBD ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2236	3	M10-1	2	B6	B	ACTIVE	3	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER LOOP A EMERGENCY MAKEUP INBD ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2238	3	M10-1	2	B3	B	ACTIVE	6	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER LOOP B EMERGENCY MAKEUP OTBD ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2346	3	M10-1	2	G6	B	ACTIVE	24	MO	BFY	O	C	N/A	FSC	CS	CS-10	OP-IS.EA-0103(Q)	
RACS SERVICE WATER RETURN TO CLG TWR BASIN ISO VALVE													PIT	2YR		OP-IS.EA-0103(Q)	
													STC	CS	CS-10	OP-IS.EA-0103(Q)	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EAHV-2355A	3	M10-1	2	F5	B	ACTIVE	24	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SACS HEAT EXCHANGER A2 SERVICE WATER OUTLET ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2355B	3	M10-1	2	F3	B	ACTIVE	24	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SACS HEAT EXCHANGER B2 SERVICE WATER OUTLET ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2356A	3	M10-1	2	G5	B	ACTIVE	20	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER LOOP A YARD DUMP VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2356B	3	M10-1	2	G3	B	ACTIVE	20	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER LOOP B YARD DUMP VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-2357A	3	M10-1	2	H4	B	ACTIVE	36	MO	BFY	O	C	N/A	FSC	CS	CS-11	OP-IS.EA-0103(Q)	
SACS SERVICE WATER LOOP A TO CLG TWR BASIN ISO VALVE													PIT	2YR		OP-IS.EA-0103(Q)	
													STC	CS	CS-11	OP-IS.EA-0103(Q)	
1EAHV-2357B	3	M10-1	2	G2	B	ACTIVE	36	MO	BFY	O	C	N/A	FSC	CS	CS-11	OP-IS.EA-0103(Q)	
SACS SERVICE WATER LOOP B TO CLG TWR BASIN ISO VALVE													PIT	2YR		OP-IS.EA-0103(Q)	
													STC	CS	CS-11	OP-IS.EA-0103(Q)	
1EAHV-2371A	3	M10-1	2	D5	B	ACTIVE	24	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SACS HEAT EXCHANGER A1 SERVICE WATER OUTLET ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EAHV-2371B	3	M10-1	2	D3	B	ACTIVE	24	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SACS HEAT EXCHANGER B1 SERVICE WATER OUTLET ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAHV-F073	3	M10-1	2	B4	B	ACTIVE	6	MO	BFY	C	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER LOOP B EMERGENCY MAKEUP INBD ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EAPSE-2210A	3	M10-1	2	G5	D	ACTIVE	20	SELF	RD	C	O	N/A	EX	5YR		Work Order	HC240801
SACS SERVICE WATER LOOP A YARD DUMP RUPTURE DISK																	
1EAPSE-2210B	3	M10-1	2	G3	D	ACTIVE	20	SELF	RD	C	O	N/A	EX	5YR		Work Order	HC240801
SACS SERVICE WATER LOOP B YARD DUMP RUPTURE DISK																	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EAPSV-2351A	3	M10-1	2	F5	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER A2 SERVICE WATER RELIEF VALVE																	
1EAPSV-2351B	3	M10-1	2	F3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER B2 SERVICE WATER RELIEF VALVE																	
1EAPSV-2366A	3	M10-1	2	D5	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER A1 SERVICE WATER RELIEF VALVE																	
1EAPSV-2366B	3	M10-1	2	D3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER B1 SERVICE WATER RELIEF VALVE																	
1EASV-2235	3	M10-1	2	B6	B	ACTIVE	1	SO	GB	O	C	C	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER MAKEUP HEADER AUTO DRAIN VALVE													FSTC	Q		OP-IS.EA-0101(Q)	
													STC	Q		MD-GP.ZZ-0100(Q)	
1EASV-2237	3	M10-1	2	B6	B	ACTIVE	1	SO	GB	O	C	C	FSC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER MAKEUP HEADER AUTO DRAIN VALVE													FSTC	Q		OP-IS.EA-0101(Q)	
													STC	Q		MD-GP.ZZ-0100(Q)	
1EASV-2239	3	M10-1	2	B3	B	ACTIVE	1	SO	GB	O	C	C	FSC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER MAKEUP HEADER AUTO DRAIN VALVE													FSTC	Q		OP-IS.EA-0102(Q)	
													STC	Q		OP-IS.EA-0102(Q)	
1EASV-2247A	3	M10-1	3	B7	B	ACTIVE	1	SO	GB	C	O	C	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A EMERGENCY LUBE WATER SUPPLY VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EASV-2247B	3	M10-1	3	B4	B	ACTIVE	1	SO	GB	C	O	C	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B EMERGENCY LUBE WATER SUPPLY VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	
1EASV-2247C	3	M10-1	3	B6	B	ACTIVE	1	SO	GB	C	O	C	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C EMERGENCY LUBE WATER SUPPLY VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1EASV-2247D	3	M10-1	3	B3	B	ACTIVE	1	SO	GB	C	O	C	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D EMERGENCY LUBE WATER SUPPLY VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EAV-359	3	M10-1	1	F7	C	ACTIVE	28	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
1EAV-361	3	M10-1	1	F5	C	ACTIVE	28	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
1EAV-363	3	M10-1	1	F4	C	ACTIVE	28	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
1EAV-365	3	M10-1	1	F3	C	ACTIVE	28	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
1EAV-453	3	M10-1	2	G6	B	ACTIVE	24	MAN	BFY	O	C	N/A	FSC	2YR		OP-IS.EA-0103(Q)	
SSW TO RACS OUTBD ISLN VLV																	
1EAV-542	3	M10-1	3	C6	B	PASSIVE	2	MAN	GB	O	O	N/A	PIT	2YR		OP-IS.EA-0101(Q)	
LUBRICATION HEAD TANK OUTLET MAN ISO VALVE																	
1EAV-543	3	M10-1	3	C6	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.EA-0101(Q)	
LUBRICATION HEAD TANK DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 21 SW Head Tank Discharge																	
1EAV-544	3	M10-1	3	B7	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A LUBRICATING WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 22 SW Pump Lube Supply																	
1EAV-545	3	M10-1	3	B6	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C LUBRICATING WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 22 SW Pump Lube Supply																	
1EAV-546	3	M10-1	3	B4	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B LUBRICATING WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 22 SW Pump Lube Supply																	

System: EA
SERVICE WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EAV-547	3	M10-1	3	B3	C	ACTIVE	1	SELF	CK	O	O	N/A	BDC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D LUBRICATING WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 22 SW Pump Lube Supply																	
1EAV-556	3	M10-1	3	C5	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.EA-0102(Q)	
LUBRICATION HEAD TANK DISCH CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 21 SW Head Tank Discharge																	
1EAV-557	3	M10-1	2	B7	C	ACTIVE	2	SELF	CK	C	O	N/A	DI-S	RF		OP-IS.EA-0101(Q)	
SERVICE WATER TO FPCC MAKEUP CHECK VALVE																	
CMP Active: NO CMP: Yes CMP Group 13 SW To Spent Fuel																	
1EAV-567	3	M10-1	3	C5	B	PASSIVE	2	MAN	GB	C	C	N/A	PIT	2YR		OP-IS.EA-0101(Q)	
SERVICE WATER EMERGENCY LUBE HEADER CROSS-CONNECT VALVE																	
1EAV-596	3	M10-1	3	B7	C	ACTIVE	1.0	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP A EMERGENCY LUBE WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 23 SW Pump Emerg Lube Supply																	
1EAV-597	3	M10-1	3	B6	C	ACTIVE	1.0	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.EA-0101(Q)	
SERVICE WATER PUMP C EMERGENCY LUBE WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 23 SW Pump Emerg Lube Supply																	
1EAV-598	3	M10-1	3	B5	C	ACTIVE	1.0	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP B EMERGENCY LUBE WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 23 SW Pump Emerg Lube Supply																	
1EAV-599	3	M10-1	3	B3	C	ACTIVE	1.0	SELF	CK	C	O/	N/A	CTC	Q		OP-IS.EA-0102(Q)	
SERVICE WATER PUMP D EMERGENCY LUBE WATER SUPPLY CHECK VALVE													CTO	Q		OP-IS.EA-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 23 SW Pump Emerg Lube Supply																	

System: EC
FUEL POOL COOLING

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1ECHV-4647	3	M10-1	2	B7	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.EA-0101(Q)	
SERVICE WATER MAKEUP TO FPCC ISO VALVE													PIT	2YR		OP-IS.EA-0101(Q)	
													STO	Q		OP-IS.EA-0101(Q)	
1ECHV-4648	3	M10-1	2	B3	B	ACTIVE	2	MO	GB	C	O	N/A	FSO	Q		OP-IS.EA-0102(Q)	
SERVICE WATER MAKEUP TO FPCC ISO VALVE													PIT	2YR		OP-IS.EA-0102(Q)	
													STO	Q		OP-IS.EA-0102(Q)	

System: ED
REACTOR AUXILIARIES
COOLING

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EDHV-2553	2	M13-1	1	D5	A	ACTIVE	4	MO	GT	O	C	N/A	FSC	CS	CS-12	OP-IS.ED-0101(Q)	
RECIRC PUMP COOLING SUPPLY OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.ED-0101(Q)	
										CIV: Yes			STC	CS	CS-12	OP-IS.ED-0101(Q)	
1EDHV-2554	2	M13-1	1	C5	A	ACTIVE	4	MO	GT	O	C	N/A	FSC	CS	CS-12	OP-IS.ED-0101(Q)	
RECIRC PUMP COOLING SUPPLY INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.ED-0101(Q)	
										CIV: Yes			STC	CS	CS-12	OP-IS.ED-0101(Q)	
1EDHV-2555	2	M13-1	1	D3	A	ACTIVE	4	MO	GT	O	C	N/A	FSC	CS	CS-12	OP-IS.ED-0101(Q)	
RECIRC PUMP COOLING RETURN OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.ED-0101(Q)	
										CIV: Yes			STC	CS	CS-12	OP-IS.ED-0101(Q)	
1EDHV-2556	2	M13-1	1	C3	A	ACTIVE	4	MO	GT	O	C	N/A	FSC	CS	CS-12	OP-IS.ED-0101(Q)	
RECIRC PUMP COOLING RETURN INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.ED-0101(Q)	
										CIV: Yes			STC	CS	CS-12	OP-IS.ED-0101(Q)	
1EDHV-2598	N	M13-1	1	G2	B	ACTIVE	18	MO	BFY	O	C	N/A	FSC	CS	CS-13	OP-IS.ED-0101(Q)	
RACS AUX BLDG RETURN ISO VALVE													PIT	2YR		OP-IS.ED-0101(Q)	
													STC	CS	CS-13	OP-IS.ED-0101(Q)	
1EDHV-2599	N	M13-1	1	G2	B	ACTIVE	18	MO	BFY	O	C	N/A	FSC	CS	CS-13	OP-IS.ED-0101(Q)	
RACS AUX BLDG SUPPLY ISO VALVE													PIT	2YR		OP-IS.ED-0101(Q)	
													STC	CS	CS-13	OP-IS.ED-0101(Q)	
1EDPSV-11699	3	M13-1	1	D4	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
REACTOR AUXILIARIES COOLING RETURN RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1EDPSV-11700	3	M13-1	1	D3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
REACTOR AUXILIARIES COOLING SUPPLY RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							

System: EE
TORUS WATER CLEANUP

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1EEHV-4652	2	M53-1	2	D6	A	ACTIVE	6	MO	GT	C	C	N/A	FSC	Q		OP-IS.EE-0101(Q)	
TORUS WATER CLEANUP RETURN CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.EE-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.EE-0101(Q)	
1EEHV-4679	2	M53-1	2	D5	A	ACTIVE	6	MO	GT	C	C	N/A	FSC	Q		OP-IS.EE-0101(Q)	
TORUS WATER CLEANUP RETURN CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.EE-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.EE-0101(Q)	
1EEHV-4680	2	M53-1	2	B6	A	ACTIVE	6	MO	GT	C	C	N/A	FSC	Q		OP-IS.EE-0101(Q)	
TORUS WATER CLEANUP SUCTION CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.EE-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.EE-0101(Q)	
1EEHV-4681	2	M53-1	2	B6	A	ACTIVE	6	MO	GT	C	C	N/A	FSC	Q		OP-IS.EE-0101(Q)	
TORUS WATER CLEANUP SUCTION CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.EE-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.EE-0101(Q)	

System: EG **Third 10-Year Interval**

SAFETY AUXILIARIES COOLING

(SACS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1EGHV-2290A	3	M11-1	2	F8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
RHR PMP RM CLG UNIT AVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2290B	3	M11-1	2	C8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RHR PMP RM CLG UNIT BVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2290C	3	M11-1	2	G8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
RHR PMP RM CLG UNIT CVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2290D	3	M11-1	2	B8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RHR PMP RM CLG UNIT DVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2290E	3	M11-1	2	F8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
RHR PMP RM CLG UNIT EVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2290F	3	M11-1	2	C8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RHR PMP RM CLG UNIT FVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2290G	3	M11-1	2	G8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
RHR PMP RM CLG UNIT GVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2290H	3	M11-1	2	B8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RHR PMP RM CLG UNIT HVH210 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2292A	3	M11-1	2	E8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
HPCI PMP RM CLG UNIT AVH209 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2292B	3	M11-1	2	E8	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
HPCI PMP RM CLG UNIT BVH209 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2293A	3	M11-1	2	D8	B	ACTIVE	2	AO	GT	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RCIC PMP RM CLG UNIT AVH208 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	

System: EG **Third 10-Year Interval**

SAFETY AUXILIARIES COOLING

(SACS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EGHV-2293B	3	M11-1	2	D8	B	ACTIVE	2	AO	GT	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
RCIC PMP RM CLG UNIT BVH208 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2302A	3	M11-1	2	G6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
FRVS CLG COIL AVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2302B	3	M11-1	2	E6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
FRVS CLG COIL BVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2302C	3	M11-1	2	D6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
FRVS CLG COIL CVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2302D	3	M11-1	2	C6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
FRVS CLG COIL DVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2302E	3	M11-1	2	B6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
FRVS CLG COIL EVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2302F	3	M11-1	2	F6	B	ACTIVE	4	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
FRVS CLG COIL FVH213 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2317A	3	M11-1	2	D4	B	ACTIVE	8	MO	BFY	A	C	N/A	FSC	Q		OP-IS.EG-0101(Q)	
FPCC HEAT EXCHANGER CLG WTR SUPPLY CROSS-CONNECT VALVE													PIT	2YR		OP-IS.EG-0101(Q)	
													STC	Q		OP-IS.EG-0101(Q)	
1EGHV-2317B	3	M11-1	2	D4	B	ACTIVE	8	MO	BFY	A	C	N/A	FSC	Q		OP-IS.EG-0102(Q)	
FPCC HEAT EXCHANGER CLG WTR SUPPLY CROSS-CONNECT VALVE													PIT	2YR		OP-IS.EG-0102(Q)	
													STC	Q		OP-IS.EG-0102(Q)	
1EGHV-2320A	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	O	N/A	FSO	Q		OP-IS.EG-0101(Q)	
PCIG COMP CLR AK202 CLG WTR RETURN VALVE													PIT	2YR		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2320B	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	O	N/A	FSO	Q		OP-IS.EG-0102(Q)	
PCIG COMP CLR BK202 CLG WTR RETURN VALVE													PIT	2YR		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	

System: EG **Third 10-Year Interval**

SAFETY AUXILIARIES COOLING

(SACS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EGHV-2321A	3	M11-1	2	G3	B	ACTIVE	2	MO	GB	A	C	N/A	FSC	Q		OP-IS.EG-0101(Q)	
PCIG COMP CLR CLG WTR RETURN CROSS-CONNECT VALVE													PIT	2YR		OP-IS.EG-0101(Q)	
													STC	Q		OP-IS.EG-0101(Q)	
1EGHV-2321B	3	M11-1	2	G3	B	ACTIVE	2	MO	GB	A	C	N/A	FSC	Q		OP-IS.EG-0102(Q)	
PCIG COMP CLR CLG WTR RETURN CROSS-CONNECT VALVE													PIT	2YR		OP-IS.EG-0102(Q)	
													STC	Q		OP-IS.EG-0102(Q)	
1EGHV-2325A	3	M11-1	2	F3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
CORE SPRAY PMP RM CLG UNIT AVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2325B	3	M11-1	2	D3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
CORE SPRAY PMP RM CLG UNIT BVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2325C	3	M11-1	2	G3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
CORE SPRAY PMP RM CLG UNIT CVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2325D	3	M11-1	2	C3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
CORE SPRAY PMP RM CLG UNIT DVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2325E	3	M11-1	2	E3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
CORE SPRAY PMP RM CLG UNIT EVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2325F	3	M11-1	2	D3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
CORE SPRAY PMP RM CLG UNIT FVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2325G	3	M11-1	2	F3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0101(Q)	
CORE SPRAY PMP RM CLG UNIT GVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0101(Q)	
													STO	Q		OP-IS.EG-0101(Q)	
1EGHV-2325H	3	M11-1	2	B3	B	ACTIVE	3	AO	BALL	C	O	O	FSO	Q		OP-IS.EG-0102(Q)	
CORE SPRAY PMP RM CLG UNIT HVH211 CLG WTR SUPPLY VALVE													FSTO	Q		OP-IS.EG-0102(Q)	
													STO	Q		OP-IS.EG-0102(Q)	
1EGHV-2395A	3	M12-1	1	D7	B	ACTIVE	8	AO	BFY	C	O	O	SKID	Q		OP-ST.KJ-0001(Q)	
EDG SACS OUTLET ISO VALVE																	

System: EG
SAFETY AUXILIARIES COOLING
(SACS)

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1EGHV-2395B *EDG SACS OUTLET ISO VALVE*	3	M12-1	1	D4	B	ACTIVE	8	AO	BFY	C	O	O	SKID	Q		OP-ST.KJ-0002(Q)	
1EGHV-2395C *EDG SACS OUTLET ISO VALVE*	3	M12-1	1	D5	B	ACTIVE	8	AO	BFY	C	O	O	SKID	Q		OP-ST.KJ-0003(Q)	
1EGHV-2395D *EDG SACS OUTLET ISO VALVE*	3	M12-1	1	D2	B	ACTIVE	8	AO	BFY	C	O	O	SKID	Q		OP-ST.KJ-0004(Q)	
1EGHV-2398A *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	D7	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2398B *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	D5	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2398C *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	D6	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2398D *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	D3	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2398E *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	C7	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2398F *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	F4	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2398G *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	C6	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2398H *EDG ROOM COOLER SACS SUPPLY ISO VALVE*	3	M12-1	1	C3	B	ACTIVE	6	AO	BALL	C	O	O	FSO FSTO STO	Q Q Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	

System: EG
SAFETY AUXILIARIES COOLING
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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EGHV-2446 *SACS SERVICE WATER MAKEUP ISO VALVE*	3	M10-1	2	B7	B	ACTIVE	2	MO	GB	C	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2447 *SACS SERVICE WATER MAKEUP ISO VALVE*	3	M10-1	2	B3	B	ACTIVE	2	MO	GB	C	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2452A *PCIG COMP CLR AK202 CLG WTR SUPPLY VALVE*	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2452B *PCIG COMP CLR BK202 CLG WTR SUPPLY VALVE*	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2453A *PCIG COMP CLR CLG WTR SUPPLY CROSS-CONNECT VALVE*	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2453B *PCIG COMP CLR CLG WTR SUPPLY CROSS-CONNECT VALVE*	3	M11-1	2	G4	B	ACTIVE	2	MO	GB	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2457A *SACS HEAT EXCHANGER TEMP CONTROL BYPASS ISO VALVE*	3	M11-1	1	H7	B	ACTIVE	20	AO	BFY	O	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2457B *SACS HEAT EXCHANGER TEMP CONTROL BYPASS ISO VALVE*	3	M11-1	1	B7	B	ACTIVE	20	AO	BFY	O	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2491A *SACS HEAT EXCHANGER A1E201 INLET VALVE*	3	M11-1	1	F7	B	ACTIVE	30	MO	BFY	A	0	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0003(Q) OP-IS.EG-0003(Q) OP-IS.EG-0003(Q)	
1EGHV-2491B *SACS HEAT EXCHANGER B1E201 INLET VALVE*	3	M11-1	1	C7	B	ACTIVE	30	MO	BFY	A	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0004(Q) OP-IS.EG-0004(Q) OP-IS.EG-0004(Q)	

System: EG
SAFETY AUXILIARIES COOLING (SACS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EGHV-2494A *SACS HEAT EXCHANGER A2E201 INLET VALVE*	3	M11-1	1	E7	B	ACTIVE	30	MO	BFY	A	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0001(Q) OP-IS.EG-0001(Q) OP-IS.EG-0001(Q)	
1EGHV-2494B *SACS HEAT EXCHANGER B2E201 INLET VALVE*	3	M11-1	1	B7	B	ACTIVE	30	MO	BFY	A	O	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0002(Q) OP-IS.EG-0002(Q) OP-IS.EG-0002(Q)	
1EGHV-2496A *SACS/TACS RETURN ISOLATION VALVE*	3	M11-1	1	E8	B	ACTIVE	30	MO	BFY	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0001(Q) OP-IS.EG-0001(Q) OP-IS.EG-0001(Q)	
1EGHV-2496B *SACS/TACS RETURN ISOLATION VALVE*	3	M11-1	1	D8	B	ACTIVE	30	MO	BFY	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0002(Q) OP-IS.EG-0002(Q) OP-IS.EG-0002(Q)	
1EGHV-2496C *SACS/TACS RETURN ISOLATION VALVE*	3	M11-1	1	E8	B	ACTIVE	30	MO	BFY	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0003(Q) OP-IS.EG-0003(Q) OP-IS.EG-0003(Q)	
1EGHV-2496D *SACS/TACS RETURN ISOLATION VALVE*	3	M11-1	1	D8	B	ACTIVE	30	MO	BFY	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0004(Q) OP-IS.EG-0004(Q) OP-IS.EG-0004(Q)	
1EGHV-2512A *RHR HEAT EXCHANGER AE205 CLG WTR OUTLET ISO VALVE*	3	M11-1	1	G3	B	ACTIVE	20	MO	BFY	C	O/	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2512B *RHR HEAT EXCHANGER BE205 CLG WTR OUTLET ISO VALVE*	3	M11-1	1	B3	B	ACTIVE	20	MO	BFY	C	O/	N/A	FSO PIT STO	Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2520A *RHR PMP AP202 CLR CLG WTR SUPPLY ISO VALVE*	3	M11-1	1	F2	B	ACTIVE	2	AO	GB	C	O	O	FSO FSTO PIT STO	Q Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2520B *RHR PMP BP202 CLR CLG WTR SUPPLY ISO VALVE*	3	M11-1	1	C2	B	ACTIVE	2	AO	GB	C	O	O	FSO FSTO PIT STO	Q Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	

System: EG
SAFETY AUXILIARIES COOLING (SACS)

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EGHV-2520C *RHR PMP CP202 CLR CLG WTR SUPPLY ISO VALVE*	3	M11-1	1	F1	B	ACTIVE	2	AO	GB	C	O	O	FSO FSTO PIT STO	Q Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	
1EGHV-2520D *RHR PMP DP202 CLR CLG WTR SUPPLY ISO VALVE*	3	M11-1	1	E1	B	ACTIVE	2	AO	GB	C	O	O	FSO FSTO PIT STO	Q Q 2YR Q		OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q) OP-IS.EG-0102(Q)	
1EGHV-2522A *SACS/TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	E3	B	ACTIVE	30	HO	BFY	A	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0001(Q) OP-IS.EG-0001(Q) OP-IS.EG-0001(Q) OP-IS.EG-0001(Q)	
1EGHV-2522B *SACS/TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	D2	B	ACTIVE	30	HO	BFY	A	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0002(Q) OP-IS.EG-0002(Q) OP-IS.EG-0002(Q) OP-IS.EG-0002(Q)	
1EGHV-2522C *SACS/TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	E2	B	ACTIVE	30	HO	BFY	A	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0003(Q) OP-IS.EG-0003(Q) OP-IS.EG-0003(Q) OP-IS.EG-0003(Q)	
1EGHV-2522D *SACS/TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	D2	B	ACTIVE	30	HO	BFY	A	C	C	FSC FSTC PIT STC	Q Q 2YR Q		OP-IS.EG-0004(Q) OP-IS.EG-0004(Q) OP-IS.EG-0004(Q) OP-IS.EG-0004(Q)	
1EGHV-2522E *TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	D2	B	ACTIVE	30	HO	BFY	O	C	N/A	FSC PIT STC	CS 2YR CS	CS-14 CS-14	OP-IS.EG-0103(Q) OP-IS.EG-0103(Q) OP-IS.EG-0103(Q)	
1EGHV-2522F *TACS SUPPLY ISOLATION VALVE*	3	M11-1	1	D2	B	ACTIVE	30	HO	BFY	O	C	N/A	FSC PIT STC	CS 2YR CS	CS-14 CS-14	OP-IS.EG-0103(Q) OP-IS.EG-0103(Q) OP-IS.EG-0103(Q)	
1EGHV-7922A *FPCC HEAT EXCHANGER CLG WTR RETURN CROSS-CONNECT VALVE*	3	M11-1	2	C4	B	ACTIVE	8	MO	BFY	A	C	N/A	FSC PIT STC	Q 2YR Q		OP-IS.EG-0101(Q) OP-IS.EG-0101(Q) OP-IS.EG-0101(Q)	

System: EG
SAFETY AUXILIARIES COOLING
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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EGHV-7922B	3	M11-1	2	C4	B	ACTIVE	8	MO	BFY	A	C	N/A	FSC	Q		OP-IS.EG-0102(Q)	
FPCC HEAT EXCHANGER CLG WTR RETURN CROSS-CONNECT VALVE													PIT	2YR		OP-IS.EG-0102(Q)	
													STC	Q		OP-IS.EG-0102(Q)	
1EGPCV-2393A	3	M11-1	3	F3	B	ACTIVE	4	AO	GT	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
1E PANEL ROOM CHILLER SACS OUTLET PRESURE CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1EGPCV-2393B	3	M11-1	3	D3	B	ACTIVE	4	AO	GT	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
1E PANEL ROOM CHILLER SACS OUTLET PRESURE CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1EGPCV-2499A	3	M12-1	1	B5	B	ACTIVE	6	AO	BFY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL ROOM CHILLER SACS OUTLET PRESS CONT VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1EGPCV-2499B	3	M12-1	1	B5	B	ACTIVE	6	AO	BFY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL ROOM CHILLER SACS OUTLET PRESS CONT VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1EGPSV-2266	3	M11-1	3	G5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS SUPPLY SIDE ACUMULATOR RELIEF VALVE																	
1EGPSV-2409A	3	M12-1	1	E6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
EDG SACS RELIEF VALVE																	
1EGPSV-2409B	3	M12-1	1	E3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
EDG SACS RELIEF VALVE																	
1EGPSV-2409C	3	M12-1	1	E5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
EDG SACS RELIEF VALVE																	
1EGPSV-2409D	3	M12-1	1	E2	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
EDG SACS RELIEF VALVE																	
1EGPSV-2490A	3	M11-1	1	G7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	TRV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER A1E201 RELIEF VALVE																	

System: EG **Third 10-Year Interval**
SAFETY AUXILIARIES COOLING
(SACS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1EGPSV-2490B	3	M11-1	1	D7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	TRV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER B1E201 RELIEF VALVE																	
1EGPSV-2495A	3	M11-1	1	F7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER A2E201 RELIEF VALVE																	
1EGPSV-2495B	3	M11-1	1	C7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS HEAT EXCHANGER B2E201 RELIEF VALVE																	
1EGPSV-2513A	3	M11-1	1	G3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR HEAT EXCHANGER AE205 SACS SIDE RELIEF VALVE																	
1EGPSV-2513B	3	M11-1	1	A3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR HEAT EXCHANGER BE205 SACS SIDE RELIEF VALVE																	
1EGPSV-2519	3	M11-1	3	E5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS RETURN SIDE ACUMULATOR RELIEF VALVE																	
1EGPSV-2530A	3	M11-1	2	D4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
FPCC HEAT EXCHANGER AE202 CLG WTR HEADER RELIEF VALVE																	
1EGPSV-2530B	3	M11-1	2	B4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
FPCC HEAT EXCHANGER BE202 CLG WTR HEADER RELIEF VALVE																	
1EGPSV-6220A	3	M11-1	1	G3	C	ACTIVE	4	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR HEAT EXCHANGER AE205 SACS OUTLET RELIEF VALVE																	
1EGPSV-6220B	3	M11-1	1	B3	C	ACTIVE	4	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RHR HEAT EXCHANGER BE205 SACS OUTLET RELIEF VALVE																	
1EGSV-2281-1	3	M11-1	3	G6		N/A	1	SO	GB	N/A	N/	N/A	SKID	Q		OP-DL.ZZ-0006(Q)	
SACS SUPPLY SIDE ACCUM NITROGEN SUPPLY ISO VALVE																	

System: EG
SAFETY AUXILIARIES COOLING (SACS)

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1EGSV-2281-2	3	M11-1	3	G5	N/A	N/A	1	SO	GB	N/A	N/	N/A	SKID	Q		OP-DL.ZZ-0006(Q)	
SACS SUPPLY SIDE ACCUM NITROGEN VENT ISO VALVE																	
1EGSV-2288-1	3	M11-1	3	E6	N/A	N/A	1	SO	GB	N/A	N/	N/A	SKID	Q		OP-DL.ZZ-0006(Q)	
SACS RETURN SIDE ACCUM NITROGEN SUPPLY ISO VALVE																	
1EGSV-2288-2	3	M11-1	3	E5	B	N/A	1	SO	GB	N/A	N/	N/A	SKID	Q		OP-DL.ZZ-0006(Q)	
SACS RETURN SIDE ACCUM NITROGEN VENT ISO VALVE																	
1EGV-010	3	M11-1	1	F4	C	ACTIVE	20	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EG-0003(Q)	
SACS PUMP AP210 DISCHARGE CHECK VALVE													CTO	Q		OP-IS.EG-0001(Q)	
1EGV-013	3	M11-1	1	E4	C	ACTIVE	20	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EG-0001(Q)	
SACS PUMP CP210 DISCHARGE CHECK VALVE													CTO	Q		OP-IS.EG-0003(Q)	
1EGV-016	3	M11-1	1	D4	C	ACTIVE	20	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EG-0004(Q)	
SACS PUMP BP210 DISCHARGE CHECK VALVE													CTO	Q		OP-IS.EG-0002(Q)	
1EGV-019	3	M11-1	1	C4	C	ACTIVE	20	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EG-0002(Q)	
SACS PUMP DP210 DISCHARGE CHECK VALVE													CTO	Q		OP-IS.EG-0004(Q)	
1EGV-029	3	M11-1	3	D4	C	ACTIVE	30	SELF	CK	O	C	N/A	BDO	RF	RJ-11	OP-IS.EG-0103(Q)	
TACS RETURN CHECK VALVE													CTC	RF	RJ-11	OP-IS.EG-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 24 TACS Return to SACS																	
1EGV-031	3	M11-1	3	D4	C	ACTIVE	30	SELF	CK	O	C	N/A	BDO	RF	RJ-11	OP-IS.EG-0103(Q)	
TACS RETURN CHECK VALVE													CTC	RF	RJ-11	OP-IS.EG-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 24 TACS Return to SACS																	
1EGV-1167	3	M11-1	3	C8	C	ACTIVE	1.5	SELF	CK	O	C	N/A	BDO	Q		CH-TI.ZZ-0013(Q)	
SACS DEMINERALIZER AT203 OUTLET CHECK VALVE													CTC	Q		OP-IS.EG-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 25 SACS Demin Outlet																	

System: EG
SAFETY AUXILIARIES COOLING (SACS)

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EGV-1168	3	M11-1	3	A8	C	ACTIVE	1.5	SELF	CK	O	C	N/A	BDO	Q		CH-TI.ZZ-0013(Q)	
SACS DEMINERALIZER BT203 OUTLET CHECK VALVE													CTC	Q		OP-IS.EG-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 25 SACS Demin Outlet																	
1EGV-1169	3	M11-1	3	C7	C	ACTIVE	1.5	SELF	CK	O	C	N/A	BDO	Q		CH-TI.ZZ-0013(Q)	
SACS DEMINERALIZER AT203 OUTLET CHECK VALVE													CTC	Q		OP-IS.EG-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 25 SACS Demin Outlet																	
1EGV-1170	3	M11-1	3	A7	C	ACTIVE	1.5	SELF	CK	O	C	N/A	BDO	Q		CH-TI.ZZ-0013(Q)	
SACS DEMINERALIZER BT203 OUTLET CHECK VALVE													CTC	Q		OP-IS.EG-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 25 SACS Demin Outlet																	
1EGV-704	3	M11-1	1	G2	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BC-0001(Q)	
RHR PUMP AP202 CLR CLG WTR DISCH CHECK VALVE																	
1EGV-705	3	M11-1	1	G1	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BC-0002(Q)	
RHR PUMP CP202 CLR CLG WTR DISCH CHECK VALVE																	
1EGV-706	3	M11-1	1	C1	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BC-0004(Q)	
RHR PUMP DP202 CLR CLG WTR DISCH CHECK VALVE																	
1EGV-707	3	M11-1	1	B2	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BC-0003(Q)	
RHR PUMP BP202 CLR CLG WTR DISCH CHECK VALVE																	
1EGXV-1163	3	M11-1	3	C5	C	ACTIVE	2.0	SELF	XFV	O	C	N/A	BDO	Q		OP-IS.EG-0101(Q)	
SACS DEMINERALIZER AT203 INLET EXCESS FLOW CHECK VALVE													CTC	Q		OP-IS.EG-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 36 Class 3 Excess Flow																	
1EGXV-1164	3	M11-1	3	A5	C	ACTIVE	2.0	SELF	XFV	O	C	N/A	BDO	Q		OP-IS.EG-0102(Q)	
SACS DEMINERALIZER BT203 INLET EXCESS FLOW CHECK VALVE													CTC	Q		OP-IS.EG-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 36 Class 3 Excess Flow																	

System: EP **Third 10-Year Interval**
SERVICE WATER SCREEN
WASH

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1EPHV-2225A	3	M10-1	1	D7	B	ACTIVE	6	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EP-0101(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH ISO VALVE													PIT	2YR		OP-IS.EP-0101(Q)	
													STO	Q		OP-IS.EP-0101(Q)	
1EPHV-2225B	3	M10-1	1	D4	B	ACTIVE	6	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EP-0102(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH ISO VALVE													PIT	2YR		OP-IS.EP-0102(Q)	
													STO	Q		OP-IS.EP-0102(Q)	
1EPHV-2225C	3	M10-1	1	D6	B	ACTIVE	6	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EP-0101(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH ISO VALVE													PIT	2YR		OP-IS.EP-0101(Q)	
													STO	Q		OP-IS.EP-0101(Q)	
1EPHV-2225D	3	M10-1	1	D3	B	ACTIVE	6	MO	BFY	A	O	N/A	FSO	Q		OP-IS.EP-0102(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH ISO VALVE													PIT	2YR		OP-IS.EP-0102(Q)	
													STO	Q		OP-IS.EP-0102(Q)	
1EPV-003	3	M10-1	1	D7	C	ACTIVE	6	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EP-0101(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.EP-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 26 SW Traveling Screen pump Discharge																	
1EPV-007	3	M10-1	1	D6	B	ACTIVE	6	MAN	BFY	C	O	N/A	FSO			OP-IS.EP-0101(Q)	
TRAVELING SCREEN SPRAY WATER CROSS-CONNECT VALVE																	
1EPV-010	3	M10-1	1	D5	C	ACTIVE	6	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EP-0101(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.EP-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 26 SW Traveling Screen pump Discharge																	
1EPV-016	3	M10-1	1	D4	C	ACTIVE	6	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EP-0102(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.EP-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 26 SW Traveling Screen pump Discharge																	
1EPV-020	3	M10-1	1	D3	B	ACTIVE	6	MAN	BFY	C	O	N/A	FSO			OP-IS.EP-0102(Q)	
TRAVELING SCREEN SPRAY WATER CROSS-CONNECT VALVE																	
1EPV-023	3	M10-1	1	D3	C	ACTIVE	6	SELF	CK	A	O/	N/A	CTC	Q		OP-IS.EP-0102(Q)	
TRAVELING SCREEN SPRAY WATER PUMP DISCH CHECK VALVE													CTO	Q		OP-IS.EP-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 26 SW Traveling Screen pump Discharge																	

System: FC
REACTOR CORE ISOLATION COOLING STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1FCHV-4282	2	M50-1	1	E3	B	ACTIVE	3	MO	GB	O	O/	N/A	SKID	Q		OP-IS.BD-0001(Q)	
RCIC TURBINE TRIP THROTTLE VALVE																	
1FCHV-F004	2	M50-1	1	B4	B	ACTIVE	2	AO	GB	O	C	C	SKID	Q		OP-IS.BD-0001(Q)	
RCIC VACUUM TANK COND PUMP DISCH TO CRW ISO VALVE																	
1FCHV-F007	1	M49-1	1	E6	A	ACTIVE	4	MO	GT	O	O/	N/A	FSC	CS	CS-24	OP-IS.BD-0102(Q)	
RCIC STEAM SUPPLY INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0102(Q)	
										CIV: Yes			STC	CS	CS-24	OP-IS.BD-0102(Q)	
1FCHV-F008	1	M49-1	1	E6	A	ACTIVE	4	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC STEAM SUPPLY OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	
1FCHV-F025	2	M49-1	1	C2	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BD-0101(Q)	
RCIC STEAM LINE DRAIN INBD ISO VALVE													FSTC	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
1FCHV-F026	2	M49-1	1	B2	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BD-0101(Q)	
RCIC STEAM LINE DRAIN OTBD ISO VALVE													FSTC	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
1FCHV-F045	2	M50-1	1	E3	B	ACTIVE	4	MO	GB	C	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC TURBINE STEAM SUPPLY VALVE													FSO	Q		OP-IS.BD-0101(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
													STC	Q		OP-IS.BD-0101(Q)	
													STO	Q		OP-IS.BD-0101(Q)	
1FCHV-F059	2	M49-1	1	C6	A	ACTIVE	10	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC TURBINE EXHAUST TO SUPPRESSION POOL CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	

System: FC
REACTOR CORE ISOLATION
COOLING STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1FCHV-F060	2	M49-1	1	B5	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC VACUUM PUMP DISCH TO SUPP POOL CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	
1FCHV-F062	2	M49-1	1	C7	A	ACTIVE	3	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC TURBINE EXHAUST VACUUM BREAKER CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	
1FCHV-F076	1	M49-1	1	E6	A	ACTIVE	2	MO	GB	C	C	N/A	FSC	CS	CS-24	OP-IS.BD-0102(Q)	
RCIC WARMUP LINE INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0102(Q)	
										CIV: Yes			STC	CS	CS-24	OP-IS.BD-0102(Q)	
1FCHV-F084	2	M49-1	1	C8	A	ACTIVE	3	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BD-0101(Q)	
RCIC TURBINE EXHAUST VACUUM BREAKER CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BD-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BD-0101(Q)	
1FCLV-F005	2	M50-1	1	A4	B	ACTIVE	1	AO	GB	O/C	C	C	SKID	Q		OP-IS.BD-0001(Q)	
RCIC VACUUM TANK LEVEL CONTROL VALVE																	
										CIV: Yes							
1FCPSE-D001	2	M50-1	1	E4	D	ACTIVE	8	SELF	RD	C	O/	N/A	EX	5YR		SH.RA-AP.ZZ-0010(Q)	
RCIC TURBINE EXHAUST RUPTURE DISK																	
1FCPSE-D002	2	M50-1	1	G4	D	ACTIVE	8	SELF	RD	C	O/	N/A	EX	5YR		SH.RA-AP.ZZ-0010(Q)	
RCIC TURBINE EXHAUST RUPTURE DISK																	
1FCPSV-F018	2	M50-1	1	C5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RCIC LUBE OIL COOLER COOLING WATER SUPPLY RELIEF VALVE																	
1FCPSV-F033	2	M50-1	1	C3	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RCIC GLAND SEAL COND RELIEF VALVE																	

System: FC
REACTOR CORE ISOLATION
COOLING STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1FCPSV-F063	2	M49-1	1	C7	C	ACTIVE	2	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RCIC TURBINE EXHAUST VACUUM BREAKER																	
1FCPSV-F064	2	M49-1	1	C7	C	ACTIVE	2	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RCIC TURBINE EXHAUST VACUUM BREAKER																	
1FCV-003	2	M49-1	1	C4	AC	ACTIVE	10	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BD-0101(Q)	
RCIC TURBINE EXHAUST CHECK VALVE													CTO	Q		OP-IS.BD-0101(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 27 Turbine Exhaust (RCIC)										CIV: Yes							
1FCV-010	2	M49-1	1	C4	AC	ACTIVE	2	SELF	CK	C	C	N/A	BDO	Q		OP-IS.BD-0001(Q)	
RCIC VACUUM PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BD-0101(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 29 RCIC Vac Pump Discharge										CIV: Yes							
1FCV-030	N	M49-1	1	B3	N/A	N/A	1.25	SELF	CK	C	N/	N/A	SKID	Q		OP-IS.BD-0001(Q)	
RCIC VACUUM TANK COND PUMP DISCH CHECK VALVE																	
1FCXV-4150A	1	M49-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RCIC STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1FCXV-4150B	1	M49-1	1	D6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RCIC STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1FCXV-4150C	1	M49-1	1	F6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RCIC STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1FCXV-4150D	1	M49-1	1	D6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
RCIC STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: FD **Third 10-Year Interval**
HIGH PRESSURE COOLANT
INJECTION STEAM

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1FDFV-4879	2	M56-1	1	F3	N/A	ACTIVE	10	HO	GT	C	O/	C	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE GOVENOR VALVE																	
1FDFV-4880	2	M56-1	1	F3	B	ACTIVE	10	HO	GB	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE STEAM STOP VALVE																	
1FDHV-F001	2	M55-1	1	D3	B	ACTIVE	10	MO	GT	C	O	N/A	FSO	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE STEAM SUPPLY VALVE													PIT	2YR		OP-IS.BJ-0001(Q)	
													STO	Q		OP-IS.BJ-0001(Q)	
1FDHV-F002	1	M55-1	1	F6	A	ACTIVE	10	MO	GT	O	O/	N/A	FSC	CS	CS-23	OP-IS.BJ-0102(Q)	
HPCI STEAM SUPPLY INBD CONT ISOL VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0102(Q)	
										CIV: Yes			STC	CS	CS-23	OP-IS.BJ-0102(Q)	
1FDHV-F003	1	M55-1	1	F6	A	ACTIVE	10	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI STEAM SUPPLY OTBD CONT ISOL VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F026	2	M56-1	1	B5	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI VACUUM TANK COND PUMP DISCH TO CRW ISO VALVE													FSTC	Q		OP-IS.BJ-0101(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F028	2	M55-1	1	C3	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI STEAM LINE DRAIN INBD ISO VALVE													FSTC	Q		OP-IS.BJ-0101(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F029	2	M55-1	1	C3	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI STEAM LINE DRAIN OTBD ISO VALVE													FSTC	Q		OP-IS.BJ-0101(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
													STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F071	2	M55-1	1	C7	A	ACTIVE	20	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI TURBINE EXHAUST TO SUPPRESSION POOL CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	

System: FD
HIGH PRESSURE COOLANT INJECTION STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1FDHV-F075	2	M55-1	1	C7	A	ACTIVE	3	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI TURBINE EXHAUST VACUUM BREAKER OTBD CONT ISO VALVE													LJ	18 MO		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F079	2	M55-1	1	C8	A	ACTIVE	3	MO	GT	O	O/	N/A	FSC	Q		OP-IS.BJ-0101(Q)	
HPCI TURBINE EXHAUST TO SUPPRESSION POOL CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.BJ-0101(Q)	
1FDHV-F100	1	M55-1	1	F6	A	ACTIVE	2	MO	GB	C	C	N/A	FSC	CS	CS-23	OP-IS.BJ-0102(Q)	
HPCI WARMUP LINE INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.BJ-0102(Q)	
										CIV: Yes			STC	CS	CS-23	OP-IS.BJ-0102(Q)	
1FDPSE-D003	2	M56-1	1	E4	D	ACTIVE	16	SELF	RD	C	O/	N/A	EX	5YR		SH.RA-AP.ZZ-0010(Q)	
HPCI TURBINE EXHAUST RUPTURE DISK																	
1FDPSE-D004	2	M56-1	1	G4	D	ACTIVE	16	SELF	RD	C	O/	N/A	EX	5YR		SH.RA-AP.ZZ-0010(Q)	
HPCI TURBINE EXHAUST RUPTURE DISK																	
1FDPSV-F018	2	M56-1	1	C2	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
HPCI BAROMETRIC COND RELIEF VALVE																	
1FDPSV-F050	2	M56-1	1	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
HPCI LUBE OIL COOLER COOLING WATER SUPPLY RELIEF VALVE																	
1FDPSV-F076	2	M55-1	1	C7	C	ACTIVE	3	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
HPCI TURBINE EXHAUST VACUUM BREAKER																	
1FDPSV-F077	2	M55-1	1	C8	C	ACTIVE	3	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
HPCI TURBINE EXHAUST VACUUM BREAKER																	
1FDV-004	2	M55-1	1	C4	AC	ACTIVE	20	SELF	MCK	C	O/	N/A	CTC	Q		OP-IS.BJ-0101(Q)	
HPCI TURBINE EXHAUST CHECK VALVE													CTO	Q		OP-IS.BJ-0101(Q)	
													LJ	18 MO		RA-IS.ZZ-0010(Q)	
CMP Active: NO CMP: Yes CMP Group 28 Turbine Exhaust (HPCI)										CIV: Yes							

System: FD
HIGH PRESSURE COOLANT INJECTION STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1FDV-030	N	M56-1	1	B4	N/A	N/A	1.25	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI VACUUM TANK COND PUMP DISCH CHECK VALVE																	
1FDV-032	2	M56-1	1	B4	C	ACTIVE	2	SELF	CK	C	C	N/A	BDO	Q		OP-IS.BJ-0001(Q)	
HPCI VACUUM TANK COND PUMP DISCH CHECK VALVE													CTC	Q		OP-IS.BJ-0101(Q)	
1FDV-038	2	M56-1	1	C4	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI LUBE OIL COOLER COOLING WATER OUTLET CHECK VALVE																	
1FDV-076	N	M56-1	1	G1	C	ACTIVE	1.5	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE AUX OIL PUMP SUCTION CHECK VALVE																	
1FDV-077	N	M56-1	1	G1	C	ACTIVE	1.5	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE AUX OIL PUMP DISCH CHECK VALVE																	
1FDV-078	N	M56-1	1	G1	C	ACTIVE	1	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE PILOT VALVE OIL SUPPLY CHECK VALVE																	
1FDV-079	N	M56-1	1	G1	C	ACTIVE	2	SELF	CK	C	O	N/A	SKID	Q		OP-IS.BJ-0001(Q)	
HPCI TURBINE MAIN OIL PUMP DISCH CHECK VALVE																	
1FDXV-4800A	1	M55-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
HPCI STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1FDXV-4800B	1	M55-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
HPCI STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							
1FDXV-4800C	1	M55-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
HPCI STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: FD
HIGH PRESSURE COOLANT INJECTION STEAM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1FDXV-4800D	1	M55-1	1	E6	C	ACTIVE	1	SELF	XFV	O	O/	N/A	BDO	TS	CMP	IC-FT.ZZ-0006(Q)	
HPCI STEAM FLOW INSTRUMENT LINE EXCESS FLOW CHECK VALVE													CTC	TS	CMP	IC-FT.ZZ-0006(Q)	
													PIT	TS	CMP	IC-FT.ZZ-0006(Q)	
CMP Active: NO CMP: Yes CMP Group 35 Class 1 Excess Flow										CIV: Yes							

System: GB
CHILLED WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GBHV-9531A1	2	M87-1	2	B4	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER SUPPLY OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531A2	2	M87-1	2	B4	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER RETURN OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531A3	2	M87-1	2	A4	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER SUPPLY OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531A4	2	M87-1	2	A4	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER RETURN OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531B1	2	M87-1	2	B3	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER SUPPLY INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531B2	2	M87-1	2	B3	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER RETURN INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531B3	2	M87-1	2	A3	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER SUPPLY INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	
1GBHV-9531B4	2	M87-1	2	A3	A	ACTIVE	8	MO	GT	O	C	N/A	FSC	Q		OP-IS.GB-0101(Q)	
DRYWELL CHILLED WATER RETURN INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GB-0101(Q)	

System: GB
CHILLED WATER

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GBPSV-9522A	2	M87-1	2	B3	AC	ACTIVE	1	SELF	RV	C	O/	N/A	LJ	RA-IS		ZZ-0010(Q)	
DRYWELL CHILLED WATER SUPPLY THERMAL RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1GBPSV-9522B	2	M87-1	2	A3	AC	ACTIVE	1	SELF	RV	C	O/	N/A	LJ	RA-IS		ZZ-0010(Q)	
DRYWELL CHILLED WATER SUPPLY THERMAL RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1GBPSV-9523A	2	M87-1	2	B3	AC	ACTIVE	1	SELF	RV	C	O/	N/A	LJ	RA-IS		ZZ-0010(Q)	
DRYWELL CHILLED WATER RETURN THERMAL RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1GBPSV-9523B	2	M87-1	2	A3	AC	ACTIVE	1	SELF	RV	C	O/	N/A	LJ	RA-IS		ZZ-0010(Q)	
DRYWELL CHILLED WATER RETURN THERMAL RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							

System: GJ **Third 10-Year Interval**
AUX. BLDG. CHILLED WATER -
CONTROL ROOM

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GJPSV-9634A	3	M90-1	1	G4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CONTROL EQUIPMENT ROOM A/C UNIT AVH407 CLG COIL RELIEF VALVE																	
1GJPSV-9634B	3	M90-1	2	G6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CONTROL EQUIPMENT ROOM A/C UNIT BVH407 CLG COIL RELIEF VALVE																	
1GJPSV-9637A	3	M90-1	1	F3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CONTROL ROOM A/C UNIT AVH403 COOLING COIL RELIEF VALVE																	
1GJPSV-9637B	3	M90-1	2	F3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CONTROL ROOM A/C UNIT BVH403 COOLING COIL RELIEF VALVE																	
1GJPSV-9652A	3	M90-1	1	A5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652A1	3	M90-1	1	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK400 OIL COOLER RELIEF VALVE																	
1GJPSV-9652A2	3	M90-1	1	A5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652A3	3	M90-1	1	A6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652A4	3	M90-1	1	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652B	3	M90-1	2	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652B1	3	M90-1	2	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK400 OIL COOLER RELIEF VALVE																	

System: GJ
AUX. BLDG. CHILLED WATER -
CONTROL ROOM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GJPSV-9652B2	3	M90-1	2	A5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652B3	3	M90-1	2	B6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9652B4	3	M90-1	2	B5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK400 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666A	3	M90-1	3	G7	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666A1	3	M90-1	3	G8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK403 OIL COOLER RELIEF VALVE																	
1GJPSV-9666A2	3	M90-1	3	F8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666A3	3	M90-1	3	F8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666A4	3	M90-1	3	F8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER AK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666B	3	M90-1	3	B7	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666B1	3	M90-1	3	B8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK403 OIL COOLER RELIEF VALVE																	
1GJPSV-9666B2	3	M90-1	3	A8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK403 EVAPORATOR RELIEF VALVE																	

System: GJ
AUX. BLDG. CHILLED WATER -
CONTROL ROOM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GJPSV-9666B3	3	M90-1	3	B8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9666B4	3	M90-1	3	A8	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
WATER CHILLER BK403 EVAPORATOR RELIEF VALVE																	
1GJPSV-9667A	3	M90-1	3	H4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CLASS 1E PNL RM SUPPLY A/C UNIT AVH408 CLG COIL RELIEF VALVE																	
1GJPSV-9667B	3	M90-1	3	C4	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
CLASS 1E PNL RM SUPPLY A/C UNIT BVH408 CLG COIL RELIEF VALVE																	
1GJPSV-9668A	3	M90-1	3	H3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
TSC A/C UNIT 00VH314 CLG COIL RELIEF VALVE																	
1GJPSV-9668B	3	M90-1	3	C3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
TSC A/C UNIT 00VH314 CLG COIL RELIEF VALVE																	
1GJTV-9634A	3	M90-1	1	G4	B	ACTIVE	6	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL EQUIPMENT RM A/C UNIT AVH407 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9634B	3	M90-1	2	G6	B	ACTIVE	6	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL EQUIPMENT RM A/C UNIT BVH407 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9637A	3	M90-1	1	G3	B	ACTIVE	4	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL ROOM A/C UNIT AVH403 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9637B	3	M90-1	2	G3	B	ACTIVE	4	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CONTROL ROOM A/C UNIT BVH403 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9667A	3	M90-1	3	G4	B	ACTIVE	4	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CLASS 1E PNL RM A/C UNIT AVH408 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	

System: GJ
AUX. BLDG. CHILLED WATER -
CONTROL ROOM

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GJTV-9667B	3	M90-1	3	B4	B	ACTIVE	4	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
CLASS 1E PNL RM A/C UNIT BVH408 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9762A	3	M90-1	3	G3	B	ACTIVE	3	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
TECH SUPPORT CENTER A/C UBIT 00VH314 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9762B	3	M90-1	3	B3	B	ACTIVE	3	AO	3WAY	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
TECH SUPPORT CENTER A/C UBIT 00VH314 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9768A	3	M90-1	3	F4	B	ACTIVE	1.5	AO	GT	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
REMOTE SHUTDOWN PNL RM A/C UNIT 00VH316 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	
1GJTV-9768B	3	M90-1	3	A4	B	ACTIVE	1.5	AO	GT	A	O	O	FSO	Q	V-07	OP-IS.EG-0102(Q)	
REMOTE SHUTDOWN PNL RM A/C UNIT 00VH316 TEMP CONTROL VALVE													FSTO	Q	V-07	OP-IS.EG-0102(Q)	

System: GP **Third 10-Year Interval**

PRIMARY CONTAINMENT

ILRT/LLRT

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GPV-001	2	M60-1	1	C4	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
DRYWELL ILRT LINE INBD CONT ISO VALVE										CIV: Yes							
1GPV-002	2	M60-1	1	C4	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
DRYWELL ILRT LINE OTBD CONT ISO VALVE										CIV: Yes							
1GPV-004	2	M60-1	1	C4	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
SUPP CHAMBER ILRT LINE CONT ISO VALVE										CIV: Yes							
1GPV-005	2	M60-1	1	C4	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
SUPP CHAMBER ILRT LINE CONT ISO VALVE										CIV: Yes							
1GPV-120	2	M60-1	1	E5	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
DRYWELL ILRT LINE INBD CONT ISO VALVE										CIV: Yes							
1GPV-122	2	M60-1	1	E4	A	PASSIVE	1	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
DRYWELL ILRT LINE OTBD CONT ISO VALVE										CIV: Yes							

System: GS **Third 10-Year Interval**
CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GSHV-11541	2	M57-1	1	D1	A	PASSIVE	12.0	AO	BFY	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
HARD PIPE VENT ISOLATION VALVE													PIT	2YR		OP-IS.GS-0102(Q)	
										CIV: Yes							
1GSHV-4950	2	M57-1	1	G7	A	ACTIVE	26	AO	BFY	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL PURGE EXHAUST OTBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4951	2	M57-1	1	F7	A	ACTIVE	2	AO	GB	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL PURGE EXHAUST OTBD CONT ISO BYPASS VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4952	2	M57-1	1	E6	A	ACTIVE	26	AO	BFY	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL PURGE EXHAUST INBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4955A	2	M57-1	1	E6	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4955B	2	M57-1	1	E5	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**
CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1GSHV-4956	2	M57-1	1	D5	A	ACTIVE	26	AO	BFY	C	C	C	FSC	Q		OP-IS-GS-0101(Q)	
DRYWELL PURGE SUPPLY INBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4958	2	M57-1	1	D4	A	ACTIVE	24	AO	BFY	C	C	C	FSC	Q		OP-IS-GS-0101(Q)	
SUPPRESSION CHAMBER PURGE SUPPLY INBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4959A	2	M57-1	1	C6	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4959B	2	M57-1	1	C5	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4962	2	M57-1	1	E7	A	ACTIVE	24	AO	BFY	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER PURGE EXHAUST OTBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4963	2	M57-1	1	E7	A	ACTIVE	2	AO	GB	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER PURGE EXHAUST OTBD CONT ISO BYPASS VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**

CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-4964	2	M57-1	1	D7	A	ACTIVE	24	AO	BFY	C	C	C	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER PURGE EXHAUST INBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4965A	2	M57-1	1	C7	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4965B	2	M57-1	1	C4	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
SUPPRESSION CHAMBER H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4966A	2	M57-1	1	C7	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
H2/O2 ANALYZER RETURN TO SUPPRESSION CHAMBER INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4966B	2	M57-1	1	C4	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
H2/O2 ANALYZER RETURN TO SUPPRESSION CHAMBER INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4974	2	M57-1	1	F5	A	ACTIVE	2	MO	GB	C	C	N/A	FSC	Q		OP-IS.GS-0101(Q)	
NITROGEN MAKEUP SUPPLY CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GS-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**
CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-4978	2	M57-1	1	E4	A	ACTIVE	6	AO	BFY	C	C	C	FSC	Q		OP-IS-GS-0101(Q)	
NITROGEN INERTING SUPPLY CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4979	2	M57-1	1	D3	A	ACTIVE	26	AO	BFY	C	C	C	FSC	Q		OP-IS-GS-0101(Q)	
DRYWELL PURGE SUPPLY OTBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4980	2	M57-1	1	D3	A	ACTIVE	24	AO	BFY	C	C	C	FSC	Q		OP-IS-GS-0101(Q)	
SUPPRESSION CHAMBER PURGE SUPPLY OTBD CONT ISO VALVE													FSTC	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
1GSHV-4983A	2	M57-1	1	E8	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4983B	2	M57-1	1	E4	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-4984A	2	M57-1	1	E8	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**

CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-4984B	2	M57-1	1	E4	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5019A	2	M57-1	1	E6	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5019B	2	M57-1	1	E5	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL H2/O2 ANALYZER INLET INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5022A	2	M57-1	1	C7	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
H2/O2 ANALYZER RETURN TO SUPPRESSION CHAMBER OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5022B	2	M57-1	1	B4	A	ACTIVE	2	MO	GB	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
H2/O2 ANALYZER RETURN TO SUPPRESSION CHAMBER OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**

CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-5029	2	M57-1	1	C7	A	ACTIVE	24	AO	BFY	C	O/	C	FSC	Q		OP-IS-GS-0101(Q)	
RB TO SUPP CHAMBER VACUUM RELIEF CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													FSTC	Q		OP-IS.GS-0101(Q)	
										CIV: Yes			LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5031	2	M57-1	1	C3	A	ACTIVE	24	AO	BFY	C	O/	C	FSC	Q		OP-IS-GS-0101(Q)	
RB TO SUPP CHAMBER VACUUM RELIEF CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													FSTC	Q		OP-IS.GS-0101(Q)	
										CIV: Yes			LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5050A	2	M58-1	1	E8	A	ACTIVE	4	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL TO HYDROGEN RECOMBINER A INBD CONT ISOL VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5050B	2	M58-1	1	B7	A	ACTIVE	4	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL TO HYDROGEN RECOMBINER B INBD CONT ISOL VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5052A	2	M58-1	1	E7	A	ACTIVE	4	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL TO HYDROGEN RECOMBINER A OTBD CONT ISOL VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**
CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-5052B	2	M58-1	1	B7	A	ACTIVE	4	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
DRYWELL TO HYDROGEN RECOMBINER B OTBD CONT ISOL VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5053A	2	M58-1	1	C2	A	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER A RETURN TO SUPP CHAMB OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5053B	2	M58-1	1	A3	A	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER B RETURN TO SUPP CHAMB OTBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5054A	2	M58-1	1	C2	A	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER A RETURN TO SUPP CHAMB INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5054B	2	M58-1	1	A3	A	ACTIVE	6	MO	GT	C	O/	N/A	FSC	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER B RETURN TO SUPP CHAMB INBD CONT ISO VALVE													FSO	Q		OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													STC	Q		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5057A	2	M58-1	1	C7	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.GS-0101(Q)	
RHR TO HYDROGEN RECOMBINER A ISOLATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	

System: GS **Third 10-Year Interval**

CONTAINMENT ATMOSPHERIC CONTROL

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSHV-5057B	2	M58-1	1	A7	B	ACTIVE	2	MO	GB	C	O/	N/A	FSO	Q		OP-IS.GS-0101(Q)	
RHR TO HYDROGEN RECOMBINER B ISOLATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5077A	2	M58-1	1	C3	B	ACTIVE	0.75	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
RHR TO HYDROGEN RECOMBINER A FLOW CONTROL VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5077B	2	M58-1	1	G1	B	ACTIVE	0.75	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
RHR TO HYDROGEN RECOMBINER B FLOW CONTROL VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5078A	2	M58-1	1	G5	B	ACTIVE	3	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER A GAS RECIRCULATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5078B	2	M58-1	1	G1	B	ACTIVE	3	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER B GAS RECIRCULATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5080A	2	M58-1	1	E7	B	ACTIVE	3	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER A INLET ISOLATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSHV-5080B	2	M58-1	1	G1	B	ACTIVE	3	MO	GB	C	O	N/A	FSO	Q		OP-IS.GS-0101(Q)	
HYDROGEN RECOMBINER B INLET ISOLATION VALVE													PIT	2YR		OP-IS.GS-0101(Q)	
													STO	Q		OP-IS.GS-0101(Q)	
1GSPSV-4946A	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946B	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946C	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946D	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	

System: GS
CONTAINMENT ATMOSPHERIC CONTROL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1GSPSV-4946E	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946F	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946G	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4946H	2	M57-1	1	C5	C	ACTIVE	12	SELF	RV	C	O/	N/A	RV	10YR		MD-ST.GS-0001(Q)	
SUPPRESSION CHAMBER TO DRYWELL PRESSURE RELIEF VALVE																	
1GSPSV-4986A1	3	M57-1	1	B6	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-4986A2	3	M57-1	1	B6	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-4986A3	3	M57-1	1	B5	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-4986B1	3	M57-1	1	B3	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-4986B2	3	M57-1	1	B3	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-4986B3	3	M57-1	1	B2	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-5030	2	M57-1	1	D7	AC	ACTIVE	24	SELF	RV	C	O/	N/A	FSC			OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VACUUM RELIEF VALVE													FSO			OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													RV	10YR		MD-GP.ZZ-0085(Q)	

System: GS
CONTAINMENT ATMOSPHERIC CONTROL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GSPSV-5032	2	M57-1	1	D3	AC	ACTIVE	24	SELF	RV	C	O/	N/A	FSC			OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VACUUM RELIEF VALVE													FSO			OP-IS.GS-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.GS-0101(Q)	
													RV	10YR		MD-GP.ZZ-0085(Q)	
1GSPSV-5745A1	3	M57-1	1	G3	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-5745B1	3	M57-1	1	G2	C	ACTIVE	1.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
H2/O2 ANALYZER CALIBRATION GAS SUPPLY LINE RELIEF VALVE																	
1GSPSV-6292A	3	M57-1	1	D7	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RB TO SUPP CHAMBER VAC RELIEF CONT ISO VLV AIR ACCUM RELIEF VLV																	
1GSPSV-6292B	3	M57-1	1	C3	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
RB TO SUPP CHAMBER VAC RELIEF CONT ISO VLV AIR ACCUM RELIEF VLV																	
1GSV-054	2	M57-1	1	E4	C	ACTIVE	1	SELF	CK	O/C	C	N/A	BDO	RF	RJ-13	OP-IS.GS-0102(Q)	
DRYWELL NITROGEN MAKEUP SUPPLY CHECK VALVE													CTC	RF	RJ-13	OP-IS.GS-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 30 Nitrogen Makeup Supply																	
1GSV-055	2	M57-1	1	D4	C	ACTIVE	1	SELF	CK	O/C	C	N/A	BDO	RF	RJ-13	OP-IS.GS-0102(Q)	
SUPPRESSION CHAMBER NITROGEN MAKEUP SUPPLY CHECK VALVE													CTC	RF	RJ-13	OP-IS.GS-0102(Q)	
CMP Active: NO CMP: Yes CMP Group 30 Nitrogen Makeup Supply																	
1GSV-081	3	M57-1	1	D7	AC	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VAC RELIEF VLV CONT ISO VLV INST AIR SUPPLY CK VALVE													CTC	Q		OP-IS.GS-0101(Q)	
													LT	Q		OP-IS.GS-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 31 Nitrogen Supply to Vac RLF																	
1GSV-093	3	M57-1	1	C2	AC	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VAC RELIEF VLV CONT ISO VLV INST AIR SUPPLY CK VALVE													CTC	Q		OP-IS.GS-0101(Q)	
													LT	Q		OP-IS.GS-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 31 Nitrogen Supply to Vac RLF																	

System: GS
CONTAINMENT ATMOSPHERIC CONTROL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1GSV-138	3	M57-1	1	C2	AC	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VAC RELIEF VLV CONT ISO VLV NITROGEN SUPPLY CK VALVE													CTC	Q		OP-IS.GS-0101(Q)	
													LT	Q		OP-IS.GS-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 31 Nitrogen Supply to Vac RLF																	
1GSV-139	3	M57-1	1	D7	AC	ACTIVE	1	SELF	CK	O	C	N/A	BDO	Q		OP-IS.GS-0101(Q)	
RB TO SUPP CHAMBER VAC RELIEF VLV CONT ISO VLV NITROGEN SUPPLY CK VALVE													CTC	Q		OP-IS.GS-0101(Q)	
													LT	Q		OP-IS.GS-0101(Q)	
CMP Active: NO CMP: Yes CMP Group 31 Nitrogen Supply to Vac RLF																	

System: HB
LIQUID RADWASTE

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1HBHV-F003	2	M61-1	1	H7	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.HB-0101(Q)	
DRYWELL FLOOR DRAIN SUMP DISCH INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.HB-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.HB-0101(Q)	
1HBHV-F004	2	M61-1	1	H6	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.HB-0101(Q)	
DRYWELL FLOOR DRAIN SUMP DISCH OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.HB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.HB-0101(Q)	
1HBHV-F019	2	M61-1	2	G6	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.HB-0101(Q)	
DRYWELL EQUIP DRAIN SUMP DISCH INBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.HB-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.HB-0101(Q)	
1HBHV-F020	2	M61-1	2	G6	A	ACTIVE	3	MO	GT	O	C	N/A	FSC	Q		OP-IS.HB-0101(Q)	
DRYWELL EQUIP DRAIN SUMP DISCH OTBD CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.HB-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.HB-0101(Q)	
1HBPSV-11701	3	M61-1	1	H7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
LIQUID RADWASTE DRAIN LINE RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1HBPSV-11702	3	M61-1	2	G6	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
LIQUID RADWASTE DRAIN LINE RELIEF VALVE													RV	10YR		MD-GP.ZZ-0085(Q)	
										CIV: Yes							
1HBPSV-11703	3	M61-1	2	G7	C	ACTIVE	0.75	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
LIQUID RADWASTE DRAIN LINE RELIEF VALVE																	
1HBPSV-11704	3	M61-1	1	G7	C	ACTIVE	0.75	SELF	RV	C	O	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
LIQUID RADWASTE DRAIN LINE RELIEF VALVE																	

System: JE
DIESEL FUEL OIL

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1JEV-001	3	M30-1	1	B7	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0002(Q)	
DIESEL FUEL OIL TRANSFER PUMP BP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0002(Q)	
1JEV-002	3	M30-1	1	D7	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0001(Q)	
DIESEL FUEL OIL TRANSFER PUMP AP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0001(Q)	
1JEV-003	3	M30-1	1	B4	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0004(Q)	
DIESEL FUEL OIL TRANSFER PUMP DP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0004(Q)	
1JEV-004	3	M30-1	1	D4	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0003(Q)	
DIESEL FUEL OIL TRANSFER PUMP CP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0003(Q)	
1JEV-005	3	M30-1	1	B5	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0006(Q)	
DIESEL FUEL OIL TRANSFER PUMP FP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0006(Q)	
1JEV-006	3	M30-1	1	D5	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0005(Q)	
DIESEL FUEL OIL TRANSFER PUMP EP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0005(Q)	
1JEV-007	3	M30-1	1	B2	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0008(Q)	
DIESEL FUEL OIL TRANSFER PUMP HP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0008(Q)	
1JEV-008	3	M30-1	1	D2	C	ACTIVE	2	SELF	CK	C	O	N/A	BDC	Q		OP-IS.JE-0007(Q)	
DIESEL FUEL OIL TRANSFER PUMP GP401 DISCH CHECK VALVE													CTO	Q		OP-IS.JE-0007(Q)	

System: KA
SERVICE COMPRESSED AIR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KA-V038	2	M15-0	4	B3	A	PASSIVE	3	MAN	GT	L	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
SERVICE AIR TO DRYWELL OTBD ISO VALVE																	
										CIV: Yes							
1KA-V039	2	M15-0	4	B3	A	PASSIVE	3	MAN	GT	L	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
SERVICE AIR TO DRYWELL INBD ISO VALVE																	
										CIV: Yes							

System: KB
INSTRUMENT CONTROL AIR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KBV-1243	3	M12-1	2	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0001(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1244	3	M12-1	2	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0001(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													CTC	Q		OP-IS.GJ-0001(Q)	
													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1245	3	M12-1	2	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0002(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1246	3	M12-1	2	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0002(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													CTC	Q		OP-IS.GJ-0002(Q)	
													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1247	3	M11-1	4	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0003(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1248	3	M11-1	4	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0003(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													CTC	Q		OP-IS.GJ-0003(Q)	
													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1249	3	M11-1	4	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0004(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	
1KBV-1250	3	M11-1	4	B-6	AC	ACTIVE	0.37	SELF	CK	O/C	C	N/A	BDO	Q		OP-IS.GJ-0004(Q)	
CHECK VALVE FOR SACS CONTROL VALVE BACKUP													CTC	Q		OP-IS.GJ-0004(Q)	
													LT	2YR		RA-IS.KB-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 37 SACS Control Valve Backup Air Supply																	

System: KG
BREATHING AIR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KGV-016	2	M15-1	1	B5	A	PASSIVE	2	MAN	GB	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
BREATHING AIR TO DRYWELL INBD CONT ISO VALVE																	
										CIV: Yes							
1KGV-034	2	M15-1	1	B6	A	PASSIVE	3	MAN	GT	C	C	N/A	LJ	2YR		RA-IS.ZZ-0010(Q)	
BREATHING AIR TO DRYWELL OTBD CONT ISO VALVE																	
										CIV: Yes							

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJPSV-7553A	3	M30-1	3	F8	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553B	3	M30-1	3	F8	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553C	3	M30-1	3	F4	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553D	3	M30-1	3	F4	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553E	3	M30-1	3	F6	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553F	3	M30-1	3	F6	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553G	3	M30-1	3	F3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7553H	3	M30-1	3	F3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL STARTING AIR RECEIVER RELIEF VALVE																	
1KJPSV-7831A	3	M30-1	2	D7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL JACKET WATER HEATER RELIEF VALVE																	
1KJPSV-7831B	3	M30-1	2	D4	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL JACKET WATER HEATER RELIEF VALVE																	
1KJPSV-7831C	3	M30-1	2	D6	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL JACKET WATER HEATER RELIEF VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJPSV-7831D	3	M30-1	2	D3	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
DIESEL JACKET WATER HEATER RELIEF VALVE																	
1KJSV-7534A	3	M30-1	3	D7	B	ACTIVE	0.5	SO	GB	C	O/	C	FSC	Q		OP-IS.KJ-0101(Q)	
DIESEL LUBE OIL MAKEUP ISOLATION VALVE													FSO	Q		OP-IS.KJ-0101(Q)	
													FSTC	Q		OP-IS.KJ-0101(Q)	
													STC	Q		OP-IS.KJ-0101(Q)	
													STO	Q		OP-IS.KJ-0101(Q)	
1KJSV-7534B	3	M30-1	3	F5	B	ACTIVE	0.5	SO	GB	C	O/	C	FSC	Q		OP-IS.KJ-0102(Q)	
DIESEL LUBE OIL MAKEUP ISOLATION VALVE													FSO	Q		OP-IS.KJ-0102(Q)	
													FSTC	Q		OP-IS.KJ-0102(Q)	
													STC	Q		OP-IS.KJ-0102(Q)	
													STO	Q		OP-IS.KJ-0102(Q)	
1KJSV-7534C	3	M30-1	3	F6	B	ACTIVE	0.5	SO	GB	C	O/	C	FSC	Q		OP-IS.KJ-0103(Q)	
DIESEL LUBE OIL MAKEUP ISOLATION VALVE													FSO	Q		OP-IS.KJ-0103(Q)	
													FSTC	Q		OP-IS.KJ-0103(Q)	
													STC	Q		OP-IS.KJ-0103(Q)	
													STO	Q		OP-IS.KJ-0103(Q)	
1KJSV-7534D	3	M30-1	3	F3	B	ACTIVE	0.5	SO	GB	C	O/	C	FSC	Q		OP-IS.KJ-0104(Q)	
DIESEL LUBE OIL MAKEUP ISOLATION VALVE													FSO	Q		OP-IS.KJ-0104(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		OP-IS.KJ-0104(Q)	
1KJSV-7535A	3	M30-1	3	D7	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0001(Q)	
EDG AG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0001(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7535B	3	M30-1	3	D4	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0002(Q)	
EDG BG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0002(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KJSV-7535C	3	M30-1	3	D6	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0003(Q)	
EDG CG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0003(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7535D	3	M30-1	3	D3	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0004(Q)	
EDG DG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0004(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7536A	3	M30-1	3	D7	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0001(Q)	
EDG AG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0001(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7536B	3	M30-1	3	D4	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0002(Q)	
EDG BG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0002(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7536C	3	M30-1	3	D6	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0003(Q)	
EDG CG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0003(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJSV-7536D	3	M30-1	3	D3	B	ACTIVE	0.37	SO	3WAY	C	O/	C	FSC	Q		OP-ST.KJ-0004(Q)	
EDG DG400 AIR START SOLENOID VALVE													FSO	Q		OP-ST.KJ-0004(Q)	
													FSTC	Q		OP-IS.KJ-0104(Q)	
													STC	Q		OP-IS.KJ-0104(Q)	
													STO	Q		N/A	
1KJTCV-6618A	3	M30-1	2	D7	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 INTERCOOLER HEAT EXCHANGER TEMP CONTROL VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJTCV-6618B	3	M30-1	2	D4	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 INTERCOOLER HEAT EXCHANGER TEMP CONTROL VALVE																	
1KJTCV-6618C	3	M30-1	2	D6	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 INTERCOOLER HEAT EXCHANGER TEMP CONTROL VALVE																	
1KJTCV-6618D	3	M30-1	2	D3	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 INTERCOOLER HEAT EXCHANGER TEMP CONTROL VALVE																	
1KJTCV-7722A	3	M30-1	3	D7	B	ACTIVE	4	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 LUBE OIL TEMP CONTROL VALVE																	
1KJTCV-7722B	3	M30-1	3	D4	B	ACTIVE	4	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 LUBE OIL TEMP CONTROL VALVE																	
1KJTCV-7722C	3	M30-1	3	D6	B	ACTIVE	4	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 LUBE OIL TEMP CONTROL VALVE																	
1KJTCV-7722D	3	M30-1	3	D3	B	ACTIVE	4	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 LUBE OIL TEMP CONTROL VALVE																	
1KJTV-6606A	3	M30-1	2	D7	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 JACKET WATER TEMP CONTROL VALVE																	
1KJTV-6606B	3	M30-1	2	D4	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 JACKET WATER TEMP CONTROL VALVE																	
1KJTV-6606C	3	M30-1	2	D6	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 JACKET WATER TEMP CONTROL VALVE																	
1KJTV-6606D	3	M30-1	2	D3	B	ACTIVE	5	AO	3WAY	A	O	O	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 JACKET WATER TEMP CONTROL VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KJV-189	3	M30-1	3	F8	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0001(Q)	
STARTING AIR RECIEVER AT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-192	3	M30-1	3	F8	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0001(Q)	
STARTING AIR RECIEVER BT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0001(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-194	3	M30-1	3	F4	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0002(Q)	
STARTING AIR RECIEVER CT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0002(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-197	3	M30-1	3	F4	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0002(Q)	
STARTING AIR RECIEVER DT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0002(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-199	3	M30-1	3	F6	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0003(Q)	
STARTING AIR RECIEVER ET408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0003(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-202	3	M30-1	3	F6	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0003(Q)	
STARTING AIR RECIEVER FT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0003(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-204	3	M30-1	3	F3	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0004(Q)	
STARTING AIR RECIEVER GT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0004(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-207	3	M30-1	3	F3	C	ACTIVE	0.75	SELF	CK	A	C	N/A	BDO	Q		OP-ST.KJ-0004(Q)	
STARTING AIR RECIEVER HT408 AIR SUPPLY CHECK VALVE													CTC	Q		OP-ST.KJ-0004(Q)	
CMP Active: NO CMP: Yes CMP Group 32 Diesel Starting Air																	
1KJV-336	3	M30-1	1	F8	C	ACTIVE	1.5	SELF	CK	A	O/	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
DIESEL MOTOR DRIVEN FUEL OIL PUMP DISCH CHECK VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJV-338	3	M30-1	1	F5	C	ACTIVE	1.5	SELF	CK	A	O/	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
DIESEL MOTOR DRIVEN FUEL OIL PUMP DISCH CHECK VALVE																	
1KJV-340	3	M30-1	1	F6	C	ACTIVE	1.5	SELF	CK	A	O/	N/A	SKID	Q		OP-ST.KJ-0003(Q)	
DIESEL MOTOR DRIVEN FUEL OIL PUMP DISCH CHECK VALVE																	
1KJV-342	3	M30-1	1	F3	C	ACTIVE	1.5	SELF	CK	A	O/	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
DIESEL MOTOR DRIVEN FUEL OIL PUMP DISCH CHECK VALVE																	
1KJV-364	3	M30-1	1	F8	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-365	3	M30-1	1	F8	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-366	3	M30-1	1	F4	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG BG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-367	3	M30-1	1	F4	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG BG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-368	3	M30-1	1	F6	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG CG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-369	3	M30-1	1	F6	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG CG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-370	3	M30-1	1	F3	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG DG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	
1KJV-371	3	M30-1	1	F3	C	ACTIVE	1	SELF	SELF	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG DG400 FUEL OIL PRESSURE RETURN CHECK VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJV-376	3	M30-1	2	B7	C	ACTIVE	6	SELF	DCK	C	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
A DIESEL JACKET WATER PUMP SUCTION CHECK VALVE																	
1KJV-377	3	M30-1	2	D4	C	ACTIVE	6	SELF	DCK	C	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
B DIESEL JACKET WATER PUMP SUCTION CHECK VALVE																	
1KJV-378	3	M30-1	2	D6	C	ACTIVE	6	SELF	DCK	C	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
C DIESEL JACKET WATER PUMP SUCTION CHECK VALVE																	
1KJV-379	3	M30-1	2	D3	C	ACTIVE	6	SELF	DCK	C	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
C DIESEL JACKET WATER PUMP SUCTION CHECK VALVE																	
1KJV-404	3	M30-1	2	D7	C	ACTIVE	1.5	SELF	CK	O	C	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
DIESEL JACKET WATER HEATER AE407 OUTLET CHECK VALVE																	
1KJV-405	3	M30-1	2	D4	C	ACTIVE	1.5	SELF	CK	O	C	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
DIESEL JACKET WATER HEATER BE407 OUTLET CHECK VALVE																	
1KJV-406	3	M30-1	2	D6	C	ACTIVE	1.5	SELF	CK	O	C	N/A	SKID	Q		OP-ST.KJ-0003(Q)	
DIESEL JACKET WATER HEATER CE 407 OUTLET CHECK VALVE																	
1KJV-407	3	M30-1	2	D3	C	ACTIVE	1.5	SELF	CK	O	C	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
DIESEL JACKET WATER HEATER DE407 OUTLET CHECK VALVE																	
1KJV-569	N	M30-1	3	D7	C	ACTIVE	0.5	SELF	CK	A	O	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 MOTOR DRIVEN ROCKER ARM LUBE OIL PMP DISCH CHECK VALVE																	
1KJV-570	N	M30-1	3	D4	C	ACTIVE	0.5	SELF	CK	A	O	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 MOTOR DRIVEN ROCKER ARM LUBE OIL PMP DISCH CHECK VALVE																	
1KJV-571	N	M30-1	3	D6	C	ACTIVE	0.5	SELF	CK	A	O	N/A	SKID	Q		OP-ST.KJ-	
EDG CG400 MOTOR DRIVEN ROCKER ARM LUBE OIL PMP DISCH CHECK VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KJV-572	N	M30-1	3	D3	C	ACTIVE	0.5	SELF	CK	A	O	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 MOTOR DRIVEN ROCKER ARM LUBE OIL PMP DISCH CHECK VALVE																	
1KJXV-7788A	3	M30-1	3	D7	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788B	3	M30-1	3	D7	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788C	3	M30-1	3	D4	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788D	3	M30-1	3	D4	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788E	3	M30-1	3	D6	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788F	3	M30-1	3	D6	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788G	3	M30-1	3	D3	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7788H	3	M30-1	3	D3	C	ACTIVE	0.37	SELF	XFV	O	O/	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 STARTING AIR PRESS INSTRUMENT LINE EXCESS FLOW CHECK VALVE																	
1KJXV-7789A	3	M30-1	3	D7	C	ACTIVE	0.37	SELF	XFV	O	C	N/A	SKID	Q		OP-ST.KJ-0001(Q)	
EDG AG400 CONTROL AIR EXCESS FLOW CHECK VALVE																	
1KJXV-7789B	3	M30-1	3	D4	C	ACTIVE	0.37	SELF	XFV	O	C	N/A	SKID	Q		OP-ST.KJ-0002(Q)	
EDG BG400 CONTROL AIR EXCESS FLOW CHECK VALVE																	

System: KJ
DIESEL GENERATOR

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KJXV-7789C	3	M30-1	3	D6	C	ACTIVE	0.37	SELF	XFV	O	C	N/A	SKID	Q		OP-ST.KJ-0003(Q)	
EDG CG400 CONTROL AIR EXCESS FLOW CHECK VALVE																	
1KJXV-7789D	3	M30-1	3	D3	C	ACTIVE	0.37	SELF	XFV	O	C	N/A	SKID	Q		OP-ST.KJ-0004(Q)	
EDG DG400 CONTROL AIR EXCESS FLOW CHECK VALVE																	

System: KL **Third 10-Year Interval**
CONTAINMENT INSTRUMENT
GAS

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KLHV-5124A	3	M59-1	2	C6	B	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.KL-0101(Q)	
PCIG SUPPLY HEADER A ISOLATION VALVE													PIT	2YR		OP-IS.KL-0103(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5124B	3	M59-1	2	C4	B	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.KL-0102(Q)	
PCIG SUPPLY HEADER B ISOLATION VALVE													PIT	2YR		OP-IS.KL-0103(Q)	
													STC	Q		OP-IS.KL-0102(Q)	
1KLHV-5126A	2	M59-1	1	F3	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0101(Q)	
PCIG HEADER A OTBD CONT ISO VALVE													FSO	Q		OP-IS.KL-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0101(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
													STO	Q		OP-IS.KL-0101(Q)	
1KLHV-5126B	2	M59-1	1	G3	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0102(Q)	
PCIG HEADER B OTBD CONT ISO VALVE													FSO	Q		OP-IS.KL-0102(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0102(Q)	
													STC	Q		OP-IS.KL-0102(Q)	
													STO	Q		OP-IS.KL-0102(Q)	
1KLHV-5147	2	M59-1	1	D3	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0101(Q)	
PCIG COMPRESSOR AK-202 OTBD DRYWELL SUCTION ISOLATION VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.KL-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5148	2	M59-1	1	D3	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	CS	CS-15	OP-IS.KL-0103(Q)	
PCIG COMPRESSOR INBD DRYWELL SUCTION ISOLATION VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.KL-0103(Q)	
										CIV: Yes			STC	CS	CS-15	OP-IS.KL-0103(Q)	
1KLHV-5152A	2	M59-1	1	F2	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0101(Q)	
PCIG HEADER A INBD CONT ISO VALVE													FSO	Q		OP-IS.KL-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0103(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
													STO	Q		OP-IS.KL-0101(Q)	

System: KL **Third 10-Year Interval**
CONTAINMENT INSTRUMENT
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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KLHV-5152B	2	M59-1	1	G2	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0102(Q)	
PCIG HEADER B INBD CONT ISO VALVE													FSO	Q		OP-IS.KL-0102(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0103(Q)	
													STC	Q		OP-IS.KL-0102(Q)	
													STO	Q		OP-IS.KL-0102(Q)	
1KLHV-5154	2	M59-1	1	B3	A	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.KL-0101(Q)	
INSTRUMENT GAS TEST TO TORUS VACUUM BREAKERS OTBD CONT ISO VALVE													FSTC	Q		OP-IS.KL-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0101(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5155	2	M59-1	1	B3	A	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.KL-0101(Q)	
INSTRUMENT GAS TEST SUP TO TORUS VACUUM BREAKERS INBD CONT ISO VALVE													FSTC	Q		OP-IS.KL-0101(Q)	
													LJ	2YR		RA-IS.ZZ-0010(Q)	
										CIV: Yes			PIT	2YR		OP-IS.KL-0101(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5156A	2	M59-1	1	F5	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.KL-0101(Q)	
PCIG SUPPLY HEADER A INTER CONNECTING ISOLATION VALVE													FSTC	Q		OP-IS.KL-0101(Q)	
													PIT	2YR		OP-IS.KL-0101(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5156B	2	M59-1	1	G5	B	ACTIVE	2	AO	GB	O	C	C	FSC	Q		OP-IS.KL-0102(Q)	
PCIG SUPPLY HEADER B INTERCONNECTING ISOLATION VALVE													FSTC	Q		OP-IS.KL-0102(Q)	
													PIT	2YR		OP-IS.KL-0102(Q)	
													STC	Q		OP-IS.KL-0102(Q)	
1KLHV-5160A	2	M59-1	1	D4	B	ACTIVE	2	MO	GB	C	O	N/A	FSO	Q		OP-IS.KL-0103(Q)	
PCIG COMPRESSOR REACTOR BLDG SUCTION ISO VALVE													PIT	2YR		OP-IS.KL-0103(Q)	
													STO	Q		OP-IS.KL-0103(Q)	
1KLHV-5160B	2	M59-1	1	C4	B	ACTIVE	2	MO	GB	C	O	N/A	FSO	Q		OP-IS.KL-0103(Q)	
PCIG COMPRESSOR REACTOR BLDG SUCTION ISO VALVE													PIT	2YR		OP-IS.KL-0103(Q)	
													STO	Q		OP-IS.KL-0103(Q)	

System: KL **Third 10-Year Interval**
CONTAINMENT INSTRUMENT
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TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1KLHV-5162	2	M59-1	1	C3	A	ACTIVE	2	MO	GB	O	O/	N/A	FSC	Q		OP-IS.KL-0102(Q)	
PCIG COMPRESSOR BK-202 OTBD DRYWELL SUCTION ISOLATION VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.KL-0102(Q)	
										CIV: Yes			STC	Q		OP-IS.KL-0102(Q)	
1KLHV-5172A	2	M59-1	1	F4	B	ACTIVE	2	MO	GB	C	C	N/A	FSC	Q		OP-IS.KL-0101(Q)	
PCIG REACTIOR BLDG TO SUP CHAMBER RELIEF VALVE ACCUM SUPPLY VALVE													PIT	2YR		OP-IS.KL-0101(Q)	
													STC	Q		OP-IS.KL-0101(Q)	
1KLHV-5172B	2	M59-1	1	H3	B	ACTIVE	2	MO	GB	C	C	N/A	FSC	Q		OP-IS.KL-0102(Q)	
PCIG REACTOR BLDG TO SUP CHAMBER RELIEF VALVE ACCUM SUPPLY VALVE													PIT	2YR		OP-IS.KL-0102(Q)	
													STC	Q		OP-IS.KL-0102(Q)	
1KLPSV-5032A	2	M59-1	1	D6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG COMPRESSOR AK-202 INTERCOOLER RELIEF VALVE																	
1KLPSV-5032B	2	M59-1	1	B6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG COMPRESSOR BK-202 INTERCOOLER RELIEF VALVE																	
1KLPSV-5127A	2	M59-1	1	F7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG RECIEVER AT-201 RELIEF VALVE																	
1KLPSV-5127B	2	M59-1	1	G7	C	ACTIVE	0.75	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG RECEIVER BT-201 RELIEF VALVE																	
1KLPSV-5135A	3	M59-1	1	C5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS CLG WTR SUP TO AK-202 RELIEF VALVE																	
1KLPSV-5135B	3	M59-1	1	A5	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
SACS CLG WTR SUP TO BK-202 RELIEF VALVE																	
1KLPSV-5136A	2	M59-1	1	D6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG COMPRESSOR AK-202 DISCH RELIEF VALVE																	
1KLPSV-5136B	2	M59-1	1	B6	C	ACTIVE	1	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
PCIG COMPRESSOR BK-202 DISCH RELIEF VALVE																	

System: KL
CONTAINMENT INSTRUMENT GAS

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1KLPSV-5228A	2	M59-1	1	D7	C	ACTIVE	0.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
INSTRUMENT GAS COMPRESSOR DRYER AS-208 RELIEF VALVE																	
1KLPSV-5228B	2	M59-1	1	B7	C	ACTIVE	0.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
INSTRUMENT GAS COMPRESSOR DRYER BS-208 RELIEF VALVE																	
1KLPSV-5230A	2	M59-1	1	D7	C	ACTIVE	0.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
INSTRUMENT GAS COMPRESSOR DRYER AS-208 RELIEF VALVE																	
1KLPSV-5230B	2	M59-1	1	B7	C	ACTIVE	0.5	SELF	RV	C	O/	N/A	RV	10YR		MD-GP.ZZ-0085(Q)	
INSTRUMENT GAS COMPRESSOR DRYER BS-208 RELIEF VALVE																	
1KLSV-5164A	2	M59-1	1	D6	B	ACTIVE	1	SO	GT	A	C	C	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG COMPRESSOR A UNLOADER SOLENOID VALVE																	
1KLSV-5164B	2	M59-1	1	B5	N/A	ACTIVE	1	SO	GT	A	C	C	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG COMPRESSOR B UNLOADER SOLENOID VALVE																	
1KLV-005	2	M59-1	1	D7	C	ACTIVE	1	SELF	CK	O/C	O/	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG COMPRESSOR DISCHARGE CHECK VALVE																	
1KLV-006	2	M59-1	1	B7	C	ACTIVE	1	SELF	CK	O/C	O/	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG COMPRESSOR DISCHARGE CHECK VALVE																	
1KLV-023	2	M59-1	1	F4	C	ACTIVE	2	SELF	CK	O/C	O	N/A	BDC	CS	CS-16	OP-IS.KL-0103(Q)	
PCIG HEADER A SUPPLY CHECK VALVE													CTO	CS	CS-16	OP-IS.KL-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 33 PCIG Header Supply																	
1KLV-024	2	M59-1	1	G3	C	ACTIVE	2	SELF	CK	O/C	O	N/A	BDC	CS	CS-16	OP-IS.KL-0103(Q)	
PCIG HEADER B SUPPLY CHECK VALVE													CTO	CS	CS-16	OP-IS.KL-0103(Q)	
CMP Active: NO CMP: Yes CMP Group 33 PCIG Header Supply																	
1KLV-217	2	M59-1	1	D7	C	ACTIVE	1	SELF	CK	O/C	O	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG PREFILTER AF-217 DISCH CHECK VALVE																	

System: KL **Third 10-Year Interval**
CONTAINMENT INSTRUMENT
GAS

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION…	PROCEDURE	RECUR TASK
1KLV-219	2	M59-1	1	B7	C	ACTIVE	1	SELF	CK	O/C	O	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG PREFILTER BF217 DISCH CHECK VALVE																	
1KLV-223	2	M59-1	1	D7	C	ACTIVE	1	SELF	CK	O/C	O	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG DRYER AS-200 DISH CHECK VALVE																	
1KLV-224	2	M59-1	1	B7	C	ACTIVE	1	SELF	CK	O/C	O	N/A	SKID	Q		OP-DL.ZZ-0004(Q)	
PCIG DRYER BS-200 DISCH CHECK VALVE																	

System: RC **Third 10-Year Interval**
POST ACCIDENT SAMPLING

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1RCSV-0643A	2	M38-0	1	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS RETURN TO SUPP POOL CONT ISOLATION VALVE													PIT	2YR		OP-IS.RC-0101(Q)	
										CIV: Yes							
1RCSV-0643B	2	M38-0	1	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS RETURN TO SUPP POOL CONT ISOLATION VALVE													PIT	2YR		OP-IS.RC-0101(Q)	
										CIV: Yes							
1RCSV-0646A	2	M38-0	1	E7	B	PASSIVE	1	SO	GB	C	C	C					
RHR SAMPLE ISOLATION VALVE																	
1RCSV-0707A	2	M38-0	2	F7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS RETURN TO SUPP POOL CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0707B	2	M38-0	2	F7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS RETURN TO SUPP POOL CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0728A	2	M38-0	2	F7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS SUPP POOL ATM SAMPLE SUPPLY CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0728B	2	M38-0	2	F7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS SUP POOL ATM SAMPLE SUPPLY CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0729A	2	M38-0	2	E7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS SUP POOL ATM SAMPLE SUPPLY CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0729B	2	M38-0	2	E7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS SUP POOL ATM SAMPLE SUPPLY CONT ISO VALVE																	
										CIV: Yes							

System: RC
POST ACCIDENT SAMPLING

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1RCSV-0730A	2	M38-0	2	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS DRYWELL SAMPLE CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0730B	2	M38-0	2	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS DRYWELL SAMPLE CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0731A	2	M38-0	2	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS DRYWELL SAMPLE CONT ISO VALVE																	
										CIV: Yes							
1RCSV-0731B	2	M38-0	2	C7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS DRYWELL SAMPLE CONT ISO VALVE																	
										CIV: Yes							
1RCSV-8903A	1	M38-0	1	G7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS REACTOR BLDG ATM SAMPLE RTN ISO VALVE													PIT	2YR		OP-IS.RC-0102(Q)	
										CIV: Yes							
1RCSV-8903B	2	M38-0	1	G7	A	PASSIVE	1	SO	GB	C	C	C	LJ	2YR		RA-IS.ZZ-0010(Q)	
PASS JET PUMP SAMPLE CONT ISOLATION VALVE													PIT	2YR		OP-IS.RC-0102(Q)	
										CIV: Yes							

System: SE
NEUTRON MONITORING (TIPS)

Third 10-Year Interval

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1SEHV-5161 *TIP PURGE TUBE ISOLATION VALVE*	2	M59-1	3	D3	A	ACTIVE	2	AO	GB	O CIV: Yes	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q) OP-IS.SE-0101(Q)	
1SESV-J004A1 *TIP A PROBE GUIDE TUBE ISOLATION VALVE*	2	M59-1	3	E4	A	ACTIVE	O.37	SO	BALL	C CIV: Yes	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q)	
1SESV-J004A2 *TIP B PROBE GUIDE TUBE ISOLATION VALVE*	2	M59-1	3	E4	A	ACTIVE	O.37	SO	BALL	C	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q)	
1SESV-J004A3 *TIP C PROBE GUIDE TUBE ISOLATION VALVE*	2	M59-1	3	E4	A	ACTIVE	O.37	SO	BALL	C CIV: Yes	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q)	
1SESV-J004A4 *TIP D PROBE GUIDE TUBE ISOLATION VALVE*	2	M59-1	3	E4	A	ACTIVE	O.37	SO	BALL	C CIV: Yes	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q)	
1SESV-J004A5 *TIP E PROBE GUIDE TUBE ISOLATION VALVE*	2	M59-1	3	E4	A	ACTIVE	O.37	SO	BALL	C CIV: Yes	C	C	FSC FSTC LJ PIT STC	Q Q 2YR 2YR Q		OP-IS.SE-0101(Q) OP-IS.SE-0101(Q) RA-IS.ZZ-0010(Q) RA-IS.ZZ-0010(Q) OP-IS.SE-0101(Q)	
1SEV-006 *TIP PURGE TUBE INBD CONT ISO CHECK VALVE* **CMP Active: NO** CMP: Yes CMP Group 34 TIP Purge Supply	2	M59-1	3	D3	AC	ACTIVE	O.37	SELF	CK	O CIV: Yes	C	N/A	BDO CTC LJ	Q RF RJ-12 2YR		OP-DL.ZZ-0004(Q) OP-IS.SE-0102(Q) RA-IS.ZZ-0010(Q)	

System: SE
NEUTRON MONITORING (TIPS)

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1SEXV-J004B1	2	M59-1	3	E4	D	ACTIVE	O.37	EXPL	GT	O	C	N/A	EX	10YR		MD-ST.SE-0002(Q)	
TIP A SHEAR VALVE										CIV: Yes							
1SEXV-J004B2	2	M59-1	3	E4	D	ACTIVE	O.37	EXPL	GT	O	C	N/A	EX	10YR		MD-ST.SE-0002(Q)	
TIP B SHEAR VALVE										CIV: Yes							
1SEXV-J004B3	2	M59-1	3	E4	D	ACTIVE	O.37	EXPL	GT	O	C	N/A	EX	10YR		MD-ST.SE-0002(Q)	
TIP C SHEAR VALVE										CIV: Yes							
1SEXV-J004B4	2	M59-1	3	E4	D	ACTIVE	O.37	EXPL	GT	O	C	N/A	EX	10YR		MD-ST.SE-0002(Q)	
TIP D SHEAR VALVE										CIV: Yes							
1SEXV-J004B5	2	M59-1	3	E4	D	ACTIVE	O.37	EXPL	GT	O	C	N/A	EX	10YR		MD-ST.SE-0002(Q)	
TIP E SHEAR VALVE										CIV: Yes							

System: SK
PLANT LEAK DETECTION

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION...	PROCEDURE	RECUR TASK
1SKHV-4953	2	M25-1	1	F3	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.SK-0101(Q)	
DRYWELL LEAK DETECTION RMS INLET CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.SK-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.SK-0101(Q)	
1SKHV-4957	2	M25-1	1	F3	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.SK-0101(Q)	
DRYWELL LEAK DETECTION RMS OUTLET CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.SK-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.SK-0101(Q)	
1SKHV-4981	2	M25-1	1	F3	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.SK-0101(Q)	
DRYWELL LEAK DETECTION RMS OUTLET CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.SK-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.SK-0101(Q)	
1SKHV-5018	2	M25-1	1	G4	A	ACTIVE	2	MO	GB	O	C	N/A	FSC	Q		OP-IS.SK-0101(Q)	
DRYWELL LEAK DETECTION RMS INLET CONT ISO VALVE													LJ	2YR		RA-IS.ZZ-0010(Q)	
													PIT	2YR		OP-IS.SK-0101(Q)	
										CIV: Yes			STC	Q		OP-IS.SK-0101(Q)	

System: SN **Third 10-Year Interval**
AUTOMATIC
DEPRESSURIZATION

TABLE 3: VALVES

COMPONENT ID	ASME	P&ID	SH	LOC	CAT	A/P CAT	SIZE	ACT TYPE	VLV	NORM	SAFE	FAIL	TEST	FREQ	EXCEPTION	PROCEDURE	RECUR TASK
1SNPSV-F013A	1	M41-1	2	C8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF/ADS VALVE																	
1SNPSV-F013B	1	M41-1	2	C8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF/ADS VALVE																	
1SNPSV-F013C	1	M41-1	2	C8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF/ADS VALVE																	
1SNPSV-F013D	1	M41-1	2	C8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF/ADS VALVE																	
1SNPSV-F013E	1	M41-1	2	B8	C	ACTIVE	8	SELF	SRV	C	O/	N/A	RV	5YR	V-02 / 04	MD-AP.ZZ-0152(Q)	
MAIN STEAM SAFETY RELIEF/ADS VALVE																	

ATTACHMENT 1

TECHNICAL POSITIONS

Hope Creek Inservice Testing Plan

TECHNICAL POSITION INDEX

NUMBER	APPLICABLE COMPONENTS	REVISION
TP-1	Reference Values and Limiting Values of Full Stroke Times	0
TP-2	Pump Fixed Reference Value Variance	0
TP-3	Reserved	n/a
TP-4	Reserved	n/a
TP-5	ECCS Keep-Fill System Series Check Valves	0
TP-6	ADS/PRV Classification	0

Hope Creek Inservice Testing Plan

Technical Position - TP-1

I. Title

Power-Operated Valve Stroke Testing
Reference Values and Limiting Values of Full-Stroke Time

II. Issue Discussion

a) ISTC requires that an initial reference value be established for each valve or group of valves. The acceptance criteria is an allowable percentage above or below (±) the reference value. Per ISTC , Subarticle ISTC-3300, reference values will be determined from the results of past inservice tests. These tests are performed under conditions as near as practicable to those expected during subsequent inservice testing.

b) ISTC specifies stroke time acceptance criteria in Paragraphs ISTC-5114, 5122, 5132, 5142, and 5152. The limiting values of stroke time testing are to be established by the owner according to Subparagraphs ISTC-5113(b), 5120(b), 5131(b), 5141(b), and 5151(b).

III. Reference Values (ISTC , Subarticle ISTC-3300 and Paragraph ISTC-3310)

a) According to ISTC, Paragraph ISTC-3310, when a valve or its control system has been replaced, repaired or has undergone maintenance* that could affect the valve's performance, a new reference value will be determined or the previous value reconfirmed by an inservice test run prior to the time the valve is returned to service or immediately if not removed from service, to demonstrate that performance parameters which could be affected by replacement, repair, or maintenance are within acceptable limits. Verification that the new values represent acceptable operation will be documented in the record of tests.

* Adjustment of stem packing, limit switches, or control system valves, and removal of the bonnet, stem assembly, actuator, obturator, or control system components are examples of maintenance that could affect valve performance parameters.

b) Deviations between the previous and new reference values will be identified and analyzed. This analysis will review the Δt (previous minus new) between the reference values and determine whether this change is consistent with any changes that the valve or its control system has undergone. If the changes in stroke times are consistent with the changes that the valve or its control system has undergone, the new reference value will be applied to the valve. If the changes in stroke times are inconsistent with the changes that the valve or its control system has undergone, the IST Program Manager may elect to perform

TP-1 (Con't)

further evaluations and determine if the previous value should remain as the reference value.

c) Safety and relief valves and nonreclosing pressure relief devices shall be tested as required by the replacement, repair, and maintenance requirements of Mandatory Appendix I.

d) If it is desired to establish an additional set of reference values, the requirements of ISTC, Paragraph ISTC-3320 must be met.

IV. Stroke Time Acceptance Criteria (ISTC, Paragraphs ISTC-5114, 5122, 5132, 5142, 5152, Subparagraphs ISTC-5113(b), 5120(b), 5131(b), 5141(b), 5151(b) and Paragraphs ISTC-5115, 5123, 5133, 5143, 5153)

a) The ISTC standard recognizes that operating characteristics of electric motor operated valves are more consistent than those of other power-operated valves. The acceptance criteria for electric motor operated valves and other power-operated valves are different to reflect the operating characteristics.

b) Per ISTC, Paragraphs ISTC-5114, 5122, 5132, 5142, 5152, stroke time acceptance criteria are calculated based on the reference values established above. The stroke time acceptance criteria calculations are shown below:

Operator Type	Reference Value (RV) (Notes 1,2,3)	Acceptance Criteria (Note 4)	Limiting Stroke Time (LST) (Notes 4,5)
Motor	RV>10.0	0.85RV - 1.15RV	≤1.30RV
	4.0≤RV≤10.0	0.75RV - 1.25RV	≤1.50RV
	RV<4.0**	RV±1.0 sec.	RV+2.0 sec.
Other (AOV, HOV, SOV, PORV)	RV>10.0	0.75RV - 1.25RV	≤1.5RV
	RV≤10.0**	0.50RV - 1.50RV	≤2.0RV
All	RV≤2.0**	N/A	≤2.0 sec.

** Valves that stroke in less than 2 seconds may be exempted from use of the Acceptance Criteria ranges shown for "Motor" and "Other" Operator types. In such cases, the maximum limiting stroke time shall be 2 seconds (Ref. ISTC-5114(c), 5122(c), 5132(c), 5142(c), 5152(c)).

Notes: _____

TP-1 (Con't)

1) RV is the reference value in seconds for an individual valve or valve groupings.

2) Standard rounding techniques are used when rounding off stopwatch readings during valve stroke timing (e.g. 10.45 rounds to 10.5 and 10.44 rounds to 10.4 seconds). All measured stroke times are rounded to the nearest tenth of a second.

3) When reference stroke time values are affected by other parameters or conditions, then these parameters or conditions must be analyzed and the above factors adjusted.

4) If the above calculated acceptance values exceed a Technical Specification (TS) or Final Safety Analysis Report (FSAR) value, then the TS or FSAR (or UFSAR) value must be used for the Limiting Value of Full-Stroke Time.

5) If a minimum limiting stroke time exists for a given valve, the minimum value shall be used as the Lower Limiting Stroke Time. For valves with no lower limiting number, the Lower Limiting Stroke Time shall be N/A.

c) According to ISTC , Paragraph ISTC-5115, 5123, 5133, 5143, and 5153, if a valve does not meet its acceptance criteria, it will be immediately retested or declared inoperable. If the valve is retested and the second set of data also does not meet the acceptance criteria, either the data shall be analyzed within 96 hours to verify that the new stroke time represents acceptable valve operations, or the valve will be declared inoperable. If the second set of data meets the acceptance criteria, the cause of the initial deviation will be analyzed and the results documented in the record of tests.

V. Limiting Stroke Time

The Limiting Stroke Time (LST) is bounded by the system requirements or values specified in the safety analyses for system performance (FSAR, UFSAR or Technical Specifications). When the identified limiting value is exceeded, the valve shall be declared inoperable and the applicable Technical Specification Limiting Condition for Operation (LCO) shall be entered. Following the declaration that the valve is inoperable, the valve may be repaired, replaced or the data may be analyzed to determine the cause of the deviation and the valve shown to be operating acceptably. Valve operability based upon analysis shall have the results of the analysis recorded in the record of tests. Prior to returning a repaired or replacement valve to service, a test demonstrating satisfactory operation shall be performed.

VI. References

a) Code of Federal Regulations, Title 10, Part 50.55a
b) ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTC
c) NRC NUREG-1482 – Rev 1, Guidelines for Inservice Testing at Nuclear Power Plants
d) Hope Creek Technical Specification, Section 4.0.5, Surveillance Requirements
e) NC.NA-AP.ZZ-0012(Q), Technical Specification Surveillance Program
f) ER-AA-321, Administrative Requirements for Inservice Testing

Technical Position - TP-2

I. Title

Pump Testing
Pump Fixed Reference Value Variance

II. Issue Discussion

a) NUREG-1482, Section 5.3 recognizes that certain plant designs are not conducive to adjusting system resistance to obtain an exact fixed reference value. The staff has determined that, if the design does not allow for establishing and maintaining flow at an exact value, achieving a steady flow rate or differential pressure at approximately the set value does not require relief for establishing pump curves. The allowed tolerance for setting the fixed parameter must be established for each case individually including the accuracy of the instrument and the precision of its display. This will necessitate verification of the effect of precision on accuracy as considered in the design of the instrument gauge. A total tolerance of ±2 percent of the reference value is allowed without approval from the NRC. For tolerance greater than ±2 percent (may be necessary depending on the precision of the instrument), a corresponding adjustment to the acceptance criteria may be made to compensate for the uncertainty, or an evaluation be performed and documented justifying a greater tolerance. In using this guidance, the variance must be documented in the IST Program documents or implementing procedures.

b) NUREG-1482, Section 5.5 provides guidance for range and accuracy of analog and digital instruments used to measure pump flow rate and differential pressure.

c) ISTB requires digital instruments: 1) be selected such that the pump reference value shall not exceed 70 percent of the calibrated range and 2) be accurate to 2 percent over the calibrated range.

III. Implementation

a) When system design prohibits setting flow rate at a specific reference value, an allowable tolerance shall be determined to aid performance of the inservice test. The tolerance shall be determined based on the applicable instrument accuracy and precision of display. In no case will the total tolerance exceed ±2 percent of the reference value without a corresponding adjustment to the associated acceptance criteria or an evaluation being performed to justify the greater tolerance.

TP-2 (Con't)

b) The total tolerance shall be determined in a manner similar to the following example:

For an analog instrument with a full range of 0-10,000 gpm, accuracy of 1 percent full scale, and precision (increments) of 200 gpm used in a pump test with a reference flow rate of 6,000 gpm. Readings on the gauge would be acceptable to a degree of precision no greater than one-half the smallest increment. For this example, standard gauge reading between increments is 100 gpm (200 gpm /2). This is the smallest flow rate that can be read on this gauge. To meet the requirements of NUREG-1482, the sum of the specified tolerance (rounded to the nearest readable increment) and the indicated accuracy must be less than or equal to 2 percent of full scale. Therefore, for the specified information:

Gauge (indicated) Accuracy (GA) = ±(10,000 gpm x .01) = ±100 gpm

Specified Tolerance (ST) = ±(6,000 gpm x .02) = ±120 gpm

Code Allowable (CA) = ±(10,000 gpm x .02) = ±200 gpm

Note: since the minimum readable increment is 100 gpm, the Actual Specified Tolerance (AST) can be either ±100 gpm or ±200 gpm.

If AST = ±100 gpm:

GA + AST ≤ 200 gpm

100 gpm + 100 gpm ≤ 200 gpm

200 gpm = 200 Acceptable

If AST ±200 gpm:

GA + AST ≤ 200 gpm

100 gpm + 200 gpm ≤ 200 gpm

300 gpm > 200 gpm Unacceptable

Therefore, the pump test procedure would specify the system resistance be adjusted to set the observed flow rate to 6,000 ±100 gpm. No 10CFR50.55a request, NRC approval or further evaluation is required.

TP-2 (Con't)

c) If required to use averaging techniques to reduce instrument fluctuations as allowed in Subparagraph ISTB-3510(d), the average gauge reading shall be set within the allowable tolerance. For example, if the specified test flow rate is 1,000 ±100 gpm and the observed reading is fluctuating, the average gauge reading shall be less than 1100 gpm but greater than 900 gpm, or the system resistance shall be varied until this condition is met.

IV. References

a) Code of Federal Regulations, Title 10, Part 50.55a
b) ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTB
c) NRC NUREG-1482 - Rev 1, Guidelines for Inservice Testing at Nuclear Power Plants
d) NRC Generic Letter 89-04, Guidance on Developing Acceptable Inservice Testing Programs
e) Hope Creek Technical Specification, Section 4.0.5, Surveillance Requirements
f) NC.NA-AP.ZZ-0012(Q), Technical Specification Surveillance Program
g) ER-AA-321, Administrative Requirements for Inservice Testing

Hope Creek Inservice Testing Plan

Technical Position - TP-5

I. Title

Check Valve Testing
ECCS Keep-Fill System Series Check Valve

II. Issue Discussion

a) The function of each Emergency Core Cooling System (ECCS) keep-fill pump is to maintain the associated ECCS pump discharge lines filled and pressurized when ECCS is in standby. Without the keep-fill system, the ECCS pump discharge lines could depressurize and drain. This condition could lead to severe water hammer of the discharge piping in the event the ECCS pump is required to operate. Additionally, maintaining the discharge lines full and pressurized reduces the response time of the ECCS, since the time required for the ECCS pump to fill and pressurize the lines to the reactor vessel/containment is reduced.

b) The ECCS discharge lines are provided with instrumentation to provide continuous pressure monitoring to ensure that the discharge lines are filled and pressurized within allowable pressure limits as delineated in plant Technical Specifications.

c) There are no specific flow requirements associated with the ECCS keep-fill pump discharge check valves. The basis of the keep-fill pumps is to maintain the associated ECCS system pressurized within allowable limits. Pressure maintenance is considered adequate to monitor the opening capability of these valves.

d) UFSAR 1.12.3.1 identifies that the keep-fill network is installed in the ECCS systems to ensure that the ECCS lines remain full of water, that the ECCS pumps will not start pumping into voided lines and that steam will not collect in the ECCS piping. This feature minimizes the possibility of water hammer in the ECCS lines upon ECCS initiation. However, UFSAR 6.3.2.2.6 states that the ECCS discharge line fill network is designed to maintain the ECCS pump discharge lines in a filled condition. It further states that the fill network is safety-related and designed to seismic Category I criteria, but is not considered an integral part of the ECCS and that a single failure of an active component in the fill network will not prevent the ECCS from performing its intended function. Instrumentation is provided in the main control room to assist the operator in ascertaining the proper operation of the fill network. Failure of the fill network will not prevent the ECCS from performing its safety function.

TP-5 (Con't)

e) Paragraph 4.1.1 of NUREG-1482, Basis for Recommendation, states, in part, that "Keep-fill valves are a special case in that they are in redundant systems in which only one valve of a series is actually necessary to perform a system's intended function. Licensees have proposed to exclude the upstream valve from the IST Program. However, recognizing that neither valve can be individually demonstrated to shut, the NRC previously determined for the alternative test method discussed that both valves be included in the IST Program and tested as a pair to prevent reverse flow."

III. Implementation

a) Since series ECCS keep-fill pump discharge check valves can be individually tested, only the valve closest to the ECCS process piping has a safety function in the closed position and will be tested in the closed direction. The upstream check valve is installed for redundancy.

V. References

a) Code of Federal Regulations, Title 10, Part 50.55a
b) ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTC
c) NRC NUREG-1482 – Rev 1, Guidelines for Inservice Testing at Nuclear Power Plants
d) NRC Generic Letter 89-04, Guidance on Developing Acceptable Inservice Testing Programs
e) Hope Creek Technical Specification, Section 4.0.5, Surveillance Requirements
f) NC.NA-AP.ZZ-0012(Q), Technical Specification Surveillance Program
g) ER-AA-321, Administrative Requirements for Inservice Testing

Hope Creek Inservice Testing Plan

Technical Position - TP-6

I. Title

Relief Valve Testing
ADS/PRV Classification

II. Issue Discussion

a) The automatic depressurization system (ADS) valves (1SNPSV-F013A-E) are dual action main steam safety valves installed on the main steam headers to provide overpressure protection and to allow the operator to quickly depressurize the reactor vessel in the event of a small break loss of coolant accident (LOCA) coincident with a failure of the high pressure coolant injection system. The valve is capable of action as a simple mechanical relief valve, being remote manually operated from the main control room, or responding to an automatic safety system signal independent of reactor vessel pressure.

b) When tested in previous Intervals per IWV of ASME Section XI, 1983 Edition, the valve was categorized as B/C to ensure proper testing of all capabilities associated with the valve's safety function.

c) Paragraph 4.3.2.1 of NUREG-1482 – Rev 1, discusses BWR Safety/Relief Valve Stroke Testing and the fact that several utilities have requested relief from the OM Code and TSs pertaining to insitu stroke tests in the plant.

d) Paragraph I-3410 of Mandatory Appendix I specifies the inservice testing requirements for BWR main steam pressure relief valves with auxiliary actuating devices. Included in the required testing is the determination of stroke capability of the air actuator and the determination of operation of position indicators.

e) Hope Creek Technical Specifications 4.4.2.2, 4.4.2.3 and 4.5.1.d specify the required testing of the ADS valves. Testing per these sections include:

4.4.2.2 At least 1/3 of the safety relief pilot stage assemblies shall be removed, set pressure tested and reinstalled or replaced with spares that have been previously tested at least once per 18 months. They shall be rotated such that all 14 safety relief valve pilot stage assemblies are tested or replaced at least once per 40 months.

TP-6 (Con't)

4.4.2.3 The safety relief valve main (mechanical) stage assemblies shall be set pressure tested or replaced with spares at least once every 5 years.

4.5.1.d Manually open each ADS valve when the reactor steam dome pressure is greater than or equal to 100 psig and observe that either the control valve or the bypass valve position responds accordingly, or there is a corresponding change in measured steam flow.

III. Implementation

a) The ADS valves will be classified as Category C valves and tested in accordance with Mandatory Appendix I and the applicable Technical Specifications. Stroke time measurements and trending will not be performed.

V. References

a) Code of Federal Regulations, Title 10, Part 50.55a
b) ASME OM Code-2001 Edition through the 2003 Addenda, Subsection ISTC & Mandatory Appendix I
c) NRC NUREG-1482 – Rev 1, Guidelines for Inservice Testing at Nuclear Power Plants
d) NRC Generic Letter 89-04, Guidance on Developing Acceptable Inservice Testing Programs
e) Hope Creek Technical Specification, Section 4.0.5, Surveillance Requirements
f) NC.NA-AP.ZZ-0012(Q), Technical Specification Surveillance Program
g) ER-AA-321, Administrative Requirements for Inservice Testing

ATTACHMENT 2

COLD SHUTDOWN JUSTIFICATIONS

COLD SHUTDOWN JUSTIFICATION INDEX

NUMBER	APPLICABLE COMPONENTS	REVISION
CS-01	1ABHV-F022A/B/C/D , 1ABHV-F028A/B/C/D	0
CS-02	1ABHV-055/056/057/058	0
CS-03	PLACE HOLDER – Not used for Interval 3	n/a
CS-04	1AEV-127/128	0
CS-05	1AEHV-F032A/F032B	0
CS-06	1AEHV-F074A/F074B	0
CS-07	1BCHV-F008, F009, F015A/B, F017A/B/C/D	0
CS-08	1BCHV-F041A/B/C/D,-F050A/B, 1BEHV-F006A/B	0
CS-09	1BFHV-3800A/B	0
CS-10	1EAHV-2207, 1EAHV-2346	0
CS-11	1EAHV-2357A/B	0
CS-12	1EDHV-2553/2554/2555/2556	0
CS-13	1EDHV-2598/2599	0
CS-14	1EGHV-2522E/F	0
CS-15	1KLHV-5148	1
CS-16	1KLV-023/024	0
CS-17	PLACE HOLDER – Not used for Interval 3	n/a
CS-18	PLACE HOLDER – Not used for Interval 3	n/a
CS-19	PLACE HOLDER – Not used for Interval 3	n/a
CS-20	PLACE HOLDER – Not used for Interval 3	n/a
CS-21	1AEHV-F039	0
CS-22	1BGHV-F001, F004	0
CS-23	1FDHV-F002, F100	0
CS-24	1FCHV-F007, F076	0

Hope Creek Inservice Testing Plan

Cold Shutdown CS-01

System:

Main Steam and Drains

ASME Code Components Affected:

1ABHV-F022A
1ABHV-F022B
1ABHV-F022C
1ABHV-F022D
1ABHV-F028A
1ABHV-F028B
1ABHV-F028C
1ABHV-F028D

Component/System Function:

These valves are the inboard and outboard main steam isolation valves. The valves have a safety function in the closed position to provide containment isolation for the main steam headers. Additionally, they form the pressure boundary for the main steam isolation valve sealing system, which is operated post-LOCA as required to seal the main steam headers and prevent primary and secondary containment bypass leakage.

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, Paragraph ISTC- 3510.

Reason for Request:

Exercising and stroke timing these valves during power operation provides the potential for a reactor scram based on high steam flow in other main steam lines. A high steam flow will generate a main steam isolation valve (MSIV) isolation, followed by a not-full-open reactor protection system logic scram; or at a minimum, force a significant load reduction to permit testing.

The fail-safe testing of the outboard MSIVs (1ABHV-F028A-D) requires entry into the steam tunnel, which is a locked high radiation area during power operation. Due to the design of the MSIV controls, fail-safe testing is an involved process, which would require significant man-rem to perform. Additionally, entry into the steam tunnel during power operation poses a significant personnel hazard due to the high ambient temperature.

The fail-safe testing of the inboard MSIVs (1ABHV-F022A-D) requires entry into the drywell, which is nitrogen inerted during power operation and most cold shutdowns. See refueling outage justifications for test deferral justification.

Proposed Alternative Testing:

Full stroke exercising and stroke-timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520.

Fail-safe testing of the outboard MSIVs (1ABHV-F028A-D) shall be performed on a cold shutdown frequency per paragraph ISTC-3520.

Reference RJ-01 for inboard MSIV fail-safe testing frequency.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-02

System:

Main Steam and Drains

ASME Code Components Affected:

1ABV-055
1ABV-056
1ABV-057
1ABV-058

Component/System Function:

These check valves supply instrument air to the outboard main steam isolation valve accumulators. The valves have a safety function to close to prevent the accumulator from depressurizing in the event of a loss of the non-safety-related instrument air system.

OM Code Category:

C

ASME Code Class:

3

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC-3510.

Reason for Request:

Testing these check valves to the closed position during power operation requires entry into the steam tunnel, which is a locked high radiation area during power operation. Due to the design of the MSIV controls, testing is an involved process, which would require significant man-rem to perform. Additionally, entry into the steam tunnel during power operation poses a significant personnel hazard due to the high ambient temperature.

Proposed Alternative Testing:

Full stroke exercising to the open and closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-04

System:

Feedwater

ASME Code Components Affected:

1AEV-127
1AEV-128

Component/System Function:

These check valves are the reactor water cleanup return to feedwater isolation valves. The valves must close to prevent HPCI/RCIC diversion from the reactor vessel when these systems are required to
operate.

OM Code Category:

C

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

Testing these check valves to the closed position during power operation requires entry into the steam tunnel, which is a locked high radiation area during power operation. Testing is an involved process, which would require significant man-rem to perform. Additionally, entry into the steam tunnel during power operation poses a significant personnel hazard due to the high ambient temperature.

Proposed Alternative Testing:

Full stroke exercising to the open and closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-05

System:

Feedwater

ASME Code Components Affected:

1AEHV-F032A
1AEHV-F032B

Component/System Function:

These check valves are the main feedwater header stop check valves. The valves must close to prevent HPCI/RCIC flow diversion from the reactor vessel when these systems are required to operate. Additionally, the valves form a portion of the long-term feedwater sealing system pressure boundary. This system uses the HPCI and RCIC keep-fill pumps to maintain a positive pressure/water seal of the feedwater lines to prevent primary and secondary containment bypass leakage.

OM Code Category:

AC

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

These valves are located in the flow path for the main feedwater supply to the reactor vessel. Valve exercising during power operation would require cessation of feedwater flow through the associated loop and would cause fluctuations in the feedwater flow to the reactor vessel. Such fluctuations would cause unnecessary and undesirable reactor power transients, including possible reactor scram. Additionally, resumption of feedwater flow at power following valve closure could subject the reactor pressure feedwater nozzles and piping to thermal shock.

Proposed Alternative Testing:

Full stroke exercising to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-06

System:

Feedwater

ASME Code Components Affected:

1AEHV-F074A
1AEHV-F074B

Component/System Function:

These check valves are the reactor vessel feedwater supply header outboard check valves. The valves must open to provide HPCI/RCIC flow to the reactor vessel when these systems are required to operate. Additionally, the valves are containment isolation valves for the feedwater lines penetrating the primary containment boundary and must close in the initial stages of a design basis LOCA until the ECCS system(s) respond.

OM Code Category:

AC

ASME Code Class:

1

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

These check valves are equipped with pneumatic operators that provide air assist to ensure closure upon reversal of flow, but are not designed to provide the torque required to close the valve against full or partial feedwater flow conditions. The valves are located in the flow path for the main feedwater supply to the reactor vessel. Valve exercising during power operation would require cessation of feedwater flow through the associated loop and would cause fluctuations in the feedwater flow to the reactor vessel. Such fluctuations would cause unnecessary and undesirable reactor power transients, including possible reactor scram. Additionally, resumption of feedwater flow at power following valve closure could subject the reactor pressure feedwater nozzles and piping to thermal shock. The operators do not open the valves due to the dogged hinge pin design. Due to this design, operational readiness assessment and trending utilizing stroke time measurements is not feasible. Finally, testing these check valves during power operation requires entry into the steam tunnel, which is a locked high radiation area during power operation. Testing is an involved process, which would require significant man-rem to perform. Additionally, entry into the steam tunnel during power operation poses a significant personnel hazard due to the high ambient temperature.

Proposed Alternative Testing:

Full stroke exercising to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC. Full stroke exercising to the open position is verified every 3 months as required by paragraph ISTC-3510 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-07

System:

Residual Heat Removal

ASME Code Components Affected:

1BCHV-F008
1BCHV-F009
1BCHV-F015A
1BCHV-F015B
1BCHV-F017A
1BCHV-F017B
1BCHV-F017C
1BCHV-F017D

Component/System Function:

These valves are the reactor pressure isolation valves providing the high pressure/low pressure interface between the high pressure reactor coolant piping and the low pressure residual heat removal/low pressure core injection (RHR/LPCI) (BC) systems. Additionally, these valves are containment isolation valves for the associated system containment penetrations. The valves also have a safety function in the open position to provide low pressure core injection during a design basis accident or to provide a residual heat removal flow path for the safe shutdown of the plant.

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

These power operated valves are pressure isolation valves which provide the high/low pressure boundary interface between the reactor coolant system and the RHR/LPCI systems. Operating these valves during power operation when the reactor coolant system is at normal operating pressure would expose portions of the low pressure ECCS piping to a high pressure transient, with the potential for damage or failure of the low pressure piping and subsequent unavailability of the ECCS system. Additionally, the valves are interlocked closed during power operation or whenever reactor vessel pressure is greater than 82 psig. (UFSAR 7.6.1.2.2)

Proposed Alternative Testing:

Full stroke exercising and timing to the open and closed positions shall be performed on a cold shutdown frequency per paragraph ISTC- 3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

UFSAR 7.6.1.2.2

Cold Shutdown CS-08

System:

Residual Heat Removal / Core Spray

ASME Code Components Affected:

1BCHV-F041A
1BCHV-F041B
1BCHV-F041C
1BCHV-F041D
1BCHV-F050A
1BCHV-F050B
1BEHV-F006A
1BEHV-F006B

Component/System Function:

These valves are power operated testable check valves in the low pressure core injection (LPCI) (1BCHV_F041A-D), residual heat removal (RHR) (1BCHV-F050A/B), and core spray (1BEHV-F006A/B) systems. These valves have a safety function in the open position to provide a flow path for LPCI, reactor core decay heat removal and core spray when these systems are required to perform their respective safety functions. Additionally, the valves are reactor pressure isolation valves which provide the high pressure/low pressure interface between the high pressure reactor coolant piping and the low pressure RHR/LPCI (BC) and core spray (BE) systems.

OM Code Category:

AC

ASME Code Class:

1

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

These power operated check valves pressure isolation valves which provide the high/low pressure boundary interface between the high pressure reactor coolant system and the low pressure RHR/LPCI and core spray systems. Testing these valves during power operation when the reactor coolant system is at normal operating pressure would expose portions of the low pressure ECCS piping to a high pressure transient, with the potential for damage and failure of the low pressure piping and subsequent unavailability of the ECCS system.

Proposed Alternative Testing:

Full stroke exercising shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-09

System:

Control Rod Drive

ASME Code Components Affected:

1BFHV-3800A
1BFHV-3800B

Component/System Function:

These motor operated valves are located in the control rod drive to reactor recirculation pump seal purge lines, which provides cooling water to the reactor recirculation pump seals and thermal barriers. These valves are designated as containment isolation valves and perform an active safety function in the closed position to maintain containment integrity.

OM Code Category:

A

ASME Code Class:

2

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to ensure a continuous supply of cooling water to the thermal barriers of the reactor recirculation pumps. Exercising these valves to the closed position during power operation could jeopardize the integrity of the seal, with potential for unnecessary seal degradation or failure. Inadvertent valve failure in the closed position during testing would require plant shutdown, in addition to causing pump damage. The control circuitry associated with this valve does not provide for partial stroke capability.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-10

System:

Service Water

ASME Code Components Affected:

1EAHV-2207
1EAHV-2346

Component/System Function:

These motor operated valves are the reactor auxiliaries cooling system (RACS) service water supply and discharge to cooling tower basin valves. These valves have a safety function in the closed position to isolate the RACS service water from the safety auxiliaries cooling system (SACS) in the event of a design basis LOCA to ensure maximum cooling availability for safety-related components. The cooling tower basin return valve has a safety function in the closed position to prevent plant flooding due to tower basin draining in the event of a RACS service water piping failure.

OM Code Category:

B

ASME Code Class:

3

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to provide a service water cooling water flow path for the RACS heat exchangers. While RACS itself is not safety-related, these valves are ASME Class 3 and do perform a safety function in the closed position. However, closure of either of these valves during normal power operation disables both RACS loops, causing a loss of cooling water to the reactor recirculation pump motor air coolers, pump seal and motor oil coolers, the reactor water cleanup (RWCU) system non- regenerative heat exchangers, the RWCU pump seal coolers and the off-gas system. While not safety-related, this equipment allows for continued normal operation of the plant.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-11

System:

Service Water

ASME Code Components Affected:

1EAHV-2357A
1EAHV-2357B

Component/System Function:

These motor operated valves are the safety auxiliaries cooling system (SACS) service water discharge to cooling tower basin valves. These valves have a safety function in the closed position to prevent plant flooding due to tower basin draining in the event of a SACS service water piping failure.

OM Code Category:

B

ASME Code Class:

3

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to provide a service water cooling water flow path for the SACS heat exchangers. Closure of either of these valves during normal power operation disables the associated SACS loops, causing a loss of cooling water to an entire train of safety-related components. This is an undesirable condition, especially during summertime plant operation, with subsequent warmer ultimate heat sink temperatures. Although the plant is capable of supplying accident cooling loads with one loop of SACS service water, operation in this manner poses an unnecessary challenge to the plant and safety-related equipment during power operation.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-12

System:

Reactor Auxiliaries Cooling

ASME Code Components Affected:

1EDHV-2553
1EDHV-2554
1EDHV-2555
1EDHV-2556

Component/System Function:

These motor operated valves are located in the reactor auxiliaries cooling system (RACS) to the reactor recirculation pump motor oil and seal coolers. The valves have a safety function in the closed position to provide containment isolation during a design basis LOCA.

OM Code Category:

A

ASME Code Class:

2

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to provide a RACS cooling water flow path to the reactor recirculation pump motor oil and seal coolers. Closure of these valves during normal power operation isolates RACS to both reactor recirculation pumps, which could cause pump damage and result in an unnecessary shutdown of the plant.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-13

System:

Reactor Auxiliaries Cooling

ASME Code Components Affected:

1EDHV-2598
1EDHV-2599

Component/System Function:

These motor operated valves are located in the reactor auxiliaries cooling system (RACS) supply and return headers to the off-gas and radwaste systems. The valves have a safety function in the closed position to ensure adequate cooling water flow to the emergency air compressor during a loss of offsite power.

OM Code Category:

B

ASME Code Class:

NC

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to provide a RACS cooling water flow path to the offgas and radwaste systems. Closure of either of these valves during normal power operation isolates RACS to both feedgas condensers and the offgas refrigeration machine (glycol cooler). Loss of this cooling would cause increasing charcoal bed (absorber) inlet temperatures to a point where ignition of the charcoal could occur, causing an unplanned radioactive gaseous release.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC. These valves are non-class and are included in the IST Program as augmented testing.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-14

System:

Safety Auxiliaries Cooling (SACS)

ASME Code Components Affected:

1EGHV-2522E
1EGHV-2522F

Component/System Function:

These hydraulically operated valves are located in the safety auxiliaries cooling system (SACS) to the turbine auxiliaries cooling system (TACS). The valves have a safety function in the closed position to isolate the non-safety-related TACS from the SACS to ensure adequate cooling for safety-related components during a design basis accident.

OM Code Category:

B

ASME Code Class:

3

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves remain open to provide a TACS cooling water flow to various turbine auxiliary equipment. Closure of either of these valves during normal power operation isolates TACS cooling to the main turbine and main generator, the reactor feedwater pump turbine auxiliaries, in addition to other balance-of-plant equipment. Testing of these valves requires isolation of the TACS portion of SACS, which would result in a balance-of-plant component trip, causing an unnecessary plant transient and potential damage to this equipment.

Proposed Alternative Testing:

Full stroke exercising and timing to the closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-15

System:

Containment Instrument Gas

ASME Code Components Affected:

1KLHV-5148

Component/System Function:

The motor operated valve is located on the primary containment instrument gas (PCIG) compressor suction piping to allow isolation of the drywell as a suction source (1KLHV-5148). The drywell suction isolation has a safety function in the closed position to provide primary containment isolation in the event of a design basis accident.

OM Code Category:

A

ASME Code Class:

2

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

During normal plant operation, valve 1KLHV-5148 remains in the open position. Closure of this valve isolates the PCIG system to primary containment. Isolation of the system increases the probability of the inboard main steam isolation valves (MSIV) drifting partially closed, which would result in a reactor scram based on the MSIV not- full-open logic in the reactor protection system.

Proposed Alternative Testing:

Full stroke exercising and timing to the appropriate position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-16

System:

Containment Instrument Gas

ASME Code Components Affected:

1KLV-023
1KLV-024

Component/System Function:

These check valves are located in the primary containment instrument gas (PCIG) supply header. The valves have a safety function in the open position to supply instrument gas to the safety-related components in the drywell during normal plant operation and during a design basis accident.

OM Code Category:

C

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing these check valves to the open and closed position during power operation requires entry into the steam tunnel, which is a locked high radiation area during power operation. Testing is an involved process, which would require significant man-rem to perform. Additionally, entry into the steam tunnel during power operation poses a significant personnel hazard due to the high ambient temperature.

Proposed Alternative Testing:

Full stroke exercising to the open and closed position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-21

System:

Feedwater

ASME Code Components Affected:

1AEHV-F039

Component/System Function:

UFSAR Table 6.2-16 identifies this valve as a containment isolation valve. The valve is the third check valve in series, with valves 1AEHV-074A and 1AEV-007 for feedwater loop A and 1AEHV-074B and 1AEV-003 for feedwater loop B. UFSAR 6.2.4.3.1.2 states that this valve provides redundant isolation and long-term leakage protection upon operator judgment that continued makeup through the feedwater line is unavailable. This long-term seal protection is required to prevent a leakage path of fission products that would bypass the reactor building FRVS during a design basis accident. Long-term leakage protection is provided by the HPCI and RCIC systems, including 10 gpm from the keep-fill systems.

OM Code Category:

A, C

ASME Code Class:

2

Applicable Code Requirement:

This valve is a stop check valve, which operates as a normal check valve with a motor operator to assure closure. Therefore, it is both a Category A and C valve. Active Category A, B and C valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

This valve is normally open during plant operation. Quarterly testing requires the removal of the system from service for a period of time. The process of removal and restoration is an activity with potential for system water hammer, loss of viable filter beds and degradation of plant chemistry. Reactor coolant chemistry control is required during all normal operating modes. Failure to maintain water chemistry control would result in a forced shutdown of the reactor.

Proposed Alternative Testing:

Full stroke exercising and timing to the appropriate position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-22

System:

Reactor Water Cleanup

ASME Code Components Affected:

1BGHV-F001
1BGHV-F004

Component/System Function:

This valve is a containment isolation valve. The valve will automatically close on receipt of a reactor vessel low water level for containment isolation; or a RWCU system-area high temperature, a RWCU system-area high differential temperature, a RWCU system- high differential flow for isolation of a RWCU process line break. The valve will also automatically close on receipt of a standby liquid control (SLC) system operating signal. The valve must close during a SLC initiation to prevent boron dilution during an ATWS event

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

These valves are normally open during plant operation. Quarterly testing requires the removal of the system from service for a period of time. The process of removal and restoration is an activity with potential for system water hammer, loss of viable filter beds and degradation of plant chemistry. Reactor coolant chemistry control is required during all normal operating modes. Failure to maintain water chemistry control would result in a forced shutdown of the reactor.

In addition, 1BGHV-F001 is located in primary containment, which is inaccessible during power due to high radiation levels and an inerted atmosphere. Failure of this valve in the closed position would result in a complete loss of the reactor water clean up system.

Proposed Alternative Testing:

Full stroke exercising and timing to the appropriate position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of
ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Cold Shutdown CS-23

System:

High Pressure Coolant Injection

ASME Code Components Affected:

1FDHV-F002
1FDHV-F100

Component/System Function:

HPCI STEAM SUPPLY INBD CONT ISOL VALVE
HPCI WARMUP LINE INBD CONT ISO VALVE

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

The HPCI Steam Supply Inboard Containment Isolation valve is normally open during plant operation to provide steam flow to the HPCI turbine upon system initiation. The valve is normally open when the pump is in standby to maintain the steam supply header warm and minimize condensate in the piping which could cause turbine overspeed on rapid startup. The valve is a containment isolation valve for penetration P7 and will automatically close on receipt of a HPCI turbine exhaust pressure high, a HPCI area temperature high, a HPCI steam pressure low or a HPCI steam flow high signal. Such signals are indicative of a HPCI system fault and serve to isolate the system from the reactor vessel. Once the valve closes automatically, operator action is required to correctly restore the system to operation, including verification of system integrity.

The HPCI Warmup Line Inboard Containment Isolation Valve is normally closed during plant operation and is only opened to warm up the HPCI steam supply line and equalize around steam supply valve 1FDHV- F002 during initial system startup. The valve is also a containment isolation valve for penetration P7. The valve is normally closed during plant operation with the HPCI system in a standby lineup. The valve is only opened to bypass around steam supply valve 1FDHV- F002 during initial system startup or following maintenance activities. This bypass allows the steam to enter the HPCI steam supply line to slowly heat up the piping and remove condensate. Once the pressure across 1FDHV-F002 is equalized, the valve is opened and warm up valve 1FDHV-F100 is closed.

Quarterly testing requires the removal of the HPCI system from service for a period of time. During normal plant operation these valves are inaccessible due to the inerted containment. Failure of the HPCI Steam Supply Inboard Containment Isolation valve to re-open would result in total loss of the HPCI system safety function. Conversely, failure of the HPCI Warmup Line Inboard Containment Isolation valve to re-close would require the penetration to be isolated and likewise result in a total loss of the HPCI system safety function. Testing under these conditions creates the potential to result in an unnecessary plant shut down.

NUREG 1482, Revision 1, Sections 2.4.5, 3.1.1 and 3.1.2 provide sufficient guidance to conclude that these valves should be tested under cold shutdown conditions.

Proposed Alternative Testing:

Full stroke exercising and timing to the appropriate position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1, Sections 2.4.5, 3.1.1 and 3.1.2

Cold Shutdown CS-24

System:

Reactor Core Isolation Cooling

ASME Code Components Affected:

1FCHV-F007
1FCHV-F076

Component/System Function:

RCIC STEAM SUPPLY INBD CONT ISO VALVE
RCIC WARMUP LINE INBD CONT ISO VALVE

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves shall be tested nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

The RCIC Steam Supply Inboard Containment Isolation valve is normally open during plant operation to provide steam flow to the RCIC turbine upon system initiation. The valve is normally open when the pump is in standby to maintain the steam supply header warm and minimize condensate in the piping which could cause turbine overspeed on rapid startup. The valve is a containment isolation valve for penetration P11 and will automatically close on receipt of a RCIC turbine exhaust pressure high, a RCIC area temperature high, a RCIC steam pressure low or a RCIC steam flow high signal. Such signals are indicative of a RCIC system fault and serve to isolate the system from the reactor vessel. Once the valve closes automatically, operator action is required to correctly restore the system to operation, including verification of system integrity.

The RCIC Warmup Line Inboard Containment Isolation Valve is normally closed during plant operation and is only opened to warm up the RCIC steam supply line and equalize around steam supply valve 1FCHV- F007 during initial system startup. The valve is also a containment isolation valve for penetration P11. The valve is normally closed during plant operation with the RCIC system in a standby lineup. The valve is only opened to bypass around steam supply valve 1FCHV- F007 during initial system startup or following maintenance activities. This bypass allows the steam to enter the RCIC steam supply line to slowly heat up the piping and remove condensate. Once the pressure across 1FCHV-F007 is equalized, the valve is opened and warm up valve 1FCHV-F076 is closed.

Quarterly testing requires the removal of the RCIC system from service for a period of time. During normal plant operation these valves are inaccessible due to the inerted containment. Failure of the RCIC Steam Supply Inboard Containment Isolation valve to re-open would result in total loss of the RCIC system safety function. Conversely, failure of the RCIC Warmup Line Inboard Containment Isolation valve to re-close would require the penetration to be isolated and likewise result in a total loss of the RCIC system safety function. Testing under these conditions creates the potential to result in an unnecessary plant shut down.

NUREG 1482, Revision 1, Sections 2.4.5, 3.1.1 and 3.1.2 provide sufficient guidance to conclude that these valves should be tested under cold shutdown conditions.

Proposed Alternative Testing:

Full stroke exercising and timing to the appropriate position shall be performed on a cold shutdown frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1, Sections 2.4.5, 3.1.1 and 3.1.2

ATTACHMENT 3

REFUELING OUTAGE JUSTIFICATIONS

REFUELING OUTAGE JUSTIFICATION INDEX

NUMBER	APPLICABLE COMPONENTS	REVISION
RJ-01	1ABHV-F022A/B/C/D	0
RJ-02	Main Steam PRV Accumulator Air Supply Check Valves	0
RJ-03	1ABV-051/052/053/054	0
RJ-04	1AEV-003/007	0
RJ-05	PLACE HOLDER – Not used for Interval 3	n/a
RJ-06	1BBV-043/047	0
RJ-07	1BBV-232/233/239/ 240/246/247/253/254	0
RJ-08	PLACE HOLDER – Not used for Interval 3	n/a
RJ-09	1BFV-115 (Typical of 185 HCUs)	0
RJ-10	1BHV-029, 1BHHV-F006A/F006B	0
RJ-11	1EGV-029/031	0
RJ-12	1SEV-006	0
RJ-13	1GSV-054/055	0
RJ-14	1BHV-004/005	0

Refueling **Outage RJ-01**

System:

Main Steam and Drains

ASME Code Components Affected:

1ABHV-F022A
1ABHV-F022B
1ABHV-F022C
1ABHV-F022D

Component/System Function:

These valves are the inboard main steam isolation valves. The valves have a safety function in the closed position to provide containment isolation for the main steam headers. Additionally, they form the pressure boundary for the main steam isolation valve sealing system, which is operated post-LOCA as required to seal the main steam headers and prevent primary and secondary containment bypass leakage.

OM Code Category:

A

ASME Code Class:

1

Applicable Code Requirement:

Active Category A and B valves with fail-safe actuators shall be tested by observing the operation of the actuator upon loss of valve actuating power nominally every 3 months, in accordance with the requirements of ISTC , paragraphs ISTC-3510.

Reason for Request:

The fail-safe testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Fail-safe testing of the inboard MSIVs will be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-02**

System:

Main Steam and Drains

ASME Code Components Affected:

1ABV-043
1ABV-044
1ABV-045
1ABV-046
1ABV-047
1ABV-048
1ABV-049
1ABV-050
1ABV-109
1ABV-110
1ABV-111
1ABV-112
1ABV-113
1ABV-114

Component/System Function:

These check valves supply instrument air (nitrogen) to the main steam safety relief valve accumulators. The valves have a safety function to close to prevent the accumulator from depressurizing when the primary containment instrument gas compressors are isolated during a design basis LOCA. The valves have a safety function in the open position to allow recharging of the accumulators following valve actuations.

OM Code Category:

A, C

ASME Code Class:

3

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Full stroke exercising to the open and closed positions shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-03**

System:

Main Steam and Drains

ASME Code Components Affected:

1ABV-051
1ABV-052
1ABV-053
1ABV-054

Component/System Function:

These valves supply instrument air (nitrogen) to the inboard main steam isolation valve accumulators. The valves have a safety function to close to prevent the accumulator from depressurizing when the primary containment instrument gas (PCIG) compressors are isolated during a design basis LOCA.

OM Code Category:

A, C

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Full stroke exercising to the open and closed position shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-04**

System:

Feedwater

ASME Code Components Affected:

1AEV-003
1AEV-007

Component/System Function:

These valves are the reactor vessel feedwater supply inboard check valves. The valves have an active safety function to open to provide HPCI and RCIC flow to the reactor vessel when these systems are required to operate. Additionally, the valves are containment isolation valves for the feedwater supply lines penetrating the primary containment boundary and must close on the initial stages of a design basis LOCA until the ECCS system(s) respond.

OM Code Category:

A, C

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Full stroke exercising to the closed position shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC . Satisfactory completion of the 10CFR50 Appendix J leak test will verify closure of the valves. This position is supported by NUREG-1482, paragraph 4.1.6.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling Outage RJ-06

System:

Reactor Recirculation

ASME Code Components Affected:

1BBV-043
1BBV-047

Component/System Function:

These check valves provide control rod drive (CRD) purge water to the reactor recirculation pump seals. The valves have a safety function to close to provide primary containment isolation during a design basis LOCA when the CRD pumps are secured.

OM Code Category:

A, C

ASME Code Class:

1

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Full stroke exercising to the closed position shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-07**

System:

Reactor Recirculation

ASME Code Components Affected:

1BBV-232
1BBV-233
1BBV-239
1BBV-240
1BBV-246
1BBV-247
1BBV-253
1BBV-254

Component/System Function:

These valves were installed to address NRC Bulletin 93-03 and supply control rod drive (CRD) water to each of the reactor water level instrumentation reference legs. This water supply minimizes void formation in the level instrumentation reference legs in the event of a rapid depressurization event occurring during normal power operation. The valve's have a safety function in the closed position to prevent draining of the instrumentation reference lines when the CRD pumps are secured during a design basis LOCA.

OM Code Category:

C

ASME Code Class:

2

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

These valves are connected to instrument sensing lines that initiate logic circuits or process control parameters that are required during power operation and during cold shutdown conditions. Testing of these valves at the Code required frequency of 3 months or during cold shutdowns would either disable safety initiation logic or unnecessarily challenge safety systems.

Open and close verification at a refueling outage frequency is adequate, since two redundant check valves are installed in the instrument fill lines. Additionally, the instruments, reference leg fill lines and associated check valves are separated from the reactor vessel by an ASME Class 1 excess flow check valve, which will close to prevent intersystem leakage should both check valves fail simultaneously.

Proposed Alternative Testing:

Full stroke exercising to the open and closed position shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Refueling Outage RJ-09

System:

Control Rod Drive

ASME Code Components Affected:

1BFV-115 (Typical of 185 HCUs)

Component/System Function:

This valve supplies water makeup and pressure from the control rod drive (CRD) pumps to the CRD hydraulic control unit (HCU). In the event that the charging header depressurizes or the CRD pumps are secured, this valve closes to prevent the loss of HCU accumulator inventory/pressure. HCU accumulator pressure is required for a control rod scram at low reactor coolant pressures.

OM Code Category:

C

ASME Code Class:

3

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC, paragraph ISTC-3510.

Reason for Request:

Exercising these valves requires securing both CRD pumps, depressurizing the charging water header and monitoring pressure in the accumulators, which is an extensive test. In addition to supplying the CRD accumulators, the CRD pumps supply cooling water to the CRD mechanisms and to the reactor recirculation pumps. Loss of cooling water to the reactor recirculation pumps during power operation could result in a reactor scram. The testing method (HCU accumulator pressure decay test) is extensive and would be burdensome to perform at a cold shutdown frequency in that it could cause delay in plant recovery solely for surveillance testing.

Proposed Alternative Testing:

Full stroke exercising shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC . Valve closure will be verified by securing both CRD pumps simultaneously, and verifying that eachHCU accumulator alarm does not annunciate for a period of 2 minutes. This position is supported by NRC Generic Letter 89-04, Staff position 7.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

NRC Generic Letter 89-04

Refueling **Outage RJ-10**

System:

Standby Liquid Control

ASME Code Components Affected:

1BHV-029
1BHHV-F006A
1BHHV-F006B

Component/System Function:

These check valves have a safety function to open to allow standby liquid control solution injection into the core in the event that shutdown of the reactor is not possible using normal reactivity control systems. Valves 1BHHV-F006A and -F006B are stop check valves provided with motor operators to allow operator action to positively close the valves when required to maintain primary containment isolation integrity following system actuation. All three valves are credited as containment isolation valves.

OM Code Category:

A, C

ASME Code Class:

1

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

During normal plant operation, these valves are closed and the standby liquid control system is isolated from the reactor vessel by two explosive actuated squib valves. There are no provisions for individual component testing at power or on a cold shutdown frequency. Testing in the open position would require establishing flow conditions through the valves by firing the explosive squib valves, which destroys the valve, and starting the system pumps. The motor operator for the stop check valves are provided to positively close the valves on cessation of flow and will not move the valves to the open position. Extensive flushing is required in preparation for the flow test to ensure that no boron solution is injected into the reactor vessel. Performance of this flushing on a cold shutdown frequency is burdensome and could cause delay in plant recovery solely for surveillance testing.

Performance of the exercise close test for these valves during power operation and cold shutdown would be equally burdensome. Positive obturator position verification for valve 1BHV-029 would require entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing of check valve 1BHV-029 during cold shutdown would require extensive preparations, including deinerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing.

Section 3.1.1.3 of NUREG-1482 discusses deinerting containment of boiling water reactors (BWRs) to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be deinerted for performance of this testing.

Valves 1BHHV-F006A and -F006B are provided with motor operators and can be stroke timed to the closed position to monitor and trend motor operator performance, but actual obturator movement is not observed since the operator can not open the valve. Stroke timing is performed solely to verify the ability to remote manually close the valve (s). Actual obturator positioning to the closed position is verified during performance of the seat leakage test performed in accordance with 10CFR50, Appendix J.

Proposed Alternative Testing:

Full stroke exercising shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

The valves will be exercised to the open position in conjunction with the standby liquid control injection test performed once per 18 months per Hope Creek Technical Specification 4.1.5.d.1.

The close function of these valves will be verified by satisfactory completion of the seat leakage tests performed every two years as required by 10CFR50, Appendix J. Additionally, valves 1BHHV-F006A and -F006B are verified to be closed every quarter during the stroke timing of the motor operator.

Testing at these frequencies meets the requirements of ISTC , paragraphs ISTC-3520 and is supported by NUREG-1482, Section 3.1.1.3.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Hope Creek Technical Specification 4.1.5.d.1

Refueling Outage RJ-11

System:

Safety Auxiliaries Cooling (SACS)

ASME Code Components Affected:

1EGV-029
1EGV-031

Component/System Function:

These check valves isolate the nonsafety-related turbine auxiliaries cooling system (TACS) return from the safety-related safety auxiliaries cooling system (SACS). The valves are installed in series for redundant isolation to ensure that a line break in the TACS does not prevent the SACS from performing its safety function. Valve 1EGV-031 is the ASME class break for SACS.

OM Code Category:

C

ASME Code Class:

3

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

These valves must be open to provide TACS cooling flow. The TACS supplies cooling water to the turbine and main generator, the reactor feedwater pump turbine auxiliaries as well as other balance of plant components. Testing of these valves requires securing and depressurizing the TACS and verifying back flow through the valves. Securing the TACS during power operation could result in a balance of plant reactor scram (i.e. main turbine trip due to high bearing lube oil temperature), as well as cause severe damage to the rotating equipment.

Testing of these valves during cold shutdown is impractical due to the extensive preparations required to perform the closure test. Performance of the test could delay plant recovery solely to complete surveillance testing.

Proposed Alternative Testing:

Full stroke exercising shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

Refueling **Outage RJ-12**

System:

Neutron Monitoring (TIPS)

ASME Code Components Affected:

1SEV-006

Component/System Function:

This check valve supplies nitrogen to the traversing incore probe (TIP) purge and serves as a containment isolation valve. The valve must close during a design basis LOCA to prevent fission product release through the TIP purge tube should valve 1SEHV-5161 fail to close.

OM Code Category:

A, C

ASME Code Class:

1

Applicable Code Requirement:

Category C check valves shall be exercised nominally every 3 months, in accordance with the requirements of ISTC , paragraph ISTC-3510.

Reason for Request:

Testing of these valves requires entry into primary containment, which is inerted with an oxygen deficient atmosphere and is inaccessible during power operation.

Testing during cold shutdown would require extensive preparations, including de-inerting operations, system isolation, realignment for testing, and system restoration. Such actions are impractical for short duration shutdowns and could cause delays in plant recovery solely due to surveillance testing. Section 3.1.1.3 of NUREG-1482 discusses de-inerting containment of boiling water reactors to allow cold shutdown testing. This guidance states that the staff has determined that there are few outages that require deinerting and that maintaining a separate schedule for valve testing was not warranted. NUREG-1482 recommends that valves in inerted containments be tested during refueling outages if they would otherwise be tested during cold shutdown outages that require the containment to be de-inerted for performance of this testing.

Proposed Alternative Testing:

Full stroke exercising to the closed position shall be performed on a refueling outage frequency per paragraph ISTC-3520 of ISTC. Satisfactory completion of the 10CFR50, Appendix J leak test will verify closure of the valves. This position is supported by NUREG-1482, paragraph 4.1.6.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-13**

System:

Containment Atmospheric Control

ASME Code Components Affected:

1GSV-054
1GSV-055

Component/System Function:

These check valves are located in the drywell nitrogen makeup lines around containment isolation valves 1GSHV-4974, 1GSHV-4984B and 1GSHV-5019B for 1GSV-054 and 1GSHV-4974, 1GSHV-4966B and 1GSHV-5022B for 1GSV-055. The valves perform an active safety function in the closed position to prevent the H2/O2 drywell sample from bypassing the analyzer to the suppression pool through the nitrogen purge lines. Such a bypass flow could result in erroneous sample readings during a design basis LOCA.

OM Code Category:

C

ASME Code Class:

2

Applicable Code Requirement:

Closed Position - Check valves shall be exercised at least once every 3 months, in accordance with the requirements of ISTC-3510.

Reason for Request:

During normal plant operation these valves can be either open or closed, depending on the need for nitrogen in the drywell. Individually exercising these check valves to the closed position would require securing the "B" H2O2 analyzer supply and return lines
and applying a temporary pressure source between the containment isolation valves and the check valve to verify closure. This activity, during power operation, would challenge the integrity of the containment isolation valves, due to the need to perform a pressure test on the penetrations containing the check valves every 92 days versus the normal Appendix J leak rate test performed every 18 months on the penetrations. To perform the test, the analyzer will be out of service and in a LCO. Additionally, the challenge to containment integrity every 92 days would outweigh the benefit achieved with a quarterly test.

Proposed Alternative Testing:

These check valves shall be exercised to the closed position at refueling during the performance of Appendix J seat leakage testing of the penetrations. This alternate test frequency and method of testing is supported by NUREG - 1482, Paragraph 3.1.1. Testing shall be performed in accordance with the provisions of paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

Refueling **Outage RJ-14**

System:

Standby Liquid Control

ASME Code Components Affected:

1BHV-004
1BHV-005

Component/System Function:

These check valves must close to prevent failure of the pump discharge relief valve in the open position from affecting the performance of both pumps and thereby preventing design SLC injection into the core.

OM Code Category:

C

ASME Code Class:

2

Applicable Code Requirement:

Closed Position - Check valves shall be exercised at least once every 3 months, in accordance with the requirements of ISTC – ISTC-
3510.

Reason for Request:

During normal plant operation these valves are tested during normal quarterly pump surveillances. There is no problem with testing the valves in the open direction. Individually exercising these check valves to the closed position requires the use of radiography, as there are no test connections between the pump discharge and the check valves. Due to radiography being considered a potentially high-risk evolution and the fact that the radiography source is being removed from the site, performance of this test on a quarterly
basis would prove to be a hardship.

Proposed Alternative Testing:

These check valves shall be exercised to the closed position at refueling outages. The method of test will be either removal of the pump discharge relief valves and pressurizing the line downstream of the check valves to test for back leakage or, if a radiography source is on site for the outage, radiography of the check valves. This alternate test frequency and method of testing is supported by NUREG - 1482, Paragraph 3.1.1. Testing shall be performed in accordance with the provisions of paragraph ISTC-3520 of ISTC.

References:

OM Code-2001 Edition through ASME OMb Code-2003, Subsection ISTC

NUREG 1482, Revision 1

ATTACHMENT 4

PUMP 10CFR50.55a REQUESTS

PUMP 10CFR50.55a REQUEST INDEX INDEX

NUMBER	APPLICABLE COMPONENTS	REVISION
P-01	HPCI Pump Flow Instrument 1BJFIC-R600-E41	0
P-02	RCIC Pump Flow Instrument 1BDFIC-R600-E51	0

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Proposed Alternative in Accordance with 10 CFR 50.55a(a)(3)(ii)

Hardship or Unusual Difficulty
without Compensating Increase in Level of Quality or Safety

System:

High Pressure Coolant Injection System

ASME Code Components Affected:

10P204
10P217

Component/System Function:

High Pressure Coolant Injection Pump
High Pressure Coolant Injection Booster Pump

The HPCI pump is an ECCS component that is also used to maintain reactor vessel inventory following reactor isolation with coincident failure of the non-ECCS RCIC system.

The HPCI Booster pump is integral with the HPCI pump in that they are driven off the same turbine. The Booster pump ensures that the minimum net positive suction head requirements of the HPCI pump are maintained for the design accident flow rates.

Applicable Code Edition and Addenda:

ASME OM Code-2001 Edition through ASME OMb Code-2003

OM Code Category:

Group B Pumps

Applicable Code Requirement:

Subsection ISTB, Paragraph ISTB-3510, “General”, Subparagraph (a), “Accuracy”, Instrument accuracy shall be within +/- 2% of full scale as defined in Table ISTB-3500-1.

Reason for Request:

The permanently installed flow instrument 1BJFIC-R600-E41 does not meet the 2 percent acceptable instrument accuracy specified in Table ISTB- 3500-1. The table below lists the actual instrument loop accuracy. This loop accuracy has been calculated from the transmitter to the indicator in the main control room.

Pump testing requires operation of the HPCI turbine, adding heat to the suppression pool throughout the test. Use of temporary field instrumentation would create an unusual difficulty since speed and flow must be set and controlled at the reference values from the main control room. Use of temporary field instrumentation would require additional communication with personnel in the field, prolonging the test, while the test duration is severely limited due to heat addition to the suppression pool.

As indicated in the table below, the installed instrumentation has a full-scale range of 6000 gpm, which only slightly exceeds the pump flow reference value of 5600 gpm (full scale equals 1.07 times reference) with an accuracy of +3.83% and –0.67% of full scale. This results in flow rate measurements accurate to +4.1% or -0.72% of indicated flow at reference conditions (5600 gpm), which is more conservative than the 6% minimum accuracy allowed by the combination of instrument full-scale range and accuracy allowed in Subsection ISTB. The current instrumentation provides sufficient repeatability to allow for an evaluation of the pump hydraulic condition and detect pump degradation. Installation of a new flow rate instrument would constitute a hardship and a burden without a compensating increase in plant safety since it would be expensive and would not provide better indication accuracy or readability.

Supporting Data Table

Instrument Number: 1BJFIC-R600

Actual Instrument Range: 0-6000 gpm

Actual Gauge (Loop) Accuracy: +3.83 / -0.67% of full scale

Test Reference Value: 5600 gpm

Code Allowable Instrument Range: 16,800 gpm
(3X ref. value)
Code Allowable Instrument Tolerance: +/-336 gpm
(2% full scale at 3X reference value)

Actual Instrument Tolerance +229.8 gpm/ -40.2 gpm

Actual Indicated Accuracy: +4.1 / -0.72%
(at reference value)

Proposed Alternative and Basis for Use:

NUREG-1482, Rev.1, Section 5.5.1, "Range and Accuracy of Analog Instruments", states; When the range of a permanently installed analog instrument is greater than three times the reference value, but the accuracy of the instrument is more conservative than that required by the Code, the staff may grant relief when the combination of the range and accuracy yields a reading that is as at least equivalent to that achieved using instruments that meet the Code requirements (i.e., up to +/-6 percent for Group A and B tests, and +/-1.5 percent for pressure and differential pressure instruments for Preservice and Comprehensive tests). The instruments identified on the above Table are permanent plant instrumentation that satisfy the guidance provided in NUREG-1482, Rev.1, Section 5.5.1.

Proposed Alternative Testing:

Using the provisions of this 10CFR50.55a Request, as an alternative to the requirements of ISTB-3510(b)(1), the permanent plant instrument yields a reading that is as at least equivalent to that achieved using instruments that meet the Code requirements as described in NUREG-1482, Rev.1, Section 5.5.1.

The existing permanently installed flow instrumentation is acceptable for pump inservice testing.

Duration of Proposed Alternative:

The proposed alternative identified in this 10CFR50.55a Request shall be utilized during the Third Ten Year IST Interval.

Precedents:

This 10CFR50.55a Request was previously authorized pursuant to 10CFR50.55a(a)(3)(ii) for Interval 2 per NRC SER dated March 18, 1999 (TAC MA0425 and MA1430) and Interval 1 per NRC SER dated September 27, 1990 (TAC 65730).

The circumstances and basis for the previous NRC approval have not changed. The HPCI Booster and Injection pumps are Group B Standby System pumps and as such the aging factors applicable to these Code components since the approval of the prior 10CFR50.55a Request are insignificant.

Although technology exists to use more precise temporary instrumentation, the combination of the range and accuracy of the existing permanent plant instrumentation more than meets the minimum Code requirements.

References:

NUREG-1482, Revision 1, "Guidelines for Inservice Testing at Nuclear Power Plants"

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Proposed Alternative in Accordance with 10 CFR 50.55a(a)(3)(ii)

--Alternative Provides Acceptable Level of Quality and Safety--

System:

Reactor Core Isolation Cooling

ASME Code Components Affected:

10P203

Component/System Function:

Reactor Core Isolation Cooling Pump

While not credited as an ECCS component, the RCIC pump is safety-related and provides demineralized make-up water to the reactor vessel in the event that the reactor vessel is isolated.

Applicable Code Edition and Addenda:

OM Code-2001 Edition through ASME OMb Code-2003

OM Code Category:

Group B Pumps

Applicable Code Requirement:

Subsection ISTB, Paragraph ISTB-3510, “General”, Subparagraph (a), “Accuracy”, Instrument accuracy shall be within +/- 2% as defined in Table ISTB-3500-1.

Reason for Request:

The permanently installed flow instrument 1 BDFIC-R600-E51 does not meet the 2 percent acceptable instrument accuracy specified in Table ISTB- 3500-1. The table below lists the actual instrument loop accuracy. This loop accuracy has been calculated from the transmitter to the indicator in the main control room.

Pump testing requires operation of the RCIC turbine, adding heat to the suppression pool throughout the test. Installation of temporary field instrumentation is not preferable since speed and flow must be set and controlled at the reference values from the main control room. Use of temporary field instrumentation would require additional communication with personnel in the field, prolonging the test, while the test duration is limited due to heat addition to the suppression pool.

As indicated in the table below, the installed instrumentation has a full-scale range of 700 gpm, which only slightly exceeds the pump flow reference valve of 600 gpm (full scale equals 1.17 times reference) with an accuracy of +2.49% and -2.49% of full scale. This results in flow rate measurements accurate to +2.9% or -2.9% of indicated flow at reference conditions (600 gpm), which is more conservative than the 6% required accuracy allowed by the combination of instrument full-scale range and accuracy allowed in Subsection ISTB. The current instrumentation provides sufficient repeatability to allow for an evaluation of the pump hydraulic condition and detect pump degradation.

Supporting Data Table:

Instrument Number: 1 BDFIC-R600

Actual Instrument Range: 0-700 gpm

Actual Gauge (Loop) Accuracy: +2.49 / -2.49%

Test Reference Value: 600 gpm

Code Allowable Instrument Range: 1,800 gpm
(3X ref. value)

Code Allowable Instrument Tolerance: +/-36 gpm
(2% of full scale at 3X reference value)

Actual Instrument Tolerance: 17.43 gpm / -17.43 gpm

Actual Indicated Accuracy: +2.9/ -2.9%
(at reference value)%

Proposed Alternative and Basis for Use:

NUREG-1482, Rev.1, Section 5.5.1, “Range and Accuracy of Analog Instruments”, states; When the range of a permanently installed analog instrument is greater than three times the reference value, but the accuracy of the instrument is more conservative than that required by the Code, the staff may grant relief when the combination of the range and accuracy yields a reading that is as at least equivalent to that achieved using instruments that meet the Code requirements (i.e., up to +/-6 percent for Group A and B tests, and +/-1.5 percent for pressure and differential pressure instruments for Preservice and Comprehensive tests). The instruments identified on the above Table are permanent plant instrumentation that satisfy the guidance provided in NUREG-1482, Rev.1, Section 5.5.1.

Proposed Alternative Testing:

Using the provisions of this 10CFR50.55a Request, as an alternative to the requirements of ISTB-3510(b)(1), the permanent plant instrument yields a reading that is as at least equivalent to that achieved using instruments that meet the Code requirements as described in NUREG-1482, Rev.1, Section 5.5.1.

The existing permanently installed flow instrumentation is acceptable for pump inservice testing.

Duration of Proposed Alternative:

The proposed alternative identified in this 10 CFR 50.55a Request shall be utilized during the Third Ten Year IST Interval.

Precedents:

Hope Creek

The proposed alternative was previously authorized pursuant to 10CFR50.55a(a)(3)(ii) for Interval 2 per NRC SER dated March 18, 1999 (TAC MA0425 and MA1430) and Interval 1 (P-6) per NRC SER dated September 27, 1990 (TAC 65730).

The circumstances and basis for the previous NRC approval have not changed. The RCIC Pump is a Group B Standby System pump and as such the aging factors applicable to this Code component since the approval of the prior 10CFR50.55a Request are insignificant.

Although technology exists to use more precise temporary flow instrumentation, the combination of the range and accuracy of the existing permanent plant instrumentation more than meets the minimum Code requirements.

References:

NUREG-1482, Revision 1, “Guidelines for Inservice Testing at Nuclear Power Plants”

ATTACHMENT 5

VALVE 10CFR50.55a REQUESTS

VALVE 10CFR50.55a REQUESTS INDEX

NUMBER	APPLICABLE COMPONENTS	REVISION
V-01	PLACE HOLDER – Not used for Interval 3	n/a
V-02	Main Steam Safety Relief Valves	0
V-03	PLACE HOLDER – Not used for Interval 3	n/a
V-04	Main Steam Safety Relief Valves	0
V-05	PLACE HOLDER – Not used for Interval 3	n/a
V-06	PLACE HOLDER – Not used for Interval 3	n/a
V-07	Use of Code Case OMN-8 for Control Valves	0

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Proposed Alternative In Accordance with 10CFR50.55a(a)(3)(i)

--Alternative Provides Acceptable Level of Quality and Safety--

System:

Main Steam and Automatic Depressurization

ASME Code Components Affected:

1SNPSV-F013A, B, C, D, E
1ABPSV-F013F, G, H, J, K, L, M, P, R

Component/System Function:

These valves have a safety function in the open position to provide overpressure protection for the main steam header and the reactor vessel. Additionally, valves 1SNPSV-F013A-E also serve an ECCS function in the Automatic Depressurization System (ADS) to depressurize the reactor vessel in the event of a small break LOCA coincident with a failure of the High Pressure Coolant Injection (HPCI) system.

Applicable Code Edition and Addenda:

ASME OM Code 2001 through 2003 Addenda

OM Code Category:

C

Applicable Code Requirement:

Paragraph I-3310 of Mandatory Appendix I specifies the periodic testing requirements of ASME Class 1 main steam pressure relief valves with auxiliary actuating devices. The frequency of the required testing is specified in paragraph I-1320 of Mandatory Appendix I.

Mandatory Appendix I requires that these main steam relief valves be periodically tested at least once every five years, with a minimum of 20% of the valves tested within any 24 months, where the 20% shall be previously untested valves, if they exist.

The Code required periodic testing for these valves includes, in part: seat tightness determination; set pressure determination; determination of electrical characteristics and pressure integrity of solenoid valve(s); determination of pressure integrity and stroke capability of air actuator; and determination of operation and electrical characteristics of position indicators.

Reason for Request:

Hope Creek UFSAR 5.2.2.4.2.1.3 discusses the testing frequency of the safety relief valves (SRVs). This section states that Hope Creek "can achieve optimum SRV operability by disassembly of the pilot section of at least 50 percent of the operating SRVs after each cycle." PSE&G implements the appropriate inspection guidance specified in General Electric SIL No. 196.

The SIL recommends that refurbishment of the pilot disc and seat be performed at least once every other outage or every three years, whichever comes first, or if the "as received" condition indicates that a sticking pilot disc to seat condition exists (SIL 196, Supplement 14, recommended action #2).

Based on SIL recommendations, it is evident that the concern associated with SRV operation centers on the pilot portion of the valve, and its ability to perform its intended function. A review of NRC Information Notices 82-41, 83-39, 83-82, 86-12 and 88-30 supports this conclusion, indicating that the pilot portions of these valves require diligent testing.

Hope Creek Technical Specification Surveillance Requirement (SR) 4.4.2.2 requires that at least one half (1/2) of the safety relief valve pilot stage assemblies be removed, set pressure tested and reinstalled or replaced with spares that have been previously set pressure tested and stored per manufacturer's recommendations at least once per 18 months. Additionally, those removed shall be rotated such that all 14 safety relief valve pilot stage assemblies are removed, set pressure tested, and reinstalled or replaced with spares at least once per 40 months.

Hope Creek Technical Specification SR 4.4.2.3 requires that the safety relief valve main (mechanical) stage assemblies be removed, set pressure tested and reinstalled or replaced with spares that have been previously set pressure tested at least once every five years.

The Hope Creek Main Steam SRVs are of a two-stage design. The first stage (pilot stage) utilizes a spring loaded pilot disc to sense the set pressure and a pressure loaded stabilizer disc to sense the reseat pressure. Spring force (preload force) is applied to the pilot disc by means of a pilot rod. Thus, the adjustment of the spring preload force will determine the set pressure of the valve. The second stage (main stage) is tightly seated by the combined forces exerted by the preload spring on the main disc and the system internal pressure acting over the area of the disc. In the closed position, the static pressures will be equal in the valve inlet nozzle and in the chamber over the main stage. This pressure equalization is made possible by the internal passages provided (i.e., piston ring gap, vent hole, drain groove and stabilizer disc seat). When the system pressure increases to the valve set pressure, pilot stage operation will vent the chamber over the main stage piston to the downstream of the valve via internal porting. This venting produces a differential pressure across the main stage piton in the direction tending to unseat the valve.

The main stage piston is sized such that the resultant opening force is greater than the combined spring preload and the system pressure seating force.

Proposed Alternative and Basis for Use:

The true setpoint adjustment (and operability determination) of the valve is contained within the pilot portion of the SRV. By applying the SRV testing frequency required by Mandatory Appendix I to the pilot portion (achieved by meeting Technical Specification 4.4.2.2), set point accuracy and pilot sticking verification can be maintained, providing an acceptable level of safety. Testing of the main body (mechanical portion), which contains only the main disc, piston rings and a preload spring that is non-adjustable, at the Mandatory Appendix I specified frequency will not result in a significant increase in the level of safety. Testing of the mechanical portion of all 14 SRVs to provide verification of blowdown and flow rates is conducted every 5 years when the valves are tested as a complete assembly per Technical Specification 4.4.2.3.

Proposed Alternative Testing:

The Hope Creek Main Steam SRVs will be tested in accordance with Technical Specifications 4.4.2.2 and 4.4.2.3. One-half (1/2) of the SRVs pilot stages will be removed and set pressure tested or replaced with previously tested assemblies every 18 months. in the event the “asfound” setpoint fails the setpoint testing, sample expansion of the other pilot valves will be conducted in accordance with paragraph I- 1320(c) of Mandatory Appendix I. All 14 main stages (with the entire assembly) will be removed, tested and reinstalled or replaced every 5 years. Hope Creek anticipates that this maintenance activity will occur in a single outage every 5 years.

Duration of Proposed Alternative:

The proposed alternative identified in this 10CFR50.55a Request shall be utilized during the Third Ten Year IST Interval.

Precedents:

The proposed alternative was previously authorized pursuant to 10CFR50.55a(a)(3)(i) for Interval 2 per NRC SER dated March 18, 1999 (TAC MA0425 and MA1430)

The proposed alternative was previously approved for Interval 1 per NRC SER dated January 27, 1994. (TAC No. M86733).

References:

Hope Creek UFSAR 5.2.2.4.2.1.3

General Electric Service Information Letter 196 (SIL 196)

NRC Information Notices 82-41, 83-39, 83-82, 86-12 and 88-30

Hope Creek Technical Specification SRs 4.4.2.2 and 4.4.2.3

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Proposed Alternative In Accordance with 10CFR50.55a(a)(3)(i)

--Alternative Provides Acceptable Level of Quality and Safety--

System:

Main Steam and Automatic Depressurization

ASME Code Components Affected:

1SNPSV-F013A, B, C, D, E
1ABPSV-F013F, G, H, J, K, L, M, P, R

Component/System Function:

Depressurization of the Reactor Coolant System (RCS) to allow for low pressure coolant injection.

Applicable Code Edition and Addenda:

ASME OM Code 2001 through 2003 Addenda

OM Code Category:

C

Applicable Code Requirement:

Mandatory Appendix I, Subparagraph I-3410(d). Each valve that has been maintained or refurbished in place, removed for maintenance and testing, or both, and reinstalled, shall be remotely actuated at reduced system pressure to verify open and close capability of the valve prior to resumption of electric power generation. Set pressure testing verification is not required.

Reason for Request:

This 10 CFR 50.55a request requests authorization of the proposed alternative to the requirements to actuate ADS/SRV valves after reinstallation to verify their open and close capability as stated in Mandatory Appendix I, Subparagraph I- 3410(d). This 10 CFR 50.55a request contends that in-situ testing imposes unnecessary challenges on the subject valves and has been linked to SRV degradation (e.g., pilot and/or valve leakage). Pilot degradation, while not a concern with respect to the ADS safety function, could, if severe enough, lead to SRV setpoint drift, spurious SRV actuation and/or failure to properly reseat. If any of these valves fail to re-close after testing, the plant would be placed in a LOCA condition requiring plant shutdown in accordance with Technical Specifications (TS) 3.4.2.1.b.

In addition, an earlier study (i.e., BWR Owner's Group Evaluation of NUREG-0737, Item II.K.3.16, Reduction of Challenges and Failures of Relief Valves) recommends that the number of ADS openings be reduced as much as possible. This evaluation further contends that adequate demonstration of ADS/SRV operability is still provided through the remaining existing tests and
inspections. Overall, this change should reduce SRV leakage and improve ADS/SRV reliability by reducing the potential for spurious SRV actuation.

Adequacy of Testing

HCGS believes that the in-situ testing of the ADS/SRVs is not necessary because the remaining ADS surveillance tests and SRV inspections provide the necessary assurance of ADS valve operability. These tests and inspections of the ADS/SRVs are described below.

A. ADS Logic System Functional Test
This test, performed during each refueling cycle, verifies the ECCS logic functions to actuate the ADS on Low Reactor Water Level – Level 1, and High Drywell Pressure. Verification of ADS from the start of the automatic initiation logic to, but not including, instrument gas/accumulator solenoids is demonstrated. It is important to note that the TS Bases for this functional test does not require actual stroking of the ADS/SRV. See TS 4.5.1.d.2.a.

B. Steam Relief Valve Cycling Testing
This test, performed each refueling outage, verifies proper operation of the ADS solenoid valves, air operators, and pilot assembly in accordance with TS 4.0.5.

C. ADS Accumulator Leak Test
This test, performed during each refueling cycle and each time maintenance is performed on the ADS valve, verifies that ADS instrument gas/accumulator leakage is low enough to ensure that there will be sufficient pneumatic pressure for design basis ADS/SRV operation. The ADS design basis calls for two ADS/SRV actuations at 70% of the maximum drywell pressure (62 psig) to depressurize the reactor pressure vessel down to the Residual Heat Removal (RHR) Shutdown Cooling operating pressure range. See UFSAR Section 5.2.2.4.1.

D. SRV Setpoint/Leakage Testing
These functional tests and inspections are performed on at least 50% of the SRV pilot stage assemblies during each refueling outage. These tests verify the pilot valve and setpoint spring assembly open and close at the required set-pressure, and that leakage is within strict vendor specified criteria. See TS 4.4.2.2 and UFSAR Section 5.5.5.10.

E. Main Disc Exercise Test
SRV main disc actuation and leakage is also verified when the entire valve assembly is shipped to the certified test facility. In addition, the testing verifies, at least once every five years, that all the SRV main discs can freely open as specified in TS Surveillance Requirement 4.4.2.3.

Proposed Alternative and Basis for Use:

These combined tests described above verify the required ADS critical component performance requirements. This 10 CFR 50.55a request will only change the requirement to verify that the opening of the SRV pilot disc results in opening of the main disc. However, this ADS/SRV subcomponent function is considered to be extremely reliable based upon the simplicity of this aspect of the SRV design and is supported by Hope Creek and industry ADS/SRV valve performance history.

Proposed Alternative Testing:

Perform ADS/SRV exercise testing utilizing the testing methods and at the frequencies specified in items A through E above.

Duration of Proposed Alternative:

The proposed alternative identified in this 10CFR50.55a Request shall be utilized during the Third Ten Year IST Interval.

Precedents:

Hope Creek

The proposed alternative was previously authorized pursuant to 10CFR50.55a(a)(3)(i) for Interval 2 per NRC SER dated February 18, 1999 (TAC MA4542).Associated TS changes were approved per NRC SER dated February 10, 1999 (TAC No. MA2259)

References:

Hope Creek UFSAR Section 5.2.2.4.1
Hope Creek Technical Specification SRs 4.4.2.2; 4.4.2.3; and 4.5.1.d.2.a

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Proposed Alternative In Accordance with 10CFR50.55a(a)(3)(i)

--Alternative Provides Acceptable Level of Quality and Safety--

System:

Safety Auxiliaries Cooling Water
Auxiliary Buiding chilled Water

ASME Code Components Affected:

Power-Operated Valves that are used for System Control and have a Safety Function:

1EGPCV-2393A
1EGPCV-2393B
1EGPCV-2499A
1EGPCV-2499B
1GJTV-9634A
1GJTV-9634B
1GJTV-9637A
1GJTV-9637B
1GJTV-9667A
1GJTV-9667B
1GJTV-9762A
1GJTV-9762B
1GJTV-9768A
1GJTV-9768B

Component/System Function:

System control with an associated failsafe position feature.

Applicable Code Edition and Addenda:

ASME OM Code 2001 through 2003 Addenda

OM Code Category:

B

Applicable Code Requirement:

ISTA-3130, "Application of Codes Cases", ISTA-3130(b) states, Code Cases shall be applicable to the edition and addenda specified in the test plan.

1. OM Subsection ISTC, Paragraph ISTC-5131, Pneumatically Operated Valves Stroke Testing

2. OM Subsection ISTC, Paragraph ISTC-5132, Stroke Test Acceptance Criteria

3. OM Subsection ISTC, Paragraph ISTC-5133(b), Stroke Test Corrective Action

Reason for Request:

NUREG-1482, Revision 1, Section 4.2.9 states in part; Control valves that perform a safety or fail-safe function must be tested in accordance with the Code provisions for IST to monitor the valves for degrading conditions.

The NRC staff recommends that licensees should apply ASME Code Case OMN-8, as accepted in RG 1.192, if concerns exist regarding IST of control valves with fail-safe functions.

Code Case OMN-8 states that stroke-time testing need not be performed for POVs when the only safety-related function of those valves is to fail safe. Any abnormality or erratic action experienced during valve exercising should be recorded in the test record and an evaluation should be performed.

RG 1.192 allows licensees with an applicable Code of record to implement ASME Code Case OMN-8 in lieu of the Code provisions for Valve Stroke Testing, Stroke Time Acceptance Criteria and Stroke Test Corrective Action, without the need to submit a relief request.

Licensees with a Code of record that is not applicable to the acceptance of this Code Case may submit a request for relief to apply the Code Case consistent with the indicated conditions to provide an acceptable level of quality and safety.

The Code of record for HCGS Third 10-Year IST Interval is OM Code-2001 Edition through 2003 Addenda. The latest applicable Code for OMN-8, as stated in the Code Case, is OM Code-1995.

Proposed Alternative and Basis for Use:

Pursuant to the guidelines provided in NUREG-1482, Revision 1, Section 4.2.9, HCGS proposes to implement Code Case OMN-8 in lieu of the Code provisions for Valve Stroke Testing, Stroke Time Acceptance Criteria and Stroke Test Corrective Action specified in ISTC-5130. Code Case OMN-8 has been determined by the NRC to provide an acceptable level of quality and safety as documented in RG 1.192.

ASME Code Case OMN-8 states that stroke-time testing need not be performed for these valves when the only safety-related function of the valves is to fail safe. OM Code Committee is in the process of revising the applicability of this Code Case to the later approved OM Code editions and addenda.

Proposed Alternative Testing:

Using the provisions of this 10 CFR 50.55a request as an alternative to the AOV stroke-time testing requirements of ISTC-5130 provides an acceptable level of quality for the determination of valve operational readiness. Code Case OMN-8 should be considered acceptable for use with OM Code-2001 through 2003 Addenda as the Code of record. Therefore, pursuant to 10CFR50.55a(a)(3)(i), HCGS requests authorization of the proposed alternative to the specific ISTC Code requirements identified in this 10CFR 50.55a request.

These valves shall be exercised in accordance with the Subsection ISTC requirements and the failsafe position on a loss of power shall be verified. Any abnormality or erratic action experienced during valve exercising shall be evaluated per the Corrective Action Program.

Duration of Proposed Alternative:

The proposed alternative identified in this 10CFR50.55a Request shall be utilized during the Third Ten Year IST Interval.

Precedents:

None for HCGS.

References:

NUREG-1482, Revision 1, Section 4.2.9, “Control Valves with a Safety Function.”

Regulatory Guide 1.192, “Operation and Maintenance Code Case Acceptability, ASME OM Code”, Table 1, “Acceptable OM Code Cases”

Code Case OMN-8, “Alternative Rules for Preservice and Inservice Testing of Power-Operated Valves that are used for System Control and have a Safety Function per OM-10”