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U. S. Nuclear Regulatory Commission  
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BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62  
PROGRAM SCOPE ISSUES AND RELIEF REQUESTS ASSOCIATED WITH THIRD  
10-YEAR INTERVAL INSERVICE TESTING PROGRAM  
(NRC TAC NOS. MA1115 AND MA1116)

Gentlemen:

By letter dated February 9, 1999, the NRC provided their review of Carolina Power & Light (CP&L) Company's requests for relief associated with the third 10-year Inservice Testing (IST) Program for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. In the Safety Evaluation accompanying the letter, the NRC requested that CP&L address a number of program scope issues identified in Appendix B of the Technical Evaluation Report (TER) prepared by Idaho National Engineering and Environmental Laboratory. The NRC requested that CP&L provide a response within one year from the date of the Safety Evaluation (i.e., by February 9, 2000), or by the end of the next refueling outage, whichever is later. CP&L's responses to the NRC Safety Evaluation comments are provided in Enclosure 1.

TER Appendix A, Item 2 stated that alternate testing approved by the Safety Evaluation transmitted in the NRC letter dated January 4, 1990, for the BSEP second 10-year IST Program should be used for Automatic Depressurization System valves 1(2)-B21-F013A through H, J, K, and L until a revised relief request is processed. Enclosure 2 provides an update to Valve Relief Request VRR-02 to address this issue.

The TER identified several issues relating to the safety function of valves included in the IST Program. In addition to the responses provided in Enclosure 1, a copy of the updated printout for the IST Program scope is provided in Enclosure 3.

Lastly, the IST Program submitted by CP&L's letter dated February 25, 1998, included Valve Relief Request VRR-09, which requested relief from the quarterly test frequency requirements of American Society of Mechanical Engineers (ASME) Operations and Maintenance (OM) Standard Part 10, for the residual heat removal-to-spent fuel pool valves. The NRC denied Valve Relief Request VRR-09, due to a lack of radiation dose rate data and discussion of the

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relative safety implications of these valves in comparison to others, to support CP&L's argument of undue burden. As stated in Section 2.4.5 of NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants," the ASME Boiler and Pressure Vessel Code allows for a refueling outage frequency if the test is impractical to conduct while in operation and during cold shutdown. NUREG-1482 cites personnel radiation exposure as an example of an impractical condition. CP&L has reassessed this item, determined that the item satisfies the NUREG-1482 criterion for a Refueling Justification, and prepared a Refueling Justification to support a test frequency change for these valves. A copy of the Refueling Justification, designated as RFJ-23, is provided for the NRC's information in Enclosure 4.

Please refer any questions regarding this submittal to Mr. Steven F. Tabor, Supervisor - Licensing, at (910) 457-2178.

Sincerely,



Warren J. Dorman  
Manager - Regulatory Affairs  
Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

1. Response to NRC Safety Evaluation Comments
2. Relief Request VRR-02
3. Revised Inservice Testing Program Scope
4. Refueling Justification RFJ-23

cc (with enclosures):

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## ENCLOSURE 1

### BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2 DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62 PROGRAM SCOPE ISSUES AND RELIEF REQUESTS ASSOCIATED WITH THIRD 10-YEAR INTERVAL INSERVICE TESTING PROGRAM (NRC TAC NOS. MA1115 AND MA1116)

#### Response to NRC Safety Evaluation Comments

By letter dated February 9, 1999, the NRC provided their review of Carolina Power & Light (CP&L) Company's requests for relief associated with the third 10-year Inservice Testing (IST) Program for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. In the Safety Evaluation accompanying the letter, the NRC requested that CP&L address a number of program scope issues identified in Appendix B of the Technical Evaluation Report (TER) prepared by Idaho National Engineering and Environmental Laboratory. The NRC requested that CP&L provide a response within one year from the date of the Safety Evaluation (i.e., by February 9, 2000), or by the end of the next refueling outage, whichever is later.

The following summarizes each of the NRC issues identified in Appendix B of the TER and provides CP&L's response to the comment.

Issue 1: The TER states that Valve Relief Request VRR-01 should be authorized. However, the TER stipulates that measurement of the force or torque required to initiate movement of the subject valves must be performed at least once every other refueling outage. (Reference: TER Appendix A, Item 1)

#### Response:

Valve Relief Request VRR-01 refers to the 1(2)-E11-F078 valves which are check valves on the Residual Heat Removal (RHR) Service Water system injection lines into RHR. Injection of service water into the reactor vessel is outside of any design basis event for which BSEP is analyzed. This option could be utilized under severe accident management circumstances, but only after multiple system failures. As such, valves 1(2)-E11-F078 are outside the IST Program scope with respect to operation in the open direction. Similarly, the safety function of valves 1(2)-E11-F073 and 1(2)-E11-F075 is to close and, as such, will be removed from IST Program scope for opening. These valves are normally closed and in series, providing isolation between the RHR and the RHR Service Water systems. No leakage rates are specified for these valves. System integrity will be evaluated by ensuring that normal flow rates and pressures are attained during routine testing of the RHR and RHR Service Water systems. This is in agreement with the response to Question Group 21, as contained in the NRC letter dated October 25, 1989, "Minutes of the Public Meetings on Generic Letter 89-04."

**Issue 2:** The TER states that Valve Relief Request VRR-02 should not been granted as requested. Instead, the TER states that until a revised relief request has been submitted and approved by the NRC, the alternate testing approved by the Safety Evaluation transmitted in the NRC letter dated January 4, 1990, for the BSEP second 10-year IST Program should be used for Automatic Depressurization System valves 1(2)-B21-F013A through H, J, K, and L. (Reference: TER Appendix A, Item 2)

**Response:**

A revised relief request for these valves is provided in Enclosure 2.

**Issue 3:** The TER states that Valve Relief Request VRR-03 should be granted provided ". . . the licensee implements reasonable objective acceptance criteria to help to ensure that significant degradation of these valves is detected and corrective action is taken when needed." (Reference: TER Appendix A, Item 3)

**Response:**

By letter dated October 13, 1999 (Serial: BSEP 99-0161), CP&L withdrew Relief Request VRR-03 on the basis that the current mode of testing satisfies the requirements of American Society of Mechanical Engineers (ASME) Operation and Maintenance (OM) Standard Part 10 (i.e., OM-10).

**Issue 4:** TER Appendix A, Item 7 states that CP&L ". . . has not clearly identified in their IST program which valves are included in each sampling group or how frequently a valve from each group is being disassembled and inspected." The TER further states: "The reviewers have a concern that information that could affect the testing frequency of safety-related valves is only documented in an engineering procedure that does not receive the same level of control or regulatory reviews and approval as the IST program." (Reference: TER Appendix A, Item 7)

**Response:**

The tables in Attachments 1 and 2 of plant procedure 0ENP-16.7, "Administrative Control of the Check Valve Disassembly Program," clearly describe the grouping of check valves in the disassembly program. Attachments 3 and 4 of plant procedure 0ENP-16.7 also provide management information on the scheduling of valve disassembly. The actual scheduling of the valve inspections is handled through BSEP's work control process. Information for tracking inspections for these valves has been placed in the computer system used for the work control process (i.e., the Automated Maintenance Management System, known as AMMS). On this basis, adequate controls exist for information pertaining to the testing frequency of safety-related valves.

The following plant procedures associated with inservice testing constitute the written IST Program:

- OENP-16.1, "IST Pump and Valve Data"
- OENP-16.5, "Administration of Safety/Relief Valve Testing Program"
- OENP-16.7, "Administrative Control of the Check Valve Disassembly Program"
- OENP-17, "Pump and Valve Inservice Testing (IST)"

Changes to these plant procedures require technical reviews and safety reviews in accordance with 10 CFR 50.59. These controls meet or exceed the controls necessary for a separate IST Program document. Therefore, no additional action is required.

**Issue 5:** The TER states: "Para. 5.1.3 of Engineering Procedure OENP-16.7 does not conform to Part 10; therefore, the licensee should comply with the code and GL 89-04 when performing check valve disassembly and inspections." The TER quotes paragraph 5.1.3 of plant procedure OENP-16.7 as follows: "Valves that are disassembled to verify closure capabilities are not required to a partial flow performed after re-assembly." (Reference: TER Appendix A, Item 7a)

**Response:**

The statement cited above has been eliminated from plant procedure OENP-16.7. As such, partial flow testing is now performed on valves that are disassembled to verify close capability.

**Issue 6:** The TER states that valve groups SDG-10/P and SDG-20/P list five valves in each group. The TER further states that: ". . . this group expansion is not addressed or justified in the IST program as required. To bring the program into compliance with GL 89-04 and the published staff position, the licensee should reduce the number of valves in valve groups SDG-10/P and SDG-20/P or provide the justification in the IST program for staff review." (Reference: TER Appendix A, Item 7b)

**Response:**

These valves are discharge check valves for the conventional and nuclear service water pumps. They are identical valves, and are subject to identical conditions. The program as described in plant procedure OENP-16.7, Revision 12, paragraph 5.3.3, states that for valve groups that contain more than one valve, each valve in the group shall be inspected and exercised at least once every six years. Failure of one valve in inspection will result in an inspection of the other valves, which is more conservative than dividing the valves into two groups. By proceduralizing the frequency of these inspections as once every six years for each valve, the guidance of Generic Letter 89-04 is met and timely identification of any generic issues with these valves is ensured. Additionally, these valves are routinely disassembled each refueling outage as part of the Service Water system inspection program.

**Issue 7:** The TER states that plant procedure OENP-16.7, Revision 10, paragraph 5.3.3, should be revised to address the extreme hardship and IST Program documentation issues associated with the disassembly and inspection of valve groups SDG-10/P and SDG-20/P. (Reference: TER Appendix A, Item 7b)

**Response:**

CP&L has revised plant procedure OENP-16.7, paragraph 5.3.6, to address the extreme hardship and IST Program documentation issues associated with disassembly and inspection of valve groups SDG-10/P and SDG-20/P. In cases of extreme hardship, a frequency longer than once every six years may be established provided an evaluation demonstrates that the proposed frequency will not affect plant safety and the applicable information listed below is provided and supported by plant data:

- Each valve in the valve grouping has been disassembled and inspected.
- The valve group's failure rate is less than 25 percent.
- The inspection results document the condition of each valve and the valve's capability to be fully stroked.
- A review of plant and industry experience is performed regarding the same type of valve used in similar service to ensure the proposed frequency is justified.
- A review of the installation of each valve is performed for problematic location in accordance with the Electric Power Research Institute's *Application Guidelines for Check Valves in Nuclear Power Plants*.

**Issue 8:** The TER states that valve groups SDG-1Q and SDG-2Q include valves that do not appear to meet the grouping criteria in Generic Letter 89-04 because the valves are subject to conditions that will result in the valves degrading differently. The TER states that CP&L should change the valve groups or provide additional justification in the IST Program to support the valve groups. (Reference: TER Appendix A, Item 7c)

**Response:**

Plant procedure OENP-16.7 has been revised to divide the valve groups into SDG-1QA, SDG-1QB, SDG-2QA, and SDG-2QB to differentiate the conditions to which the valves are subjected.

**Issue 9:** The TER states that plant procedure OENP-16.7 should not be used as the sole mechanism for identifying check valve sample groups, test intervals, or group sizes that deviate from the criteria specified in Generic Letter 89-04, Position 2. The TER also states that any deviations from the grouping and frequency criteria should be specifically addressed and justified in the IST Program. (Reference: TER Appendix A, Item 7d)

Response:

Plant procedure OENP-16.7 constitutes one element of BSEP's IST Program documents. Since this procedure is a part of the Plant Operating Manual (POM), changes to the content of the procedure require review in accordance with the 10 CFR 50.59 process. This provides for a controlled source of information on how BSEP implements check valve disassembly. Scheduling of the specific tasks is done in accordance with the work control process, which is described in procedure ADM-NGGC-0104, "Work Management Process." The schedule in procedure OENP-16.7 serves as a management tool for the IST Program Manager; therefore, additional controls are not necessary.

Issue 10: The TER states that there is an error on Drawing D-02523, Sheet 1, Unit 2 involving the direction of check valve 2-E41-F005. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 1)

Response:

The depicted direction of flow was incorrect. The drawing has been corrected.

Issue 11: The TER states that valve E41-F004 performs a safety function in the open position. In contrast, the TER notes that the downstream check valve, E41-F019, is indicated in the IST Program valve table to perform a safety function in the open and closed position. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 2)

Response:

High Pressure Coolant Injection (HPCI) system pump suction valve E41-F004 from the condensate storage tank is normally open. This DC powered, motor-operated valve receives an open signal upon HPCI system initiation. However, because this valve is open during normal operation with the HPCI system in the standby readiness mode, it is not required to operate and reposition for automatic HPCI system initiation.

The E41-F004 valve has an active safety function in the closed position to isolate the HPCI system pump suction line from the condensate storage tank. This valve closes automatically on a condensate storage tank low level signal or a suppression pool high level signal after the pump suction valves from the suppression pool are fully open. This valve is a Class 2 to Non-Code Class boundary isolation valve. The portions of the condensate storage tank supply line located outside the Reactor Building are not Seismic Class I. Closure capability is required to prevent diversion of flow and to maintain HPCI system integrity after a design basis event.

HPCI pump suction check valve E41-F019 from the condensate storage tank is normally closed. This valve must reposition to the open position for the HPCI system to perform its design safety function. Therefore, this valve performs a safety function in the open position.



**Issue 12:** The TER states that there is an apparent discrepancy between the IST Program valve tables and position V-07. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 3)

**Response:**

The IST Program valve tables have been corrected to reflect that valve 2-E41-F022 be cycled at a cold shutdown frequency versus a quarterly frequency.

**Issue 13:** The TER discusses definitions for the "SP" special test frequency and the "DA" disassembly and inspection frequency. The TER indicates that the "SP" definition is "Special test interval, the frequency will be specified in the applicable relief request or procedure." The TER also indicates that there are many cases where the "SP" frequency is assigned without relief requests or procedures being identified in the IST Program. The TER states that OM-10 specifies the allowable frequencies for testing valves, and that the only frequency allowed by OM-10 for disassembly and inspection is each refueling outage. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 4)

**Response:**

The check valves in the IST Program that are subject to disassembly and inspection are covered in plant procedure 0ENP-16.7. Grouping has been applied to these valves in accordance with Generic Letter 89-04, Position 2, which can result in not having to disassemble and inspect these valves each refueling outage. The groupings and frequency described in plant procedure 0ENP-16.7 are in accordance with OM-10, as modified by NRC Generic Letter 89-04, and are appropriate for the check valves in the IST Program.

**Issue 14:** The TER states that valves 1(2)-E41-F040 perform a safety function in both the open and closed positions. The table indicates tests for closed verification, and disassembly/visual inspection (i.e., in lieu of the open exercise). Both tests relate to Refueling Justification RFJ-18. The TER states that Refueling Justification RFJ-18 does not address an open test for the valves; therefore, the reference to Refueling Justification RFJ-18 is incorrect for the "DA" or open capability verification. The TER also states that the valve table frequency column should list an "R" frequency instead of a "SP" frequency for the "DA" test. The TER concludes that the IST Program should be reviewed to ensure that frequencies are in accordance with OM-10, except where relief is requested. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 5)

**Response:**

The 1(2) E41-F040 valves are leak tested in the closed position each refueling outage. Based on their grouping, they are disassembled in lieu of exercising in the open direction every other refueling outage in accordance with plant procedure 0ENP-16.7. The reference to Refueling

Justification RFJ-18 in the IST Program table for valve disassembly is not appropriate and has been removed.

A discrepancy does not exist for the valve frequencies described in the TER item. The term "SP" refers to those items performed at special intervals, such as check valve disassembly. In the case of check valve disassembly, grouping is used so that valves are not disassembled on a refueling basis, but rather on a frequency not to exceed six years. "SP" is the best description for those activities.

**Issue 15:** The TER states that valves 1(2)-E41-F057 on valve table pages 86 of 128 and 88 of 147, respectively, perform a safety function in the open position. The TER further states that valve tables indicate that a "CV-P" or check valve partial open test will be performed quarterly and a "DA" will be performed at "SP"; however, there is no reference under the "Relief Requests" column to a deferred test justification or relief request. The TER states that CP&L should ensure that the test frequency for the "DA" test complies with the requirements of OM-10 or that CP&L should submit a relief request justifying an extended frequency beyond those authorized by the ASME Code. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 6)

**Response:**

Valves 1(2)-E41-F057 are in groups SDG-1QB and SDG-2QB of plant procedure 0ENP-16.7 and are on a frequency specified by that procedure. The groupings and frequency described in plant procedure 0ENP-16.7 are in accordance with OM-10, as modified by NRC Generic Letter 89-04, Position 2. The "SP" frequency in the valve table is correct for these valves.

**Issue 16:** The TER states that there is an apparent test frequency discrepancy between the IST Program valve tables and relief request VRR-07 with respect to rupture disk devices. The TER states that devices 1(2)-E41-PSE-D003 and -D004 on valve table pages 87 and 88 of 128 and 89 and 90 of 147, respectively, perform a safety function in the open position. The TER also indicates that the valve tables indicate these devices will receive a "DA" test every five years and refers to VRR-07. The TER states that this discrepancy should be corrected. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 7)

**Response:**

Relief Request VRR-07 was denied by the NRC. The rupture discs referenced in relief request VRR-07 have been added to the IST Program scope. The rupture discs installed at BSEP were originally designed for the life of the plant. Inspection of one of the discs in the past indicated no degradation. The valve tables have been updated to reflect a five year replacement frequency. When further information to document this performance is developed, CP&L may resubmit Relief Request VRR-07.

**Issue 17:** The TER states that there is an apparent discrepancy between the IST Program valve tables and the plant piping and instrument diagrams (P&IDs) regarding the safety function position for valves 1(2)-E41-SV1218D, -SV1219D, -SV1220D, and -SV1221D on valve table pages 88 of 128 and 90 of 147. The TER states that these valves are indicated in the valve tables to perform a safety function in the closed position. The TER states that plant P&IDs D-25023, Sheet 2 and D-2523, Sheet 2, show these valves at coordinates B-7 and indicate their fail-safe position as open. The TER states that CP&L should review the IST Program valve tables and plant P&IDs to determine if changes are needed. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 8)

**Response:**

The fail-safe position for valves 1(2)-E41-SV1218D, -SV1219D, -SV1220D, and -SV1221D submitted in the IST Program valve tables was incorrect. The fail-safe position for the valves is the open position. The IST Program valve tables have been corrected.

**Issue 18:** The TER states that CP&L should ensure that the test frequency for the "DA" test of valves 1(2)-E41-F159 complies with the requirements of OM-10 or provide a relief request justifying an extended frequency beyond those authorized by the ASME Code. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 9)

**Response:**

OM-10, paragraph 4.3.2.4.b allows for manual exercising of valves if supplied with a mechanical exerciser. Breakaway force for the valve may not exceed 50 percent of the reference value established by the owner. The TER indicates that BSEP would be applying an acceptance criterion of 200 percent for manual exercising. CP&L does not intend to apply an acceptance criterion of 200 percent for manual exercising.

Plant procedure OPT-20.12, Revision 5, "E41-V159 Operability Test," applies an acceptance criterion of no more than a 50 percent increase in breakaway torque. Past performance of this periodic test has resulted in torque values ranging from 60 to 105 ft-lbs. Reference torque values have been established in plant procedure OPT-20.12. Considering that the available torque that will be applied to open the valve on HPCI system initiation is approximately 30,000 ft-lbs, this acceptance criterion is reasonable for detecting degradation that could prevent the valve from performing its required function.

Valves 1(2)-E41-V159 will be tested in accordance with OM-10, paragraph 4.3.2.4.b on a refueling basis as documented in Refueling Justification RFJ-20. The IST Program valve tables will be amended to remove disassembly as a test; disassembly will only be performed as corrective action if the valve displays degradation.

**Issue 19:** The TER states that CP&L should review the safety function of valves 1(2)-E41-V9 and determine whether these valves should be included in the IST Program and tested to meet ASME Code requirements. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 10)

**Response:**

1(2)-E41-V9 have been in the IST Program and have been tested in accordance with plant procedure OPT-9.2, "HPCI System Operability Test." The IST Program scope printout submitted to the NRC was incorrect. A copy of the revised IST Program scope printout is provided in Enclosure 3.

**Issue 20:** The TER states that the 1(2)-E41-F052 valves appear to be within the Code Class 2 boundary and perform a safety function in the open and/or closed position. The TER indicates that CP&L should review and determine whether valve 1(2)-E41-F052 should be included in the IST Program and tested to meet ASME Code requirements. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 11)

**Response:**

The barometric condenser condensate pump discharge check valves 1(2)-E41-F052 have an active safety function in the closed direction as a Code Class 2 to Non-Code Class boundary isolation valve. The barometric condenser prevents leakage of radioactive steam from the turbine shaft seals during HPCI system turbine operation. However, these check valves have no active safety function in the open position because failure of the barometric condenser to function will not prevent the HPCI system from performing its safety function (i.e., to provide water to the reactor pressure vessel). These valves are tested in the closed position as part of OPT-9.2.

**Issue 21:** The TER states that CP&L should review and determine whether valves 1(2)-E41-V79, 1(2)-E41-F054, and 1(2)-E41-F029 perform a safety function and should be included in the IST Program. The TER indicates that: "unless these valves function correctly, the drain pot may not remove adequate moisture from the steam line." (Reference: TER Appendix B, High Pressure Coolant Injection, Item 12)

**Response:**

The 1(2)-E41-V79 valves should be in the IST Program scope. The valves have the function of passing two-phase flow from the steam line drain pot when the HPCI system is in standby. If the valves were to stick closed, the steam lines could fill with water. There is no safety function for the valves in the closed direction. The steam line drain pot has a high level alarm which would alert operators of a potential failure of valves 1(2)-E41-V79. The function of these valves is continuously monitored in the Control Room and formally verified during the quarterly HPCI system operability test. This test verifies that the high level annunciator for the HPCI turbine

inlet steam line drain pot is not alarming. This indicates that the check valves are satisfactorily passing required flow. This meets the OM-10, Item 4.3.2.4 requirement for check valve obturator movement and exercise. Receipt of the high level alarm will provide an indicator of potential degradation of these check valves. CP&L plans to enhance the HPCI system operability test procedure to more clearly document the testing of the V79 valves, and the 1(2)-E41-V79 valves will be added to the IST Program scope.

The 1(2)-E41-F054 valves have a convenience function in permitting a rapid warmup of the HPCI system piping following isolation for maintenance. Under design basis event conditions, the 1(2)-E41-F054 valves have no safety function and should not be included in the IST Program scope.

The 1(2)-E41-F029 valves provide a redundant isolation to the 1(2)-E41-F028 valves, which serve as the boundary between Class 2 piping and Non-Class piping. The 1(2)-E41-F029 valves are normally open and would close upon system initiation. Failure of this line to isolate would not prevent the HPCI system from functioning. Therefore, the 1(2)-E41-F029 valves do not need to be included in the IST Program scope based on Code classification and function.

**Issue 22:** The TER states that Code Class 1, 2, and 3 manual valves, in any plant system, that perform an active safety function should be included in the IST Program and tested in accordance with the Code requirements. (Reference: TER Appendix B, High Pressure Coolant Injection, Item 13)

**Response:**

The following systems have been reviewed:

- High Pressure Coolant Injection system
- Reactor Core Isolation Cooling (RCIC) system
- Service Water system
- Fuel Pool Cooling system
- Standby Liquid Control system
- Reactor Water Cleanup system
- Nuclear Steam Supply System
- Non-interruptible Instrument Air (RNA)
- Core Spray system
- Residual Heat Removal system
- Post-Accident Sampling System
- Traversing Incore Probe system
- Reactor Building Ventilation system
- Control Building Ventilation system

No manual valves were identified as having an active safety function that are not currently in the IST Program.

**Issue 23:** The TER states that valves 1(2)-SW-V123 and -V124 appear to be equipped with remote position indication, but that remote position indication testing may not be performed in accordance with ASME Code requirements. The TER further states that this concern applies to all valves in the IST Program with remote position indication and that CP&L should ensure that these valves are receiving position verification in accordance with the ASME Code. (Reference: TER Appendix B, Service Water System, Item 1)

**Response:**

The specific valves referenced in the TER, 1(2)-SW-V123 and -V124, do not have remote position indication. The periodic test procedures that check valve position indications have the column for remote position marked "N/A" for those valves that do not receive remote position indication checks. Placing "N/A" in this part of the data sheet would constitute a change in intent of the procedure, thus requiring technical reviews, evaluation in accordance with 10 CFR 50.59, and a concurrence signature by the IST Engineer. Therefore, adequate administrative controls exist to ensure valves are being appropriately checked for remote position indication.

**Issue 24:** The TER states that there is an apparent test frequency discrepancy between the IST Program valve tables and Valve Position V-12 for valves 1(2)-SW-V144 and -V148. (Reference: TER Appendix B, Service Water System, Item 2)

**Response:**

Valves 1(2)-SW-V144 and -V148 are covered in Valve Position V-12 (i.e., Program Remark V-12), which states that the valves will be disassembled in accordance with the check valve disassembly program. The valves are in the IST Program scope delineated in plant procedure 0ENP-16.7, and the valve tables refer to the check valve disassembly on a refueling basis. The valve tables have been updated to reflect "SP" periodicity.

**Issue 25:** The TER states that there is an apparent discrepancy between the IST Program valve tables and Valve Position V-06 for valves 1(2)-SW-V21, -V22, -V23, -V24, and -V25. The TER also states that Generic Letter 89-04 only allows groupings of up to four similar valves. The TER concludes that the frequency for these valves should be "SP" in the IST Program valve tables. (Reference: TER Appendix B, Service Water System, Item 3)

**Response:**

Valves 1(2)-SW-V21, -V22, -V23, -V24, and -V25 are covered in Position V-06 (i.e., Program Remark V-06), which states that the valves will be disassembled in accordance with the check valve disassembly program. The valves are in the scope as delineated in plant procedure 0ENP-16.7. The valve tables refer to both the check valve disassembly and to a partial stroke exercise conducted in accordance with plant procedures 1(2)PT-24.1.1, "Service Water

Pump and Discharge Valve Operability Test." Therefore, the IST Program valve tables have been updated to reflect "SP" frequency.

These valves are discharge check valves for the conventional and nuclear service water pumps. They are identical valves and subject to identical conditions. The program as described in OENP-16.7, Revision 12, paragraph 5.3.3, states that: "for valve groups that contain more than one valve, each valve in the group shall be inspected and exercised at least once every 6 years." Failure of one valve in inspection will trigger an inspection of the other valves, which is more conservative than breaking up the valves into two groups. By requiring the inspections once every six years, the guidance of Generic Letter 89-04 is met and prompt identification of any generic issues with these valves is ensured.

**Issue 26:** The TER states that there is an apparent discrepancy between the valve tables and Valve Position V-13 for valves 1(2)-SW-V683, -V684, -V685, and -V686. The TER states that the frequency for these valves should be "SP" in the IST Program valve tables. (Reference: TER Appendix B, Service Water System, Item 4)

**Response:**

Valve Position V-13 (i.e., Program Remark V-13) states that the valves will be disassembled and inspected, on a sampling basis, in accordance with the guidance in Generic Letter 89-04, Position 2. The valves are in the IST Program scope delineated in plant procedure OENP-16.7. The IST Program valve tables refer to both the check valve disassembly and to a partial stroke exercise conducted by plant procedures 1(2)MST-SW12Q, "Service Water Diesel Generator Cooling Water Supply Low Pressure Instrument Calibration and Functional Test." Therefore, the IST Program valve tables have been updated to reflect "SP" periodicity.

**Issue 27:** The TER states that if a calculated inlet pressure is used to determine differential pressure for the conventional and nuclear header service water pumps, 1(2)-SW-C-P-1A, -1B, and -1C and 1(2)-SW-N-P-1A and -1B, the method of determining the inlet pressure should meet quality assurance requirements and included in the implementing procedures discussed in NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants," Section 5.5.3. The TER states that similar issues may exist with respect to other IST test parameters (e.g., flow rate or vibration) that are measured or determined indirectly and subjected to calculation or reduction. (Reference: TER Appendix B, Service Water System, Item 5)

**Response:**

NUREG-1482, Section 5.5.3, provides an NRC recommendation on the use of tank or bay level instruments to calculate differential pressure. The NUREG indicates that a calculational method may be used, without obtaining relief, provided the calculational method meets quality assurance requirements and is included in a procedure.

At BSEP, the periodic tests that use intake level or a tank level for determining the suction pressure, and thus differential pressure through calculation, have the calculations in the procedure. Plant procedure OAP-003, "Procedure Preparation, Review, and Approval," provides administrative controls for the processing of changes to plant procedures which are part of the POM. Periodic Test procedures are part of the POM; therefore, adequate administrative controls exist to ensure the calculational methods are maintained in the periodic test procedures as stipulated by the NRC recommendation in NUREG-1482, Section 5.5.3.

With respect to other IST test parameters (i.e., flow rate or vibration) that are measured or determined indirectly and subjected to calculation or reduction, vibration is directly measured from the component and flow rates are measured from installed instrumentation. As such, no calculation is required for these parameters.

**Issue 28:** The TER states that CP&L should review the safety function of the 20-inch manual butterfly valves 1(2)-SW-V146 to determine if the valves perform an active safety function in the closed direction to prevent diversion of flow to non-essential loads. The TER states that, if necessary, the valves should be included in the IST Program and be tested to the applicable Code requirements. (Reference: TER Appendix B, Service Water System, Item 6)

**Response:**

CP&L has reviewed the safety function of the 20-inch manual butterfly valves 1(2)-SW-V146 to determine if the valves perform an active safety function. The valves do not perform an active safety function and do not play a role in shutting down the reactor, maintaining the reactor in cold shutdown, or mitigating the consequences of an accident. The function of these valves is to cross-connect conventional service water to the Reactor Building Closed Cooling Water system to supply water as a matter of convenience.

**Issue 29:** The TER states that CP&L should review the safety function of check valves 1(2)-SW-V192 to determine if the valves perform an active safety function in the closed direction to prevent diversion of flow. The TER states that if necessary, the valve should be included in the IST Program and be tested to the applicable Code requirements. (Reference: TER Appendix B, Service Water System, Item 7)

**Response:**

CP&L has reviewed the safety function of the check valves 1(2)-SW-V192 to determine if the valves perform an active safety function. These valves are redundant to the upstream isolation valve for the Well Water system. The Well Water system is no longer in use. The valves do not play a role in shutting down the reactor, maintaining the reactor in cold shutdown, or mitigating the consequences of an accident.



**ENCLOSURE 2**

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62  
PROGRAM SCOPE ISSUES AND RELIEF REQUESTS ASSOCIATED WITH THIRD  
10-YEAR INTERVAL INSERVICE TESTING PROGRAM  
(NRC TAC NOS. MA1115 AND MA1116)**

**Relief Request VRR-02**

SYSTEM:

Nuclear Steam Supply (D-02521, Sheets 1A & 1B, D-25021, Sheets 1A & 1B)

CLASS:

1

COMPONENTS:

1-B21-F013A through 1-B21-F013L  
2-B21-F013A through 2-B21-F013L

CATEGORY:

B/C

TEST REQUIREMENT:

The stroke times of all power-operated valves shall be measured to at least the nearest second (Part 10, Paragraph 4.2.1.4.b).

BASIS FOR RELIEF:

In accordance with 10 CFR 50.55a(f)(5)(iii), Carolina Power & Light (CP&L) Company is requesting approval of a relief request for an impractical requirement. The functions of these valves are to: (1) open upon receipt of an Automatic Depressurization System (ADS) signal to depressurize the reactor vessel (for the ADS valves only), (2) act as primary system safety valves actuating on high system pressure or by manual actuation from the Control Room, and (3) to close and thus maintain the primary system pressure boundary and prevent uncontrolled de-pressurization of the reactor. The function of the solenoid valves is to energize upon receipt of a manual or ADS actuation signal and, in so doing, vent the associated poppet valve assembly causing the associated main valve to open.

There are no remote position indicators related to the position of these valves that signal full-open positioning of the valves. The only positive means of providing valve position indication is by temperature sensors and acoustic monitors downstream of the valves' discharge nozzles, each of which is not sensitive to the extent of opening of the valves. For this reason, measuring the stroke time of these valves has no significance other than the fact that they actuated. The proposed alternate testing gives adequate assurance that these valves will perform satisfactorily and reliably.

This position and alternate testing constitutes indirect measurement of the stroke times of these valves. As noted in NUREG-1482, Paragraph 4.3.4, the indirect

measurement of valve stroke times is one alternative that the NRC has accepted for measurement of Safety-Relief Valve (SRV)/ADS valve stroke times.

**ALTERNATE TESTING:**

Each valve will be exercised following a refueling outage during reactor startup when the reactor is operating at sufficient power to bypass a quantity of steam through the turbine bypass valves equal to or greater than the capacity of a SRV/ADS valve. Since the turbine bypass valves respond automatically to Reactor Pressure Vessel dome pressure, the actuation of an SRV/ADS valve will result in rapid closure of the turbine bypass valves. Conversely, closing one or more SRV/ADS valves will be accompanied by a rapid opening of the turbine bypass valves. A change in turbine bypass valve position can be directly associated with a certain steam flow rate. This flow rate would be equal to the quantity of steam discharged by the SRV/ADS valve.

Each of these valves will be exercised, and proper operation will be ascertained, by observing that each SRV/ADS valve is verified to have opened in less than or equal to five seconds as indicated by a change in steam flow or Turbine Bypass Valve position. This is congruent with the bases of Technical Specification Surveillance Requirement 3.4.3.2, which states:

A manual actuation of each required SRV is performed to verify that, mechanically, the valve is functioning properly and no blockage exists in the valve discharge line. This can be demonstrated by the response of the turbine control valves or bypass valves, by a change in the measured steam flow, or by any other method suitable to verify steam flow.

Observed times will be entered into the Inservice Testing database for historical information.

**ENCLOSURE 3**

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62  
PROGRAM SCOPE ISSUES AND RELIEF REQUESTS ASSOCIATED WITH THIRD  
10-YEAR INTERVAL INSERVICE TESTING PROGRAM  
(NRC TAC NOS. MA1115 AND MA1116)**

**Revised Inservice Testing Program Scope**

**Pump & Valve Tables  
Descriptions and Abbreviations**

<b>Valve Type/Position Abbreviations</b>					
<b>Valve Actuator Type</b>	<b>AO</b>	<b>Air Operator</b>	<b>Valve Position</b>	<b>O</b>	<b>Open</b>
	<b>XP</b>	<b>Explosive Operator</b>		<b>C</b>	<b>Closed</b>
	<b>HO</b>	<b>Hydraulic Operator</b>		<b>LO</b>	<b>Locked Open</b>
	<b>MA</b>	<b>Manual</b>		<b>LC</b>	<b>Locked Closed</b>
	<b>MO</b>	<b>Motor Operator</b>		<b>LT</b>	<b>Locked Throttled</b>
	<b>SA</b>	<b>Self actuated</b>		<b>TH</b>	<b>Throttled</b>
	<b>SO</b>	<b>Solenoid Operator</b>		--	<b>System dependent, as in check valves</b>
<b>Valve Body Type</b>	<b>AN</b>	<b>Angle valve</b>	<b>CO</b>	<b>Valve is normally closed except when sampling</b>	
	<b>BL</b>	<b>Ball Valve</b>			
	<b>BF</b>	<b>Butterfly</b>			
	<b>BC</b>	<b>Butterfly Check</b>			
	<b>CK</b>	<b>Check</b>			
	<b>DA</b>	<b>Diaphragm</b>			
	<b>EF</b>	<b>Excess Flow Check</b>			
	<b>GA</b>	<b>Gate</b>			
	<b>GL</b>	<b>Globe</b>			
	<b>ND</b>	<b>Needle</b>			
	<b>PG</b>	<b>Plug</b>			
	<b>RG</b>	<b>Regulating</b>			
	<b>RL</b>	<b>Relief</b>			
	<b>SH</b>	<b>Shear</b>			
	<b>SC</b>	<b>Stop Check</b>			
	<b>SK</b>	<b>Swing Check</b>			
	<b>RD</b>	<b>Rupture Disc.</b>			
<b>VB</b>	<b>Vacuum Breaker</b>				

## Pump & Valve Tables Descriptions and Abbreviations

<b>Test Abbreviations</b>	
CV-C	Check valve exercise test from the open position to the closed position
CV-O	Check valve exercise test from the closed position to the open position
CV-F	Excess flow check valve test per Technical Specifications
CV-P	Check Valve Partial exercise
D	Explosive valve test
DA	Disassembly and Visual Inspect
F	Fail-safe test
LLRT	Type B & C leak test in accordance with Title 10 of the Code of Federal Regulations, Part 50, Appendix J
L-XI	Valve leak rate test
L-M	Miscellaneous leak test
PIV	Pressure isolation valve test
R	Relief or safety valve setpoint verification test
ST	Full stroke exercise test
ST-C	Full stroke exercise test, including stroke timing, to the closed position
ST-O	Full stroke exercise test, including stroke timing, to the open position
ST-P	Partial stroke exercise test
V	Remote position indication verification

<b>Test Frequency Abbreviations</b>	
1.5Y	Every 1 1/2 years
2Y	Every 2 years
5Y	Every 5 years
C	Cold Shutdown
M	Monthly (31 days)
Q	Quarterly, once every three months (92 days)
R	Refueling
SP	Special test interval, the frequency will be specified in the applicable relief request or procedure.
PB	Performance Based - Test frequency for Local Leak Rate Tests is in accordance with 10CFR50 Appendix J, Option B.
10Y	Every 10 years
6M	Every 6-months

<b>Test Procedure Abbreviations</b>	
New Proc	Indicates new procedure to be written as a result of revised test methodologies (e.g. HPCI OPT-09.2 was broken out into two procedures, one for pump testing and the other for valve testing). The new procedure number (valve testing procedure) was not known during the Code update process.

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 1 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
1-CS-P-1A 1-E21-C001A Core Spray/Class 2	D-25024 sh 2 C-1	OPT-07.2.4a Quarterly	N/A	Q PRR-04	N/A	Q	Q
1-CS-P-1B 1-E21-C001B Core Spray/Class 2	D-25024 sh 1 C-2	OPT-07.2.4b Quarterly	N/A	Q PRR-04	N/A	Q	Q
1-HPCI-P-1 1-E41-C001 High Pressure Coolant Injection Class 2	D-25023 sh 1 C-4	OPT-09.2 Quarterly	Q	Q PRR-02 PRR-04	N/A	Q	Q
1-RCIC-P-1 1-E51-C001 Reactor Core Isolation Cooling Class 2	D-25029 sh 1 B-4	OPT-10.1.1 Quarterly	Q	Q PRR-04	N/A	Q	Q
1-RHR-P-1A 1-E11-C002A Residual Heat Removal Class 2	D-25025 sh 1B B-6	OPT-08.2.2C Quarterly	N/A	Q	N/A	Q	Q
1-RHR-P-1B 1-E11-C002B Residual Heat Removal Class 2	D-25026 sh 2B A-5	OPT-08.2.2B Quarterly	N/A	Q	N/A	Q	Q

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 1 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
1-RHR-P-1C 1-E11-C002C Residual Heat Removal Class 2	D-25025 sh 1B B-3	OPT-08.2.2C Quarterly	N/A	Q	N/A	Q	Q
1-RHR-P-1D 1-E11-C002D Residual Heat Removal Class 2	D-25026 sh 2B A-8	OPT-08.2.2B Quarterly	N/A	Q	N/A	Q	Q
1-RHR-SW-P-1A 1-SW-C002A Service Water/Class 3	D-25037 sh 1 E-5	OPT-08.1.4A Quarterly	N/A	Q	N/A	Q	Q
1-RHR-SW-P-1B 1-SW-C002B Service Water/Class 3	D-25037 sh 2 E-2	OPT-08.1.4B Quarterly	N/A	Q	N/A	Q	Q
1-RHR-SW-P-1C 1-SW-C002C Service Water/Class 3	D-25037 sh 1 E-7	OPT-08.1.4A Quarterly	N/A	Q	N/A	Q	Q
1-RHR-SW-P-1D 1-SW-C002D Service Water/Class 3	D-25037 sh 2 E-4	OPT-08.1.4B Quarterly	N/A	Q	N/A	Q	Q
1-SLC-P-1A 1-C41-C001A Standby Liquid Control/Class 2	D-25047 C-5	OPT-06.1 Quarterly	N/A	N/A	Q	Q	Q



**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 1 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
1-SLC-P-1B 1-C41-C001B Standby Liquid Control/Class 2	D-25047 B-5	OPT-06.1 Quarterly	N/A	N/A	Q	Q	Q
1-SW-C-P-1A 1A Conventional Header SW Pump Service Water/Class 3	D-20041 sh 1 C-2	OPT-24.1-1 Quarterly	N/A	Q	N/A	Q	Q PRR-03
1-SW-C-P-1B 1B Conventional Header SW Pump Service Water/Class 3	D-20041 sh 1 C-4	OPT-24.1-1 Quarterly	N/A	Q	N/A	Q	Q PRR-03
1-SW-C-P-1C 1C Conventional Header SW Pump Service Water/Class 3	D-20041 sh 1 C-7	OPT-24.1-1 Quarterly	N/A	Q	N/A	Q	Q PRR-03
1-SW-N-P-1A 1A Nuclear Header SW Pump Service Water/Class 3	D-20041 sh 2 C-4	OPT-24.1-1 Quarterly	N/A	Q	N/A	Q	Q PRR-03
1-SW-N-P-1B 1B Nuclear Header SW Pump Service Water/Class 3	D-20041 sh 2 C-7	OPT-24.1-1 Quarterly	N/A	Q	N/A	Q	Q PRR-03

## Unit 1 IST Valves

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests			Procedures	Active/Passive
			fail_	normal	safety		Frequency				
1-B21-F008 A/C	D-25021 Sht. 1 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- RIP10R 0MST- RIP10R	A	
1-B21-F010A A/C	D-25021 Sht. 1 C-5	CK 18 SA	--	OC	OC	RFJ-02 V-20	CV-C CV-O LLRT	R SP R	20.3-054 N/A 20.3-054	A	
1-B21-F010B A/C	D-25021 Sht. 1 B-5	CK 18 SA	--	OC	OC	RFJ-02 V-20	CV-C CV-O LLRT	R SP R	20.3-055  20.3-055	A	
1-B21-F013A B/C	D-25021 Sht. 1 E-6	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O  R	R  5Y	11.1.2  19.5	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-F013B	D-25021 Sht. 1	RL	-	C	O	RFJ-03	ST-O	R	11.1.2	A
B/C	E-7	6				VRR-02	R	5Y	19.5	
		SA								
1-B21-F013C	D-25021 Sht. 1	RL	-	C	O	RFJ-03	ST-O	R	11.1.2	A
B/C	C-8	6				VRR-02	R	5Y	19.5	
		SA								
1-B21-F013D	D-25021 Sht. 1	RL	-	C	O	RFJ-03	ST-O	R	11.1.2	A
B/C	C-7	6				VRR-02	R	5Y	19.5	
		SA								
1-B21-F013E	D-25021 Sht. 1	RL	-	C	O	RFJ-03	ST-O	R	11.1.2	A
B/C	C-7	6				VRR-02	R	5Y	19.5	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F013F B/C	D-25021 Sht. 1 E-6	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A
1-B21-F013G B/C	D-25021 Sht. 1 E-7	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A
1-B21-F013H B/C	D-25021 Sht. 1 C-6	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A
1-B21-F013J B/C	D-25021 Sht. 1 C-7	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F013K B/C	D-25021 Sht. 1 E-8	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A
1-B21-F013L B/C	D-25021 Sht. 1 C-8	RL 6 SA	--	C	O	RFJ-03 VRR-02	ST-O R	R 5Y	11.1.2 19.5	A
1-B21-F014A A/C	D-25021 Sht. 1 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV13R 0MST- EFCV13R	A
1-B21-F014B A/C	D-25021 Sht. 1 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV13R 0MST- EFCV13R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F014C A/C	D-25021 Sht. 1 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV-16R OMST- EFCV-16R	A
1-B21-F014D A/C	D-25021 Sht. 1 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST EFCV16R OMST- EFCV16R	A
1-B21-F014E A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
1-B21-F014F A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F014G A/C	D-25021 Sht. 1 B-4	EF .75 SA	-	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
1-B21-F014H A/C	D-25021 Sht. 1 A-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
1-B21-F014J A/C	D-25021 Sht. 1 C-4	EF .75 SA	-	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
1-B21-F014K A/C	D-25021 Sht. 1 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-B21-F014L A/C	D-25021 Sht. 1 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
1-B21-F014M A/C	D-25021 Sht. 1 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST EFCV16R OMST- EFCV16R	A
1-B21-F014N A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST EFCV13R OMST- EFCV13R	A
1-B21-F014P A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F014R A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
1-B21-F014S A/C	D-25021 Sht. 1 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
1-B21-F016 A	D-25021 Sht. 1 D-5	GA 3 MO	--	O	C		ST-C LLRT V	Q PB 2Y	25.4 20.3-58A 25.4	A
1-B21-F019 A	D-25021 Sht. 1 D-3	GA 3 MO	--	O	C		ST-C LLRT V	Q PB 2Y	25.4 20.3-58B 25.4	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-F022A A	D-25021 Sht. 1 E-4	GL	C	O	C	V-21	ST-P	Q	40.2.8	A
		24					ST-C	C	25.1	
		AO					LLRT	R	20.3A.1	
						V	2Y	25.1		
1-B21-F022B A	D-25021 Sht. 1 B-5	GL	C	O	C	CSJ-01 V-21	ST-P	Q	40.2.8	A
		24					ST-C	C	25.1	
		AO					LLRT	R	20.3A.2	
						V	2Y	25.1		
1-B21-F022C A	D-25021 Sht. 1 E-5	GL	C	O	C	CSK-01 V-21	ST-P	Q	40.2.8	A
		24					ST-C	C	25.1	
		AO					LLRT	R	20.3A.3	
						V	2Y	25.1		
1-B21-F022D A	D-25021 Sht. 1 C-5	GL	C	O	C	CSJ-01 V-21	ST-P	Q	40.2.8	A
		24					ST-C	C	25.1	
		AO					LLRT	R	20.3A.4	
						V	2Y	25.1		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-B21-F024A	D-70007 Sht. 1	CK	--	--	OC		CV-C C	31.1	A
C	C-4	1				RFJ-06	CV-O R	31.1	
		SA							
1-B21-F024B	D-70007 Sht. 1	CK	--	--	OC		CV-C C	31.1	A
C	C-4	1				RFJ-06	CV-O R	31.1	
		SA							
1-B21-F024C	D-70007 Sht. 1	CK	--	--	OC		CV-C C	31.1	A
C	C-6	1				RFJ-06	CV-O R	31.1	
		SA							
1-B21-F024D	D-70007 Sht. 1	CK	--	--	OC		CV-C C	31.1	A
C	C-5	1				RFJ-06	CV-O R	31.1	
		SA							

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive	
			fail_	normal	safety					
1-B21-F028A A	D-25021 Sht. 1 E-3	GL	C	O	C	CSJ-01 V-21	ST-P	Q	40.2.8	A
		24					ST-C	C	25.1	
		AO					LLRT	R	20.3A.1	
1-B21-F028B A	D-25021 Sht. 1 B-3	GL	C	O	C	CSJ-01 V-21	V	2Y	25.1	A
		24					ST-P	Q	40.2.8	
		AO					ST-C	C	25.1	
1-B21-F028C A	D-25021 Sht. 1 E-3	GL	C	O	C	CSJ-01 V-21	LLRT	R	20.3A.2	A
		24					V	2Y	25.1	
		AO					ST-P	Q	40.2.8	
1-B21-F028D A	D-25021 Sht. 1 C-3	GL	C	O	C	CSJ-01 V-21	ST-C	C	25.1	A
		24					F	C	25.1	
		AO					LLRT	R	20.3A.3	
1-B21-F028D A	D-25021 Sht. 1 C-3	GL	C	O	C	CSJ-01 V-21	V	2Y	25.1	A
		24					ST-P	Q	40.2.8	
		AO					ST-C	C	25.1	
1-B21-F028D A	D-25021 Sht. 1 C-3	GL	C	O	C	CSJ-01 V-21	LLRT	R	20.3A.4	A
		24					V	2Y	25.1	
		AO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-B21-F029A	D-72006 Sht. 4	CK	--	--	OC		CV-C R 95	A	
C	B-4	1				CSJ-02	CV-O C 31.9		
		SA							
1-B21-F029B	D-72006 Sht. 4	CK	--	--	OC		CV-C R 95	A	
C	B-3	1				CSJ-02	CV-O C 31.9		
		SA							
1-B21-F029C	D-72006 Sht. 4	CK	--	--	OC		CV-C R 95	A	
C	B-7	1				CSJ-02	CV-O C 31.9		
		SA							
1-B21-F029D	D-72006 Sht. 4	CK	--	--	OC		CV-C R 95	A	
C	B-6	1				CSJ-02	CV-O C 31.9		
		SA							

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F032A	D-25021 Sht. 1	SC	--	O	C	CSJ-03	ST-C	C	25.1	A
A/C	C-7	18					LLRT	PB	20.3-056	
		MO					V	2Y	25.1	
1-B21-F032B	D-25021 Sht. 1	SC	--	O	C	CSJ-03	ST-C	C	25.1	A
A/C	B-7	18					LLRT	PB	20.3-057	
		MO					V	2Y	25.1	
1-B21-F036A	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-4	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036B	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-4	.75				RFJ-06	CV-O	R	31.1	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-F036C	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036D	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036E	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036F	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-F036G	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036H	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036J	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-F036K	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-8	.75				RFJ-06	CV-O	R	31.1	
		SA								



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>			<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>			
1-B21-F036L	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A	
C	E-1	.75				RFJ-06	CV-O	R	31.1		
		SA									
1-B21-F037A	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-6	10				RFJ-07	CV-O	R	11.1.3		
		SA									
1-B21-F037B	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-6	10				RFJ-07	CV-O	R	11.1.3		
		SA									
1-B21-F037C	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-6	10				RFJ-07	CV-O	R	11.1.3		
		SA									

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-F037D	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-7	10				RFJ-07	CV-O	R	11.1.3	
		SA								
1-B21-F037E	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-7	10				RFJ-07	CV-O	R	11.1.3	
		SA								
1-B21-F037F	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-7	10				RFJ-07	CV-O	R	11.1.3	
		SA								
1-B21-F037G	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-7	10				RFJ-07	CV-O	R	11.1.3	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>			<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>				
1-B21-F037H	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-7	10				RFJ-07	CV-O	R	11.1.3		
		SA									
1-B21-F037J	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-8	10				RFJ-07	CV-O	R	11.1.3		
		SA									
1-B21-F037K	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-8	10				RFJ-07	CV-O	R	11.1.3		
		SA									
1-B21-F037L	D-25021 Sht. 1	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A	
C	B-8	10				RFJ-07	CV-O	R	11.1.3		
		SA									

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F040 A/C	D-25022 Sht. 2 F-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV10R OMST- EFCV10R	A
1-B21-F042A A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A
1-B21-F042B A/C	D-25020 Sht. 3 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
1-B21-F044A A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F044B A/C	D-25020 Sht. 3 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
1-B21-F046A A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A
1-B21-F046B A/C	D-25020 Sht. 3 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
1-B21-F047C A/C	D-25022 Sht. 2 B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F047D A/C	D-25020 Sht. 3 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV19R 0MST- EFCV194	A
1-B21-F048A A/C	D-25022 Sht. 2 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV18R 0MST- EFCV18R	A
1-B21-F048B A/C	D-25020 Sht. 3 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV19R 0MST- EFCV19R	A
1-B21-F049C A/C	D-25022 Sht. 2 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV18R 0MST- EFCV18R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F049D A/C	D-25020 Sht. 3 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
1-B21-F050A A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
1-B21-F050B A/C	D-25020 Sht. 3 D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
1-B21-F050C A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F050D A/C	D-25020 Sht. 3 D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F052A A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
1-B21-F052B A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F052C A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>			<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>				
1-B21-F052D A/C	D-25020 Sht. 3 F-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST EFCV11R	A	
1-B21-F054 A/C	D-25022 Sht. 2 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A	
1-B21-F056 A/C	D-25022 Sht. 2 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A	
1-B21-F058A A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F058B A/C	D-25020 Sht. 3 D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F058C A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
1-B21-F058D A/C	D-25020 Sht. 3 D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F058E A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F058F A/C	D-25020 Sht. 3 D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
1-B21-F058G A/C	D-25022 Sht. 2 D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
1-B21-F058H A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
1-B21-F058L A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-F058M A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F058N A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
1-B21-F058P A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F058R A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B21-F058S A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST EFCV11R	A
1-B21-F058T A/C	D-25022 Sht. 2 E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
1-B21-F058U A/C	D-25020 Sht. 3 E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
1-B21-F060 A/C	D-25020 Sht. 3 C-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-IV-2149 A/C	D-25020 Sht. 3 D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	MST- EFCV10R MST- EFCV10R	A
1-B21-IV-2196 A/C	D-25022 Sht. 2 C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
1-B21-IV-2455 A/C	D-25022 Sht. 2 D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- RIP10R 0MST- RIP10R	A
1-B21-IV-2456 A/C	D-25020 Sht. 3 F-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- RIP10R 0MST- RIP10R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-B21-V27A C	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27B C	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-4	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27C C	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-4	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27D C	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B21-V27E	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27F	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27G	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27H	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-V27J	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27K	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-8	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V27L	D-70007 Sht. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-2	.75				RFJ-06	CV-O	R	31.1	
		SA								
1-B21-V28A	D-70007 Sht. 1	CK	--	OC	OC		CV-C	C	31.1	A
C	C-5	1				RFJ-06	CV-O	R	31.1	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-B21-V28B	D-70007 Sht. 1	CK	--	OC	OC		CV-C C CV-O R	31.1 31.1	A
C	C-4	1 SA				RFJ-06			
1-B21-V28C	D-70007 Sht. 1	CK	--	OC	OC		CV-C C CV-O R	31.1 31.1	A
C	C-6	1 SA				RFJ-06			
1-B21-V28D	D-70007 Sht. 1	CK	--	OC	OC		CV-C C CV-O R	31.1 31.1	A
C	C-5	1 SA				RFJ-06			
1-B21-V29A	D-72006 Sht. 4	CK	--	OC	OC		CV-C R CV-O C	95 31.9	A
C	B-4	1 SA				CSJ-02			

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B21-V29B C	D-72006 Sht. 4 B-3	CK 1 SA	--	OC	OC	CSJ-02	CV-C CV-O	R C	95 31.9	A
1-B21-V29C C	D-72006 Sht. 4 B-6	CK 1 SA	--	OC	OC	CSJ-02	CV-C CV-O	R C	95 31.9	A
1-B21-V29D C	D-72006 Sht. 4 B-5	CK 1 SA	--	OC	OC	CSJ-02	CV-C CV-O	R C	95 31.9	A
1-B32-F005A AC	D-25018 Sht. 1 C-2	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B32-F005B AC	D-25048 Sht. 2 C-7	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-F006A AC	D-25018 Sht. 1 C-2	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-F006B AC	D-25048 Sht. 2 C-7	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-F019 A	D-25018 Sht. 1 D-7	GL .75 AO	C	O	C		ST-C F LLRT V	Q Q PB 2Y	3.1.22 3.1.22 20.3-60 3.1.22	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-B32-F020	D-25018 Sht. 1	GL	C	O	C		ST-C	Q	3.1.22	A
A	D-3	.75					F	Q	3.1.22	
		AO					LLRT	PB	20.3-60	
							V	2Y	3.1.22	
1-B32-F031A	D-25018 Sht. 1	GA	--	O	C	CSJ-04	ST-C	C	3.1.21	A
B	B-5	28					V	2Y	3.1.21	
		MO								
1-B32-F031B	D-25048 Sht. 2	GA	--	O	C	CSJ-04	ST-C	C	3.1.21	A
B	B-4	28					V	2Y	3.1.21	
		MO								
1-B32-F032A	D-25018 Sht. 1	GA	--	O	C	CSJ-05	ST-C	C	3.1.21	A
B	B-5	4					V	2Y	3.1.21	
		MO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B32-F032B B	D-25048 Sht. 2 B-7	GA 4 MO	--	O	C	CSJ-05	ST-C V	C 2Y	3.1.21 3.1.21	A
1-B32-F039A AC	D-25018 Sht. 1 B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
1-B32-F039B AC	D-25048 Sht. 2 B-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
1-B32-F039C AC	D-25018 Sht. 1 B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B32-F039D AC	D-25048 Sht. 2 C-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
1-B32-F041A AC	D-25048 Sht. 2 C-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
1-B32-F041B AC	D-25048 Sht. 2 C-8	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
1-B32-F041C AC	D-25018 Sht. 1 C-1	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-B32-F041D	D-25018 Sht. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
AC	C-2	.75					V	2Y	0MST- EFCV15R	
		SA								
1-B32-F042A	D-25048 Sht. 2	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
AC	C-7	.75					V	2Y	0MST- EFCV15R	
		SA								
1-B32-F042B	D-25048 Sht. 2	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
AC	C-7	.75					V	2Y	0MST- EFCV15R	
		SA								
1-B32-F042C	D-25018 Sht. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
AC	C-2	.75					V	2Y	0MST- EFCV15R	
		SA								



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-B32-F042D AC	D-25018 Sht. 1 C-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-F058A AC	D-25018 Sht. 1 B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-F058B AC	D-25048 Sht. 2 B-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
1-B32-V22 A	D-25018 Sht. 1 E-3	GA .75 MO	--	O	C	CSJ-06	ST-C V LLRT	C 2Y	3.1.21 3.1.21 20.3-59A	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-B32-V24	D-25018 Sht. 1	CK	--	O	C		CV-C	R	20.3-61	A
AC	E-3	.75					LLRT	R	20.3-61	
		SA								
1-B32-V30	D-25048 Sht. 2	GL	--	O	C	CSJ-06	ST-C	C	3.1.21	A
A	E-6	.75					V	2Y	3.1.21	
		MO					LLRT	PB	20.3-59B	
1-B32-V32	D-25048 Sht. 2	CK	--	O	C		CV-C	R	20.3-62	A
AC	E-6	.75					LLRT	2Y	20.3-62	
		SA								
1-C11-114	D-25017 Sht. 2	CK	--	C	O	RFJ-09	CV-O	SP	14.2.1	A
C	F-4	.75				V-01				
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>				
1-C11-115 C	D-25017 Sht. 2 D-2	CK .5 SA	--	O	C	RFJ-10 V-01	CV-C R	14.1.2a	A
1-C11-132 C	D-25017 Sht. 2 C-4	RD .5 SA	--	C	--	V-01		NONE	P
1-C11-138 C	D-25017 Sht. 2 D-5	CK .5 SA	--	O	C	V-01 V-02	CV-C SP	14.2.1	A
1-C11-CV-126 B	D-25017 Sht. 2 D-5	GA .5 AO	O	C	O	RFJ-11 RFJ-11 V-01	ST-O F SP	14.2.1 14.2.1	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-C11-CV-127	D-25017 Sht. 2	GA	O	C	O	RFJ-11	ST-O	SP	14.2.1	A
B	E-5	.75				RFJ-11	F	SP	14.2.1	
		AO				V-01				
1-C11-CV-F010	D-25017 Sht. 2	GA	C	O	C		ST-C	Q	14.0	A
B	D-4	1					F	Q	14.0	
		AO					V	2Y	14.0	
1-C11-CV-F011	D-25017 Sht. 2	GA	C	O	C		ST-C	Q	14.0	A
B	B-4	2					F	Q	14.0	
		AO					V	2Y	14.0	
1-C11-V139	D-25017 Sht. 2	GA	C	O	C		ST-C	Q	14.0	A
B	D-4	1					F	Q	14.0	
		AO					V	2Y	14.0	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-C11-V140	D-25017 Sht. 2	GA	C	O	C		ST-C	Q	14.0	A
B	B-4	2					F	Q	14.0	
		AO					V	2Y	14.0	
1-C41-F004A	D-25047	GA	-	C	O		D	2Y	6.2.3	A
D	C-7	1.5								
		XP								
1-C41-F004B	D-25047	GA	-	C	O		D	2Y	6.2.3	A
D	B-7	1.5								
		XP								
1-C41-F006	D-25047	CK	-	C	OC	RFJ-14	CV-C	R	20.2-063	A
AC	C-7	1.5				RFJ-14	CV-O	R	6.2.3	
							L-XI	R	20.2-063	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-C41-F007	D-25047	CK	--	C	OC	RFJ-14	CV-C	R	20.2-064	A
AC	B-8	1.5				RFJ-14	CV-O	R	6.2.3	
							L-XI	R	20.2-064	
1-C41-F008	D-25047	GA	--	O	O		V	2Y	6.2.3	P
B	B-8	1.5								
		MA								
1-C41-F029A	D-25047	RL	--	C	O	V-07	R	R	11.0	A
C	D-5	1.5								
		SA								
1-C41-F029B	D-25047	RL	--	C	O	V-07	R	R	11.0	A
C	A-5	1.5								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-C41-F033A C	D-25047 C-6	CK 1.5 SA	--	C	OC		CV-C CV-O	Q Q	6.1 6.1	A
1-C41-F033B C	D-25047 B-6	CK 1.5 SA	--	C	OC		CV-C CV-O	Q Q	6.1 6.1	A
1-C51-J004A-BAL A	F-70081	BL .37 SO	C	C	C		ST-C F LLRT V	Q Q 2Y 2Y	1.2.2A 1.2.2A 20.3-179 20.3-179	A
1-C51-J004A-SHE D	F-70081	SH .37 XP	--	O	C		D	2Y	0-MST- TIP11R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-C51-J004B-BAL A	F-70081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-180		
						V	2Y	20.3-180		
1-C51-J004B-SHE D	F-70081	SH	--	O	C	D	2Y	0-MST- TIP11R	A	
		.37								
		XP								
1-C51-J004C-BAL A	F-70081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-181		
						V	2Y	20.3-181		
1-C51-J004C-SHE D	F-70081	SH	--	O	C	D	2Y	0-MST- TIP11R	A	
		.37								
		XP								



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-C51-J004D-BAL A	F-70081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-182		
						V	2Y	20.3-182		
1-C51-J004D-SHE D	F-70081	SH	--	O	C	D	2Y	0-MST- TIP11R	A	
		.37								
		XP								
1-C51-TIP-CHV AC	F-70081	CK	-	O	C	CV-C	2Y	20.3-183	A	
		.37				LLRT	2Y	20.3-183		
		SA								
1-CAC-SV-1200B A	D-72018	GL	C	O	OC	ST-O	Q	16.0-1	A	
	D-4	1				ST-C	Q	16.0-1		
		SO				F	Q	16.0-1		
						V	2Y	20.4		
						LLRT	PB	20.3-073		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
							Frequency		
1-CAC-SV-1205E	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
B	B-3	.75				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-SV-1209A	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
B	B-2	1				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-SV-1209B	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
B	B-3	1				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-SV-1209D	D-25015 Sht. 1	GL	O	O	C	ST-C	Q	16.0-1	A
B	D-3	.75				F	Q	16.0-1	
		SO				V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-CAC-SV-1211E A	D-72018	GL	C	O	OC	ST-O	Q	16.0-1	A
	B-6	1				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
						LLRT	PB	20.3-089	
1-CAC-SV-1211F A	D-72018	GL	C	O	OC	ST-O	Q	16.0-1	A
	C-6	1				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
						LLRT	PB	20.3-083	
1-CAC-SV-1213A B	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
	B-3	1				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-SV-1215E B	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
	B-4	.75				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures			Active/Passive
			fail_	normal	safety			Frequency			
1-CAC-SV-1216D B	D-25015 Sht. 1 D-5	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	16.0-1 16.0-1 20.4	A	
1-CAC-SV-1218A B	D-73026 Sht. 1 A-6	GL 1 SO	C	O	OC		ST-O ST-C F V	Q Q Q 2Y	16.0-1 16.0-1 16.0-1 20.4	A	
1-CAC-SV-1218C B	D-25015 Sht. 1 B-6	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	16.0-1 16.0-1 20.4	A	
1-CAC-SV-1219B B	D-25015 Sht. 1 C-7	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	16.0-1 16.0-1 20.4	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-CAC-SV-1219C	D-25015 Sht. 1	GL	O	O	C	ST-C	Q	16.0-1	A
B	B-3	1				F	Q	16.0-1	
		SO				V	2Y	20.4	
1-CAC-SV-1225B	D-72018	GL	C	O	OC	ST-O	Q	16.0-1	A
A	B-3	1.2				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
						LLRT	PB	20.3-082	
1-CAC-SV-1225C	D-25015 Sht. 1	GL	O	O	C	ST-C	Q	16.0-1	A
B	D-5	.75				F	Q	16.0-1	
		SO				V	2Y	20.4	
1-CAC-SV-1227A	D-73026 Sht. 1	GL	C	O	OC	ST-O	Q	16.0-1	A
B	B-7	.75				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-CAC-SV-1227B	D-73026 Sht. 1	GL	C	O	OC	ST-O	Q	16.0-1	A	
B	B-7	1				ST-C	Q	16.0-1		
		SO				F	Q	16.0-1		
						V	2Y	20.4		
1-CAC-SV-1227C	D-73026 Sht. 1	GL	C	O	OC	ST-O	Q	16.0-1	A	
B	B-6	1				ST-C	Q	16.0-1		
		SO				F	Q	16.0-1		
						V	2Y	20.4		
1-CAC-SV-1227E	D-72018	GL	C	O	OC	ST-O	Q	16.0-1	A	
A	C-4	1.2				ST-C	Q	16.0-1		
		SO				F	Q	16.0-1		
						V	2Y	20.4		
						LLRT	PB	20.3-78A		
1-CAC-SV-1230B	D-25015 Sht. 1	GL	O	O	C	ST-C	Q	16.0-1	A	
B	E-5	.75				F	Q	16.0-1		
		SO				V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-CAC-SV-1231B B	D-73026 Sht. 1 A-6	GL	C	O	OC	ST-O	Q	16.0-1	A	
		1				ST-C	Q	16.0-1		
	SO				F	Q	16.0-1			
					V	2Y	20.4			
1-CAC-SV-1260 A	D-72018 C-3	GL	C	O	OC	ST-O	Q	16.0-1	A	
		1				ST-C	Q	16.0-1		
	SO				F	Q	16.0-1			
					V	2Y	20.4			
1-CAC-SV-1261 A	D-72018 D-3	GL	C	O	OC	LLRT	PB	20.3-079	A	
		1				ST-O	Q	16.0-1		
	SO				ST-C	Q	16.0-1			
					F	Q	16.0-1			
1-CAC-SV-1262 A	D-72018 C-6	GL	C	O	OC	V	2Y	20.4	A	
		1				LLRT	PB	20.3-074		
	SO				ST-O	Q	16.0-1			
					ST-C	Q	16.0-1			
					F	Q	16.0-1			
					V	2Y	20.4			
					LLRT	PB	20.3-084			

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-CAC-SV-3439 A	D-72018 B-7	GL	C	O	OC	ST-O	Q	16.0-1	A
		1				ST-C	Q	16.0-1	
	SO				F	Q	16.0-1		
					V	2Y	20.4		
					LLRT	PB	20.3-090		
1-CAC-SV-3440 A	D-72018 B-2	GL	C	O	OC	ST-O	Q	16.0-1	A
		1.2				ST-C	Q	16.0-1	
	SO				F	Q	16.0-1		
					LLRT	PB	20.3-081		
					V	2Y	20.4		
1-CAC-SV-4344 B	D-25015 Sht. 1 A-3	GL	O	O	C	ST-C	Q	16.0-1	A
		.5				F	Q	16.0-1	
		SO				V	2Y	20.4	
1-CAC-SV-4345 B	D-25015 Sht. 1 A-6	GL	O	O	C	ST-C	Q	16.0-1	A
		.5				F	Q	16.0-1	
		SO				V	2Y	20.4	



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-CAC-SV-4409-1 B	D-73026 Sht. 2 B-4	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4409-2 B	D-73026 Sht. 2 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4409-3 B	D-73026 Sht. 2 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4409-4 B	D-73026 Sht. 2 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-CAC-SV-4410-1 B	D-73026 Sht. 1 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4410-2 B	D-73026 Sht. 1 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4410-3 B	D-73026 Sht. 1 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	
1-CAC-SV-4410-4 B	D-73026 Sht. 1 B-5	GL .5 SO	C	OC	OC		ST-O	Q	16.0-1	A
							ST-C	Q	16.0-1	
							F	Q	16.0-1	
							V	2Y	20.4	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>				
1-CAC-SV-4540	D-73026 Sht. 2	GL	C	O	OC	ST-O	Q	16.0-1	A
B	B-4	.5				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-SV-4541	D-73026 Sht. 1	GL	C	O	OC	ST-O	Q	16.0-1	A
B	A-6	.5				ST-C	Q	16.0-1	
		SO				F	Q	16.0-1	
						V	2Y	20.4	
1-CAC-V10	D-25015 Sht. 1	BF	C	OC	C	ST-C	Q	16.1.1	A
A	D-6	18				F	Q	16.1.1	
		AO				LLRT	PB	20.3-69E	
						V	2Y	16.1.1	
1-CAC-V15	D-25015 Sht. 1	BF	C	OC	C	ST-C	Q	16.1.1	A
A	D-7	24				F	Q	16.1.1	
		AO				LLRT	PB	20.3-67C	
						V	2Y	16.1.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					
1-CAC-V16 A	D-25015 Sht. 1 A-6	BF 20 AO	C	OC	OC		ST-O	Q	2.3.2	A
							ST-C	Q	2.3.2	
							F	Q	2.3.2	
							LLRT	PB	20.3-67D	
							V	2Y	2.3.2	
1-CAC-V160 A	D-25015 Sht. 1 C-8	GL 1 SO	C	OC	OC		ST-O	Q	16.1.1	A
							ST-C	Q	16.1.1	
							F	Q	16.1.1	
							LLRT	2Y	20.3-67D	
							V	2Y	20.3-67D	
1-CAC-V161 A	D-25015 Sht. 1 F-7	GL 1 SO	C	OC	OC		ST-O	Q	16.1.1	A
							ST-C	Q	16.1.1	
							F	Q	16.1.1	
							LLRT	2Y	20.3-67E	
							V	2Y	20.3-67E	
1-CAC-V162 A	D-25015 Sht. 1 C-7	GL 1 SO	C	OC	OC		ST-O	Q	16.1.1	A
							ST-C	Q	16.1.1	
							F	Q	16.1.1	
							LLRT	2Y	20.3-67D	
							V	2Y	20.3-67D	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
							Frequency		
1-CAC-V163	D-25015 Sht. 1	GL	C	OC	OC	ST-O	Q	16.1.1	A
A	E-7	1				ST-C	Q	16.1.1	
		SO				F	Q	16.1.1	
						LLRT	2Y	20.3-67E	
						V	2Y	20.3-67E	
1-CAC-V17	D-25015 Sht. 1	BF	C	OC	OC	ST-O	Q	2.3.2	A
A	A-7	20				ST-C	Q	2.3.2	
		AO				F	Q	2.3.2	
						LLRT	PB	20.3-67D	
						V	2Y	2.3.2	
1-CAC-V172	D-25015 Sht. 1	GL	C	OC	CO	ST-O	Q	16.1.1	A
A	C-7	2				ST-C	Q	16.1.1	
		SO				F	Q	16.1.1	
						LLRT	PB	20.3-68C	
						V	2Y	20.4	
1-CAC-V216	D-25015 Sht. 1	BF	C	OC	OC	ST-O	Q	16.1.1	A
B	F-2	8				ST-C	Q	16.1.1	
		AO				F	Q	16.1.1	
						V	2Y	16.1.1	
						LLRT	PB	20.3-68D	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-CAC-V22	D-25015 Sht. 1	GL	--	OC	OC	ST-O	Q	16.1.1	A	
A	C-8	2				ST-C	Q	16.1.1		
		MO				LLRT	PB	20.3-68D		
						V	2Y	16.1.1		
1-CAC-V23	D-25015 Sht. 1	GL	--	OC	OC	ST-C	Q	16.1.1	A	
A	E-6	2				ST-O	Q	16.1.1		
		MO				LLRT	PB	20.3-69E		
						V	2Y	16.1.1		
1-CAC-V4	D-25015 Sht. 1	BF	C	O	C	ST-C	Q	16.1.1	A	
A	B-5	8				F	Q	16.1.1		
		AO				LLRT	PB	20.3-67C		
						V	2Y	16.1.1		
1-CAC-V49	D-25015 Sht. 1	GL	C	OC	OC	ST-C	Q	16.1.1	A	
A	F-4	3				ST-O	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-72A		
						V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-CAC-V5	D-25015 Sht. 1	BF	C	OC	C	ST-C	Q	16.1.1	A	
A	B-6	20				F	Q	16.1.1		
		AO				LLRT	PB	20.3-67D		
						V	2Y	16.1.1		
1-CAC-V50	D-25015 Sht. 1	GL	C	OC	OC	ST-C	Q	16.1.1	A	
A	F-5	3				ST-O	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-72B		
						V	2Y	20.4		
1-CAC-V55	D-25015 Sht. 1	GL	C	OC	OC	ST-O	Q	16.1.1	A	
A	D-6	1				ST-C	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-67B		
						V	2Y	20.4		
1-CAC-V56	D-25015 Sht. 1	GL	C	OC	OC	ST-O	Q	16.1.1	A	
A	C-6	1				ST-C	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-67B		
						V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-CAC-V59 C	D-25015 Sht. 1 D-5	RL .75 SA		C	O		R 5Y	11.0	A
1-CAC-V6 A	D-25015 Sht. 1 C-3	BF 18 AO	C	OC	C	ST-C F LLRT V	Q Q PB 2Y	16.1.1 16.1.1 20.3-67E 16.1.1	A
1-CAC-V7 A	D-25015 Sht. 1 B-7	BF 20 AO	C	OC	OC	ST-O ST-C F LLRT V	Q Q Q PB 2Y	16.1.1 16.1.1 16.1.1 20.3-68C 16.1.1	A
1-CAC-V8 A	D-25015 Sht. 1 B-8	BF 20 AO	C	OC	C	ST-C F LLRT V	Q Q PB 2Y	16.1.1 16.1.1 20.3-68D 16.1.1	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-CAC-V9	D-25015 Sht. 1	BF	C	OC	OC		ST-C	Q	16.1.1	A
A	D-5	18					ST-O	Q	16.1.1	
		AO					F	Q	16.1.1	
							LLRT	PB	20.3-69D	
							V	2Y	16.1.1	
1-CAC-X18A	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18							CAC500R	
		SA				V-05	L-M	R	20.6	
							V	2Y	2.3.1	
1-CAC-X18B	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18							CAC500R	
		SA				V-05	L-M	R	20.6	
							V	2Y	2.3.1	
1-CAC-X18C	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18							CAC500R	
		SA				V-05	L-M	R	20.6	
							V	2Y	2.3.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-CAC-X18D	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X18E	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X18F	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X18G	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-CAC-X18H	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X18I	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X18J	D-25015 Sht. 1	VB	--	C	OC	V-05	R	R	0MST	A
AC	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
1-CAC-X20A	D-25015 Sht. 1	VB	--	C	OC	VRR-11	R	R	0MST	A
AC	A-6	20					LLRT	PB	CAC501R	
		SA					CV-O	Q	20.3-67C	
							CV-C	Q	2.3.2 2.3.2	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-CAC-X20B AC	D-25015 Sht. 1 A-8	VB 20 SA	--	C	OC	VRR-11	R LLRT	R PB	OMST CAC501R 20.3-67C	A
1-E11-CV-F053A	D-25025 Sht. 1 D-5	2								
1-E11-CV-F053B	D-25026 Sht. 2 B-6	2								
1-E11-F002A B	D-25037 Sht. 1 C-6	BF 16 MO	--	O	O		ST-O V	Q 2Y	8.1.4A 8.1.4A	P

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-E11-F002B B	D-25037 Sht. 2 C-5	BF 16 MO	--	O	O	ST-O V	Q 2Y	8.1.4B 8.1.4B	P	
1-E11-F003A B	D-25025 Sht. 1 E-4	GL 16 MO	--	OC	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A	
1-E11-F003B B	D-25026 Sht. 2 B-8	GL 16 MO	--	OC	OC	ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A	
1-E11-F004A B	D-25025 Sht. 1 C-5	GA 20 MO	--	O	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-E11-F004B	D-25026 Sht. 2	GA	--	O	OC	ST-O	Q	8.2.2B	A	
B	B-7	20				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
1-E11-F004C	D-25025 Sht. 1	GA	--	O	OC	ST-O	Q	8.2.2C	A	
B	C-5	20				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		
1-E11-F004D	D-25026 Sht. 2	GA	--	O	OC	ST-O	Q	8.2.2B	A	
B	B-7	20				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
1-E11-F005A	D-25037 Sht. 1	CK	--	OC	OC	CV-C	Q	8.1.4A	A	
C	E-6	12				CV-O	Q	8.1.4A		
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>				
1-E11-F005B	D-25037 Sht. 2	CK	--	OC	OC	CV-C	Q	8.1.4B	A
C	E-3	12				CV-O	Q	8.1.4B	
		SA							
1-E11-F005C	D-25037 Sht. 1	CK	--	OC	OC	CV-C	Q	8.1.4A	A
C	E-8	12				CV-O	Q	8.1.4A	
		SA							
1-E11-F005D	D-25037 Sht. 2	CK	--	OC	OC	CV-C	Q	8.1.4B	A
C	E-5	12				CV-O	Q	8.1.4B	
		SA							
1-E11-F006A	D-25025 Sht. 1	GA	--	C	OC	ST-O	Q	8.2.2C	A
B	C-7	20				ST-C	Q	8.2.2C	
		MO				V	2Y	8.2.2C	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-E11-F006B	D-25026 Sht. 2	GA	--	C	OC	ST-O	Q	8.2.2B	A	
B	C-5	20				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
1-E11-F006C	D-25025 Sht. 1	GA	--	C	OC	ST-O	Q	8.2.2C	A	
B	C-3	20				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		
1-E11-F006D	D-25026 Sht. 2	GA	--	C	OC	ST-O	Q	8.2.2B	A	
B	C-8	20				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
1-E11-F007A	D-25025 Sht. 1	GA	--	C	OC	ST-O	Q	8.2.2C	A	
B	D-7	4				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F007B B	D-25026 Sht. 2 B-4	GA 4 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
1-E11-F008 A	D-25025 Sht. 1 D-2	GA 20 MO	--	C	OC	CSJ-07 CSJ-07	ST-O ST-C PIV LLRT V	C C 2Y PB 2Y	8.0 8.0 20.7B 20.3-108 8.0	A
1-E11-F009 A	D-25025 Sht. 1 E-2	GA 20 MO	--	C	OC	CSJ-07 CSJ-07	ST-O ST-C PIV LLRT V	C C 2Y PB 2Y	8.0 8.0 20.7B 20.3-108 8.0	A
1-E11-F011A B	D-25025 Sht. 1 E-5	GA 4 MO	--	C	C		ST-C V	Q 2Y	8.2.2C 8.2.2C	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F011B B	D-25026 Sht. 2 C-7	GA 4 MO	--	C	C	ST-C V	Q 2Y	8.2.2B 8.2.2B	A	
1-E11-F015A A	D-25025 Sht. 1 E-6	GA 24 MO	--	C	OC	ST-O ST-C PIV LLRT V	Q Q 2Y PB 2Y	8.2.2C 8.2.2C 20.7B 20.3-111 8.2.2C	A	
1-E11-F015B A	D-25026 Sht. 2 D-5	GA 24 MO	--	C	OC	ST-O ST-C PIV LLRT V	Q Q 2Y PB 2Y	8.2.2B 8.2.2B 20.7B 20.3-111 8.2.2B	A	
1-E11-F016A A	D-25025 Sht. 1 F-6	GL 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2C 8.2.2C 20.3-113 8.2.2C	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F016B A	D-25026 Sht. 2 E-5	GL 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2B 8.2.2B 20.3-114 8.2.2B	A	
1-E11-F017A A	D-25025 Sht. 1 E-7	AN 24 MO	--	O	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2C 8.2.2C 20.3-112 8.2.2C	A	
1-E11-F017B A	D-25026 Sht. 2 D-4	AN 24 MO	--	O	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2B 8.2.2B 20.3-112 8.2.2B	A	
1-E11-F020A B	D-25025 Sht. 1 D-4	GA 24 MO	--	O	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F020B B	D-25026 Sht. 2 C-7	GA 24 MO	--	O	OC	ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A	
1-E11-F021A A	D-25025 Sht. 1 F-3	GA 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2C 8.2.2C 20.3-113 8.2.2C	A	
1-E11-F021B A	D-25026 Sht. 2 E-7	GA 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2B 8.2.2B 20.3-114 8.2.2B	A	
1-E11-F024A B	D-25025 Sht. 1 E-8	GL 16 MO	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F024B	D-25026 Sht. 2	GL	--	C	OC	ST-O	Q	8.2.2B	A	
B	D-3	16				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
1-E11-F025A	D-25025 Sht. 1	RL	--	C	OC				A	
AC	F-3	1				R	5Y	11.0		
		SA								
1-E11-F025B	D-25026 Sht. 2	RL	--	C	OC				A	
AC	E-7	1				R	5Y	11.0		
		SA								
1-E11-F027A	D-25025 Sht. 1	GL	--	C	OC	ST-O	Q	8.2.2C	A	
A	E-7	6				ST-C	Q	8.2.2C		
		MO				LLRT	PB	20.3-118		
						V	2Y	8.2.2C		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-E11-F027B	D-25026 Sht. 2	GL	--	C	OC	ST-O	Q	8.2.2B	A	
A	E-4	6				ST-C	Q	8.2.2B		
		MO				LLRT	PB	20.3-118		
						V	2Y	8.2.2B		
1-E11-F028A	D-25025 Sht. 1	GA	--	C	OC	ST-O	Q	8.2.2C	A	
A	F-7	16				ST-C	Q	8.2.2C		
		MO				LLRT	PB	20.3-118		
						V	2Y	8.2.2C		
1-E11-F028B	D-25026 Sht. 2	GA	--	C	OC	ST-O	Q	8.2.2B	A	
A	E-4	16				ST-C	Q	8.2.2B		
		MO				LLRT	PB	20.3-119		
						V	2Y	8.2.2B		
1-E11-F029	D-25025 Sht. 1	RL	--	C	O	R	5Y	11.0	A	
AC	C-1	1								
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests  Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>				
1-E11-F030A C	D-25025 Sht. 1 C-6	RL 1 SA	--	C	O	R	5Y 11.0	A	
1-E11-F030B C	D-25026 Sht. 2 C-5	RL 1 SA	--	C	O	R	5Y 11.0	A	
1-E11-F030C C	D-25025 Sht. 1 C-4	RL 1 SA	--	C	O	R	5Y 11.0	A	
1-E11-F030D C	D-25026 Sht. 2 C-7	RL 1 SA	--	C	O	R	5Y 11.0	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E11-F031A	D-25025 Sht. 1	CK	--	OC	OC		CV-O	Q	8.2.2C	A
C	B-7	16				V-22	CV-C	Q	8.2.2C	
		SA								
1-E11-F031B	D-25026 Sht. 2	CK	--	OC	OC		CV-O	Q	8.2.2B	A
C	A-2	16				V-22	CV-C	Q	8.2.2B	
		SA								
1-E11-F031C	D-25025 Sht. 1	CK	--	OC	OC		CV-O	Q	8.2.2C	A
C	B-5	16				V-22	CV-C	Q	8.2.2C	
		SA								
1-E11-F031D	D-25026 Sht. 2	CK	--	OC	OC		CV-O	Q	8.2.2B	A
C	A-6	16				V-22	CV-C	Q	8.2.2B	
		SA								



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures			Active/Passive
			fail_	normal	safety			Frequency			
1-E11-F040 B	D-25026 Sht. 2 C-3	GA 4 MO	--	C	C		ST-C V	Q 2Y	8.2.2B 8.2.2B	A	
1-E11-F046A C	D-25025 Sht. 1 B-6	CK 3 SA	--	OC	OC	V-03 V-22 V-03	CV-P CV-C DA	Q Q SP	8.2.2C 8.2.2C 11.1.2.3	A	
1-E11-F046B C	D-25026 Sht. 2 A-4	CK 3 SA	--	OC	OC	V-03 V-22 V-03	CV-P CV-C DA	Q Q SP	8.2.2B 8.2.2B 11.1.2.3	A	
1-E11-F046C C	D-25025 Sht. 1 B-4	CK 3 SA	--	OC	OC	V-03 V-22 V-03	CV-P CV-C DA	Q Q SP	8.2.2C 8.2.2C 11.1.2.3	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F046D	D-25026 Sht. 2	CK	--	OC	OC	V-03	CV-P	Q	8.2.2B	A
C	A-6	3				V-22	CV-C	Q	8.2.2B	
		SA				V-03	DA	SP	11.1.2.3	
1-E11-F047A	D-25025 Sht. 1	GA	--	O	OC		ST-O	Q	8.2.2C	A
B	D-2	16					ST-C	Q	8.2.2C	
		MO					V	2Y	8.2.2C	
1-E11-F047B	D-25026 Sht. 2	GA	--	O	OC		ST-O	Q	8.2.2B	A
B	A-1	16					ST-C	Q	8.2.2B	
		MO					V	2Y	8.2.2B	
1-E11-F048A	D-25025 Sht. 1	GL	--	O	OC		ST-O	Q	8.2.2C	A
B	E-2	20					ST-C	Q	8.2.2C	
		MO					V	2Y	8.2.2C	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-F048B	D-25026 Sht. 2	GL	--	O	OC		ST-O	Q	8.2.2B	A
B	B-2	20					ST-C	Q	8.2.2B	
		MO					V	2Y	8.2.2B	
1-E11-F049	D-25026 Sht. 2	GL	--	C	C		ST-C	Q	8.2.2B	A
B	C-4	4					V	2Y	8.2.2B	
		MO								
1-E11-F050A	D-25025 Sht. 1	CK	--	C	OC	CSJ-08	CV-O	C	8.0A	A
AC	E-4	24				RFJ-15	CV-C	R	20.7B	
		SA					PIV	R	20.7B	
1-E11-F050B	D-25026 Sht. 2	CK	--	C	OC	CSJ-08	CV-O	C	8.0B	A
AC	D-7	24				RFJ-15	CV-C	R	20.7B	
		SA					PIV	R	20.7B	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-E11-F060A B	D-25025 Sht. 1 E-3	GA 24 MA	--	O	O		V 2Y	20.7B	P
1-E11-F060B B	D-25026 Sht. 2 D-7	GA 24 MA	--	O	O		V 2Y	20.7B	P
1-E11-F073 B	D-25037 Sht. 2 C-2	BF 16 MO	--	C	O	RFJ-16	ST-O V 2Y	8.1.5 8.1.5	A
			Valve to be removed from IST scope in the open direction via ESR 99-00542.						
1-E11-F075 B	D-25026 Sht. 2 C-7	GA 16 MO	--	C	O	RFJ-16	ST-O V 2Y	8.1.5 8.1.5	A
			Valve to be removed from IST scope in the open direction via ESR 99-00542.						

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-E11-F078 C	D-25026 Sht. 2 C-7	CK 16 SA	--	C	OC	RFJ-17	ST-O R	8.1.5	A	
			Valve to be removed from IST scope in the open direction via ESR 99-00542.				CV-C Q	8.2.2B		
1-E11-F079A B	D-25025 Sht. 1 B-6	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A
1-E11-F079B B	D-25026 Sht. 2 B-2	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
1-E11-F089 C	D-25026 Sht. 2 F-3	CK 4 SA	--	C	C	VRR-05	CV-C Q	8.2.2B	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E11-F090 C	D-25026 Sht. 2 F-3	CK 4 SA	--	C	C	VRR-05	CV-C	Q	8.2.2B	A
1-E11-F103A B	D-25025 Sht. 1 C-2	GL 1 MO	--	C	C		ST-C V	Q 2Y	8.2.2C 8.2.2C	A
1-E11-F103B B	D-25026 Sht. 2 C-4	GL 1 MO	--	C	C		ST-C V	Q 2Y	8.2.2B 8.2.2B	A
1-E11-PDV-F068A B	D-25037 Sht. 1 D-1	AN 16 MO	--	C	O		ST-O V	Q 2Y	8.1.4A 8.1.4A	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-PDV-F068B B	D-25037 Sht. 2 D-8	AN 16 MO	--	C	O	ST-O V	Q 2Y	8.1.4B 8.1.4B	A	
1-E11-SV-F037A B	D-25025 Sht. 1 F-4	GL .75 SO	O	O	C	ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A	
1-E11-SV-F037B B	D-25026 Sht. 2 E-6	GL .75 SO	O	O	C	ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A	
1-E11-SV-F037C B	D-25025 Sht. 1 E-4	GL .75 SO	O	O	C	ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-SV-F037D B	D-25026 Sht. 2 E-6	GL .75 SO	O	O	O		V	2Y	20.4	P
1-E11-SV-F043A B	D-25025 Sht. 1 E-4	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E11-SV-F043B B	D-25026 Sht. 2 E-6	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E11-SV-F043C B	D-25025 Sht. 1 E-4	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-SV-F043D B	D-25026 Sht. 2 E-6	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E11-SV-F080A B	D-25025 Sht. 1 B-7	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A
1-E11-SV-F080B B	D-25026 Sht. 2 B-2	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
1-E11-V192 C	D-25025 Sht. 1 F-7	CK 4 SA	--	C	C	VRR-05	CV-C	Q	8.2.2C	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E11-V193 C	D-25025 Sht. 1 F-7	CK 4 SA	--	C	C	VRR-05	CV-C	Q	8.2.2C	A
1-E11-V20 AC	D-25025 Sht. 1 C-3	RL .75 SA	--	C	C		L-XI R	5Y	11.0	A
1-E11-V21 AC	D-25026 Sht. 2 C-3	RL .75 SA	--	C	C		L-XI R	5Y	11.0	A
1-E11-V39 B	D-25049 Sht. 1 F-5	GA 8 M	--	C	O	RFJ-23	ST	R	8.2.2B	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E11-V40 B	D-25049 Sht. 1 B-2	GA 8 M	--	C	O	RFJ-23	ST	R	8.0C	A
1-E11-V51 C	D-25037 C-6	RL .75		C	O		R	5Y	11.0	
1-E11-V54 C	D-25037 C-5	RL .75		C	O		R	5Y	11.0	
1-E21-F001A B	D-25024 Sht. 2 A-7	GA 14 MO	--	O	OC		ST-O ST-C V	Q Q 2Y	7.2.4A 7.2.4A 7.2.4A	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-E21-F001B	D-25024 Sht. 1	GA	--	O	OC	ST-O	Q	7.2.4B	A	
B	B-8	14				ST-C	Q	7.2.4B		
		MO				V	2Y	7.2.4B		
1-E21-F003A	D-25024 Sht. 2	CK	--	C	O	CV-O	Q	7.2.4A	A	
C	D-1	12								
		SA								
1-E21-F003B	D-25024 Sht. 2	CK	--	C	O	CV-O	Q	7.2.4B	A	
C	C-2	12								
		SA								
1-E21-F004A	D-25024 Sht. 2	GA	--	O	OC	ST-O	Q	7.2.4A	A	
A	D-6	10				ST-C	Q	7.2.4A		
		MO				LLRT	PB	20.3-143		
						V	2Y	7.2.4A		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E21-F004B A	D-25024 Sht. 1 E-6	GA	--	O	OC	ST-O	Q	7.2.4B	A	
		10				ST-C	Q	7.2.4B		
		MO				LLRT	PB	20.3-143		
						V	2Y	7.2.4A		
1-E21-F005A A	D-25024 Sht. 2 D-6	GA	--	C	OC	ST-O	Q	7.2.4A	A	
		10				ST-C	Q	7.2.4A		
		MO				LLRT	PB	20.3-142		
						V	2Y	7.2.4A		
						PIV	PB	20.7B		
1-E21-F005B A	D-25024 Sht. 1 E-6	GA	--	C	OC	ST-O	Q	7.2.4B	A	
		10				ST-C	Q	7.2.4B		
		MO				LLRT	PB	20.3-142		
						V	2Y	7.2.4B		
						PIV	2Y	20.7B		
1-E21-F006A AC	D-25024 Sht. 2 D-7	CK	--	C	OC	RFJ-13	CV-O	R	7.1.1A	A
		10				RFJ-13	CV-C	R	20.7B	
		SA					PIV	R	20.7B	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-E21-F006B	D-25024 Sht. 1	CK	--	C	OC	RFJ-13	CV-O	R	7.1.1B	A
AC	E-7	10				RFJ-13	CV-C	R	20.7B	
		SA					PIV	R	20.7B	
1-E21-F007A	D-25024 Sht. 2	GA	--	O	O		V	2Y	20.7B	P
B	D-7	10								
		MA								
1-E21-F007B	D-25024 Sht. 1	GA	--	O	O		V	2Y	20.7B	P
B	E-7	10								
		MA								
1-E21-F012A	D-25024 Sht. 2	RL	--	C	O		R	5Y	11.0	A
C	E-2	1.5								
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E21-F012B C	D-25024 Sht. 1 E-3	RL 1.5 SA	--	C	O		R	5Y	11.0	A
1-E21-F015A B	D-25024 Sht. 2 E-4	GL 10 MO	--	C	C		ST-C V	Q 2Y	7.2.4A 7.2.4A	A
1-E21-F015B B	D-25024 Sht. 1 D-4	GL 10 MO	--	C	C		ST-C V	Q 2Y	7.2.4B 7.2.4B	A
1-E21-F017A AC	D-25024 Sht. 2 E-6	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST EFCV18R 0MST- EFCV18R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-E21-F017B AC	D-25024 Sht. 1 D-6	EF .75 SA	--	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
1-E21-F029A C	D-25024 Sht. 2 C-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4A	A
1-E21-F029B C	D-25024 Sht. 1 E-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4B	A
1-E21-F030A C	D-25024 Sht. 2 C-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4A	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
1-E21-F030B C	D-25024 Sht. 1 E-5	CK 2 SA	--	C	C	VRR-05	CV-C Q	7.2.4B	A	
1-E21-F031A B	D-25024 Sht. 2 C-2	GA 3 MO	--	O	OC		ST-O ST-C V Q Q 2Y	7.2.4A 7.2.4A 7.2.4A	A	
1-E21-F031B B	D-25024 Sht. 1 C-4	GA 3 MO	--	O	OC		ST-O ST-C V Q Q 2Y	7.2.4B 7.2.4B 7.2.4B	A	
1-E21-F032A C	D-25024 Sht. 2 B-5	RL .75 SA	--	C	O		R 5Y	11.0	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
1-E21-F032B C	D-25024 Sht. 1 B-5	RL .75 SA	--	C	O	R	5Y	11.0	A
1-E41-F001 B	D-25023 Sht. 2 F-2	GA 10 MO	--	C	O	ST-O V	Q 2Y	9.7 9.7	A
1-E41-F002 A	D-25023 Sht. 1 E-7	GA 10 MO	--	O	OC	ST-O ST-C LLRT V	Q Q PB 2Y	9.7 9.7 20.3-148 9.2.1	A
1-E41-F003 A	D-25023 Sht. 1 E-6	GA 10 MO	--	O	OC	ST-O ST-C LLRT V	Q Q PB 2Y	9.7 9.7 20.3-148 9.7	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E41-F004 B	D-25023 Sht. 1	GA	--	O	C	ST-C V	Q	9.7	A	
	E-2	16			2Y		9.7			
	MO									
1-E41-F005 C	D-25023 Sht. 1	CK	--	C	O	CV-O	Q	9.2	A	
	B-6	14								
	SA									
1-E41-F006 A	D-25023 Sht. 1	GA	--	C	OC	ST-O ST-C LLRT V	Q	9.7	A	
	A-7	14			Q		9.7			
	MO				PB		20.3-056			
					2Y		9.7			
1-E41-F007 B	D-25023 Sht. 1	GA	--	O	O	ST-O V	Q	9.7	A	
	B-6	14			2Y		9.7			
	MO									

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E41-F008	D-25023 Sht. 1	GL	--	C	C	ST-C	Q	9.7	A	
B	D-5	10				V	2Y	9.7		
		MO								
1-E41-F011	D-25023 Sht. 1	GA	--	C	C	ST-C	Q	9.7	A	
B	F-3	10				V	2Y	9.7		
		MO								
1-E41-F012	D-25023 Sht. 1	GL	--	C	OC	ST-O	Q	9.7	A	
B	A-5	4				ST-C	Q	9.7		
		MO				V	2Y	9.7		
1-E41-F019	D-25023 Sht. 1	CK	--	C	OC	CV-O	Q	9.2	A	
C	E-2	16				CV-C	Q	9.2		
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E41-F020 C	D-25023 Sht. 1 D-4	RL 1 SA	--	C	O		R	5Y	11.0	A
1-E41-F021 C	D-25023 Sht. 1 C-7	SC 20 SA	--	C	OC	V-25	CV-O DA	Q SP	9.2 11.1.2.3	A
1-E41-F022 C	D-25023 Sht. 2 C-6	SC 2 SA	--	C	OC	V-25	DA	SP	11.1.2.3	A
1-E41-F023A A/C	D-25023 Sht. 1 F-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-E41-F023B A/C	D-25023 Sht. 1 D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
1-E41-F023C A/C	D-25023 Sht. 1 F-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A
1-E41-F023D A/C	D-25023 Sht. 1 D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
1-E41-F026 B	D-25023 Sht. 2 A-4	GA 1 AO	C	OC	OC		ST-C F V	Q Q 2Y	9.7 9.7 9.7	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E41-F028	D-25023 Sht. 2	BL	C	O	C		ST-C	Q	9.7	A
B	D-3	.75					F	Q	9.7	
		AO					V	2Y	9.7	
1-E41-F040	D-25023 Sht. 2	CK	--	C	OC					A
C	C-5	2				RFJ-18	CV-C	R	20.2-151	
		SA					DA	SP	11.1.2.3	
1-E41-F041	D-25023 Sht. 1	GA	--	C	OC		ST-O	Q	9.7	A
B	E-4	18					ST-C	Q	9.7	
		MO					V	2Y	9.7	
1-E41-F042	D-25023 Sht. 2	GA	--	C	OC		ST-O	Q	9.7	A
B	A-6	18					ST-C	Q	9.7	
		MO					V	2Y	9.7	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-E41-F045 C	D-25023 Sht. 2 A-5	CK 16 SA	--	C	O	V-08	CV-P DA	Q SP 9.2 11.1.2.3	A
1-E41-F046 C	D-25023 Sht. 1 A-5	CK 4 SA	--	C	O	V-09	CV-P DA	Q SP 9.2 11.1.2.3	A
1-E41-F048 C	D-25023 Sht. 2 B-4	CK 2 SA	--	C	O	V-10 V-10	CV-P DA	Q SP 9.2 11.1.2.3	A
1-E41-F049 C	D-25023 Sht. 2 C-6	CK 20 SA	--	C	OC	RFJ-19	CV-O CV-C	Q R 9.2 20.2-152	A



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E41-F050 C	D-25023 Sht. 2 B-5	RL 1.5 SA	--	C	O		R	5Y	11.0	A
1-E41-F052 C	D-25023 Sht. 2 A-2	CK 2 SA	--	OC	C		CV-C	Q	9.2	A
1-E41-F057 C	D-25023 Sht. 2 B-3	CK 2 SA	--	C	O		CV-P DA	Q SP	9.2 11.1.2.3	A
1-E41-F059 B	D-25023 Sht. 2 C-5	GL 2 MO	--	C	O		ST-O V	Q 2Y	9.7 9.7	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E41-F075	D-25023 Sht. 2	GL	--	O	OC		ST-O	Q	9.7	A
A	B-8	2					ST-C	Q	9.7	
		MO					LLRT	PB	20.3-153	
							V	2Y	9.7	
1-E41-F076	D-25023 Sht. 2	CK	--	C	O	CSJ-10	CV-O	C	20.10	A
C	B-8	2				CSJ-10	CV-C	C	20.10	
		SA								
1-E41-F077	D-25023 Sht. 2	CK	--	C	O	CSJ-10	CV-O	C	20.10	A
C	B-8	2				CSJ-10	CV-C	C	20.10	
		SA								
1-E41-F079	D-25023 Sht. 2	GL	--	O	OC		ST-O	Q	9.7	A
A	B-8	2					ST-C	Q	9.7	
		MO					LLRT	PB	20.3-153	
							V	2Y	9.7	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>	<i>Active/Passive</i>	
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					<i>Frequency</i>
1-E41-PSE-D003	D-25023,SH.2 D-6	RD 16		C	C		REPL	5YR		
1-E41-PSE-D004	D-25023,SH.2 D-6			C	C		REPL	5YR		
1-E41-SV-1218D B	D-25023 Sht. 2 B-7	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E41-SV-1219D B	D-25023 Sht. 2 B-7	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E41-SV-1220D B	D-25023 Sht. 2 B-7	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E41-SV-1221D B	D-25023 Sht. 2 A-7	GL 1 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
1-E41-V159 C	D-25023 Sht. 1 A-7	CK 14 SA	--	C	OC	RFJ-20	CV-O	R	20.12	A
1-E41-V79 C	D-25023 Sht. 2	CK SA	C	C	OC		CV-O	Q	9.2	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E41-V8	D-25023 Sht. 2	GA				V-26	ST-C	Q	9.2	A
B	F-4	10				V-26	ST-O	Q	9.2	
		HO				V-26	F	Q	9.2	
						V-26	V	2Y		
1-E41-V9	D-25023 Sht. 2	GA				V-26	ST-C	Q	9.2	
B	F-4	10				V-26	ST-O	Q	9.2	
		HO				V-26	V	2Y		
						V-26	F	Q	9.2	
1-E41-V93	D-25023 Sht. 1	CK	--	C	C	VRR-05	CV-C	Q	9.2	A
C	D-6	2								
		SA								
1-E41-V94	D-25023 Sht. 1	CK	--	C	C	VRR-05	CV-C	Q	9.2	A
C	D-6	2								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E51-F001	D-25029 Sht. 2	SC	--	O	OC		CV-O	Q	10.1.1	A
C	B-6	8				V-25	DA	SP	11.1.2.3	
		SA								
1-E51-F007	D-25029 Sht. 1	GA	--	O	OC		ST-O	Q	10.1.8	A
A	E-7	3					ST-C	Q	10.1.8	
		MO					LLRT	PB	20.3-156	
							V	2Y	10.2.1	
1-E51-F008	D-25029 Sht. 1	GA	--	O	OC		ST-O	Q	10.1.8	A
A	E-6	3					ST-C	Q	10.1.8	
		MO					LLRT	PB	20.3-156	
							V	2Y	10.1.8	
1-E51-F010	D-25029 Sht. 1	GA	--	O	OC		ST-O	Q	10.1.8	A
B	E-4	6					ST-C	Q	10.1.8	
		MO					V	2Y	10.1.8	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-E51-F011	D-25029 Sht. 1	CK	--	C	OC	CV-O	Q	10.1.1	A	
C	D-4	6				CV-C	Q	10.1.1		
		SA								
1-E51-F012	D-25029 Sht. 1	GA	--	O	O	ST-O	Q	10.1.8	A	
B	B-6	4				V	2Y	10.1.8		
		MO								
1-E51-F013	D-25029 Sht. 1	GA	--	C	OC	ST-O	Q	10.1.8	A	
A	B-6	4				ST-C	Q	10.1.8		
		MO				LLRT	PB	20.3-165		
						V	2Y	10.1.8		
1-E51-F014	D-25029 Sht. 1	CK	--	C	O	CV-O	Q	10.1.1	A	
C	B-5	4								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E51-F017 C	D-25029 Sht. 1 D-3	RL 1 SA	--	C	O		R	5Y	11.0	A
1-E51-F018 C	D-25020 Sht. 2 E-5	RL 1		C	O		R	5Y	PT-11.0	
1-E51-F019 B	D-25029 Sht. 2 C-3	GL 2 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	10.1.8 10.1.8 10.1.8	A
1-E51-F021 C	D-25029 Sht. 2 C-2	CK 2 SA	--	OC	O	V-09	CV-P DA	Q SP	10.1.1 11.1.2.3	A



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-E51-F022	D-25029 Sht. 1	GL	--	C	C	ST-C	Q	10.1.8	A	
B	D-5	4				V	2Y	10.1.8		
		MO								
1-E51-F025	D-25029 Sht. 1	GL	C	C	C	ST-C	Q	10.1.8	A	
B	B-1	1				F	Q	10.1.8		
		AO				V	2Y	10.1.8		
1-E51-F028	D-25029 Sht. 2	CK	--	--	--	CV-C			P	
N/A	D-1	2				L-XI				
		SA								
1-E51-F029	D-25029 Sht. 1	GA	--	C	OC	ST-O	Q	10.1.8	A	
B	D-4	6				ST-C	Q	10.1.8		
		MO				V	2Y	10.1.8		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E51-F030 C	D-25029 Sht. 2 A-5	CK 6 SA	--	C	O	V-08	CV-P DA	Q SP	10.1.1 11.1.2.3	A
1-E51-F031 B	D-25029 Sht. 2 A-6	GA 6 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	10.1.8 10.1.8 10.1.8	A
1-E51-F040 C	D-25029 Sht. 2 B-6	CK 8 SA	--	C	OC	RFJ-19	CV-O CV-C	Q R	10.1.1 20.2-160	A
1-E51-F043A A/C	D-25029 Sht. 1 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-E51-F043B A/C	D-25029 Sht. 1 F-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV17R OMST- EFCV17R	A
1-E51-F043C A/C	D-25029 Sht. 1 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV14R OMST- EFCV14R	A
1-E51-F043D A/C	D-25029 Sht. 1 F-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV17R OMST- EFCV17R	A
1-E51-F045 B	D-25029 Sht. 1 D-2	GL 3 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	10.1.8 10.1.8 10.1.8	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive	
			fail_	normal	safety			Frequency			
1-E51-F046	D-25029 Sht. 1	GL	--	C	O		ST-O	Q	10.1.8	A	
B	B-4	2					ST-C	Q	10.1.8		
		MO					V	2Y	10.1.8		
1-E51-F047	D-25029 Sht. 2	CK	--	C	OC		CV-C	Q	10.1.1	A	
C	E-6	2					DA	SP			
		SA									
1-E51-F062	D-25029 Sht. 2	GL	--	O	C		ST-O	Q	10.1.8	A	
A	B-7	2					ST-C	Q	10.1.8		
		MO					LLRT	PB	20.3-161		
							V	2Y	10.1.8		
1-E51-F063	D-25029 Sht. 2	CK	--	C	O		CSJ-10	CV-O	C	20.10	A
C	B-8	2					CSJ-10	CV-C	C	20.10	
		SA									

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-E51-F064 C	D-25029 Sht. 2 B-8	CK 2 SA	--	C	O	CSJ-10 CSJ-10	CV-O CV-C	C C	20.10 20.10	A
1-E51-F066 A	D-25029 Sht. 2 B-8	GL 2 MO	--	O	C		ST-O ST-C LLRT V	Q Q PB 2Y	10.1.8 10.1.8 20.3-161 10.1.8	A
1-E51-PSE-D001	D-25029,SH.2 C-5	RD 8		C	C		REPL	5YR		
1-E51-PSE-D002	D-25-29,SH.2 C-5	RD 8		C	C		REPL	5YR		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>	
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
1-E51-V72 C	D-25029 Sht. 1 A-5	CK 2 SA	--	C	C	VRR-05	CV-C Q	10.1.1	A	
1-E51-V73 C	D-25029 Sht. 1 A-5	CK 2 SA	--	C	C	VRR-05	CV-C Q	10.1.1	A	
1-E51-V8 B	D-25029 Sht. 1 C-8	GA 3 MO				V-26 V-26 V-26 V-26	ST-C ST-O V F	Q Q 2Y Q	10.1.1 10.1.1 10.1.1	
1-E51-V88 A/C	D-25029 Sht. 1 B-7	CK 4 SA	--	C	OC	V-11 V-11	DA CV-C LLRT	SP 2Y 2Y	11.1.2.3 20.3-057 20.3-057	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					Frequency
1-E51-V9	D-25029 Sht. 1	GA				V-26	ST-O	Q	10.1.1	
B	C-3	3				V-26	ST-C	Q	10.1.1	
		HO				V-26	V	2Y		
						V-26	F	Q	10.1.1	
1-G16-F003	D-25045 Sht. 3	GA	C	O	C		ST-C	Q	11.3	A
A	C-3	3					F	Q	11.3	
		AO					LLRT	PB	20.3-162	
							V	2Y	11.3	
1-G16-F004	D-25045 Sht. 3	GA	C	O	C		ST-C	Q	11.3	A
A	C-3	3					F	Q	11.3	
		AO					LLRT	PB	20.3-162	
							V	2Y	11.3	
1-G16-F019	D-25045 Sht. 3	GA	C	O	C		ST-C	Q	11.3	A
A	B-3	3					F	Q	11.3	
		AO					LLRT	PB	20.3-163	
							V	2Y	11.3	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-G16-F020	D-25045 Sht. 3	GA	C	O	C	ST-C	Q	11.3	A	
A	B-2	3				F	Q	11.3		
		AO				LLRT	PB	20.3-163		
						V	2Y	11.3		
1-G31-F001	D-25027 Sht. 1	GA	--	O	C	ST-C	Q	14.6	A	
A	D-7	6				LLRT	PB	20.3-164		
		MO				V	2Y	14.6		
1-G31-F004	D-25027 Sht. 1	GA	--	O	C	ST-C	Q	14.6	A	
A	D-6	6				LLRT	PB	20.3-164		
		MO				V	2Y	14.6		
1-G31-F042	D-25027 Sht. 1	GL	--	O	C	ST-C	Q	14.6	A	
A	E-5	4				LLRT	PB	20.3-165		
		MO				V	2Y	14.6		



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-G41-F004 B	D-25049 Sht. 1 B-2	GA 8 M	--	O	C	RFJ-23	ST	R 8.0C	A
1-G41-F016 B	D-25049 Sht. 1 C-2	GA 8 M	--	C	O	RFJ-23	ST	R 8.0C	A
1-G41-F036 B	D-25049 Sht. 1 F-4	GA 8 M	--	C	O	RFJ-23	ST	R 8.2.2B	A
1-G41-V24 C	D-25049 Sht. 1 E-4	CK 6 SA	--	OC	OC		CV-O CV-C	Q Q 24.6.2 24.6.2	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-G41-V8 C	D-25049 Sht. 1 E-4	CK 6 SA	--	OC	OC		CV-O CV-C	Q Q	24.6.2 24.6.2	A
1-RCC-SV-1222B A	D-25038 Sht. 1 F-2	GL .75 SO	O	O	C		ST-C F LLRT V	Q Q PB 2Y	2.2.1A 2.2.1A 20.3-167 20.4	A
1-RCC-SV-1222C A	D-25038 Sht. 1 E-2	GL .75 SO	O	O	C		ST-C F LLRT V	Q Q PB 2Y	2.2.1A 2.2.1A 20.3-167 20.4	A
1-RCC-V28 A	D-25038 Sht. 1 D-8	GA 8 MO	--	O	C	CSJ-13	ST-C V LLRT	Q 2Y PB	22.2 22.2 20.3-166	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-RCC-V52 A	D-25038 Sht. 1 E-7	GA 8 MO	--	O	C	CSJ-13	ST-C V LLRT	Q 2Y PB	22.2 22.2 20.3-166	A
1-RNA-IV-2307 C	D-70029 Sht. 2 D-6	CK .75 SA	--	OC	C		CV-C	C	20.9	A
1-RNA-IV-2311 C	D-70029 Sht. 2 F-2	CK .75 SA	--	OC	C		CV-C	C	20.9	A
1-RNA-IV-2315 C	D-70029 Sht. 2 B-6	CK .75 SA	--	OC	C		CV-C	C	20.9	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-RNA-IV-2319 C	D-70029 Sht. 2 B-6	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
1-RNA-IV-2323 C	D-72006 Sht. 4 F-6	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
1-RNA-IV-2327 C	D-72006 Sht. 4 F-6	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
1-RNA-IV-2331 C	D-70029 Sht. 2 F-1	CK .75 SA		OC	C	CV-C	C	20.9	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-RNA-IV-2620 C	D-70029 Sht. 2 B-5	CK .75 SA	--	OC	O	CV-O	C	20.9	A	
1-RNA-IV-2621 C	D-70029 Sht. 2 B-5	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
1-RNA-IV-2622 C	D-70029 Sht. 2 B-5	CK .75 SA	--	OC	OC	CV-O	C	20.9	A	
1-RNA-PRV-5256 C	D-73068 Sht.1 E-3	RL .75 SA	--	C	OC	R	SP	11.0	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests  Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>				
1-RNA-PRV-5258 C	D-73068 Sht.1 C-3	RL .75 SA	--	C	OC	R	SP 11.0	A	
1-RNA-PRV-5259 C	D-73068 Sht.1 E-7	RL .75 SA	--	C	OC	R	SP 11.0	A	
1-RNA-PRV-5260 C	D-73068 Sht.1 B-7	RL .75 SA	--	C	OC	R	SP 11.0	A	
1-RNA-PSE-101	D-28046,SH.77	RD		C	C	REPL	5YR		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-RNA-PSE-102	D-28046,SH.77	RD		C	C		REPL 5YR		
1-RNA-SV-5251	D-73068 Sht. 1	GL	O	O	OC		ST-O Q 31.6		A
A	G-2	.75					ST-C Q 31.6		
		SO					F Q 31.6		
							LLRT PB 20.3-170		
							V 2Y 20.4		
1-RNA-SV-5253	D-73068 Sht. 1	GL	O	O	OC		ST-O Q 31.6		A
A	D-2	.75					ST-C Q 31.6		
		SO					F Q 31.6		
							LLRT PB 20.3-171		
							V 2Y 20.4		
1-RNA-SV-5261	D-70077 Sht. 3	GL	C	O	C	CSJ-14	ST-C C 31.11		A
A	D-1	2				CSJ-14	F C 31.11		
		SO					LLRT PB 20.3-169		
							V 2Y 20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
1-RNA-SV-5262 A	D-70077 Sht. 3 D-8	GL 2 SO	C	O	C	CSJ-14 CSJ-14	ST-C F LLRT V	C C PB 2Y 31.11 31.11 20.3-168 20.4	A
1-RNA-SV-5481 B	D-73068 Sht. 1 G-5	GL .75 SO	O	C	O		ST-O F V	Q Q 2Y 31.6 31.6 20.4	A
1-RNA-SV-5482 B	D-73068 Sht. 1 D-5	GL .75 SO	O	C	O		ST-O F V	Q Q 2Y 31.6 31.6 20.4	A
1-RNA-V305 C	D-73068 Sht. 1 F-3	CK .75 SA	--	C	O		CV-O	Q 2.3.2	A



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-RNA-V306 C	D-70029 Sht. 2 D-5	CK .75 SA	--	O	C		CV-C	Q	2.3.2	A
1-RNA-V307 C	D-73068 Sht. 1 C-3	CK .75 SA	--	C	O		CV-O	Q	2.3.2	A
1-RNA-V308 C	D-70029 Sht. 2 C-3	CK .75 SA	--	O	C		CV-C	Q	2.3.2	A
1-RNA-V313 C	D-70007 Sht. 1 E-3	CK .75 SA	--	OC	O	RFJ-06	CV-O	R	31.1	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-RNA-V314 C	D-70007 Sht. 1 F-6	CK .75 SA	--	OC	O	RFJ-06	CV-O	R	31.1	A
1-RNA-V315 C	D-70007 Sht. 1 E-2	CK .75 SA	--	OC	OC	RFJ-06 RFJ-21	CV-O CV-C	R R	31.1 20.8	A
1-RNA-V316 C	D-70007 Sht. 1 E-7	CK .75 SA	--	OC	OC	RFJ-06 RFJ-21	CV-O CV-C	R R	31.1 20.8	A
1-RNA-V317 C	D-73068 Sht. 1 E-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-RNA-V318 C	D-73068 Sht. 1 E-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V319 C	D-73068 Sht. 1 E-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V320 C	D-73068 Sht. 1 E-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V321 C	D-73068 Sht. 1 E-8	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
1-RNA-V322 C	D-73068 Sht. 1 E-7	CK .25 SA	--	OC	O	V-18	CV-O 2Y	31.8	A	
1-RNA-V323 C	D-73068 Sht. 1 E-8	CK .25 SA	--	OC	O	V-18	CV-O 2Y	31.8	A	
1-RNA-V324 C	D-73068 Sht. 1 E-6	CK .25 SA	--	OC	O	V-18	CV-O 2Y	31.8	A	
1-RNA-V325 C	D-73068 Sht. 1 E-6	CK .25 SA	--	OC	O	V-18	CV-O 2Y	31.8	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-RNA-V326 C	D-73068 Sht. 1 E-6	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V327 C	D-73068 Sht. 1 E-6	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V328 C	D-73068 Sht. 1 C-6	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V329 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-RNA-V330 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V331 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V332 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V333 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-RNA-V334 C	D-73068 Sht. 1 C-7	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V335 C	D-73068 Sht. 1 C-8	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V336 C	D-73068 Sht. 1 C-8	CK .25 SA	--	OC	O	V-18	CV-O	2Y	31.8	A
1-RNA-V350 AC	D-70007 Sht. 1 D-7	CK .75 SA	--	OC	OC	RFJ-22 VRR-03 RFJ-22	CV-O CV-C LLRT	R R 2Y	31.1 20.3-169 20.3-169	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-RNA-V351	D-70007 Sht. 1	CK	--	OC	OC	RFJ-22	CV-O	R	31.1	A
AC	D-2	.75				VRR-03				
		SA				RFJ-22	CV-C	R	20.3-168	
							LLRT	2Y	20.3-168	
1-RXS-SV-4186	D-73027 Sht. 1	GL	C	C	OC		ST-O	Q	15.8	A
A	A-7	.5					ST-C	Q	15.8	
		SO					F	Q	15.8	
							LLRT	PB	20.3-172	
							V	2Y	20.4	
1-RXS-SV-4187	D-73027 Sht. 1	GL	C	C	OC		ST-O	Q	15.8	A
A	A-7	.5					ST-C	Q	15.8	
		SO					F	Q	15.8	
							LLRT	PB	20.3-173	
							V	2Y	20.4	
1-RXS-SV-4188	D-73027 Sht. 1	GL	C	C	OC		ST-O	Q	15.8	A
A	B-7	.5					ST-C	Q	15.8	
		SO					F	Q	15.8	
							LLRT	PB	20.3-174	
							V	2Y	20.4	



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-RXS-SV-4189 A	D-73027 Sht. 1	GL	C	C	OC	ST-O	Q	15.8	A	
		.5				ST-C	Q	15.8		
	SO				F	Q	15.8			
					LLRT	PB	20.3-175			
					V	2Y	20.4			
1-RXS-SV-4192 B	F-40073 Sht. 3	GL	C	C	OC	ST-O	Q	15.7	A	
		.5				ST-C	Q	15.7		
	SO				F	Q	15.7			
					V	2Y	20.4			
1-SGT-V8 B	F-40073 Sht. 3	AN	-	C	O	ST-O	Q	15.7	A	
		.5				V	2Y	15.7		
	MO									
1-SGT-V9 B	F-40073 Sht. 3	AN	-	C	O	ST-O	Q	15.7	A	
		.5				V	2Y	15.7		
	MO									

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-PV-116	D-20041 Sht. 1	GA	--	C	O	ST-O	Q	24.1-1	A	
B	C-3	2				F	Q	24.1-1		
		AO								
1-SW-PV-118	D-20041 Sht. 1	GA	--	C	O	ST-O	Q	24.1-1	A	
B	C-5	2				F	Q	24.1-1		
		AO								
1-SW-PV-120	D-20041 Sht. 1	GA	--	C	O	ST-O	Q	24.1-1	A	
B	C-7	2				F	Q	24.1-1		
		AO								
1-SW-PV-138	D-20041 Sht. 2	GA	--	C	O	ST-O	Q	24.1-1	A	
B	C-5	2				F	Q	24.1-1		
		AO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-SW-PV-140	D-20041 Sht. 2	GA	--	C	O	ST-O	Q	24.1-1	A	
B	C-7	2				F	Q	24.1-1		
		AO								
1-SW-V101	D-25037 Sht. 1	BF	--	C	CO	ST-C	Q	8.1.4A	A	
B	D-4	24				ST-O	Q	8.1.4A		
		MO				V	2Y	8.1.4A		
1-SW-V102	D-25037 Sht. 2	BF	--	C	OC	ST-O	Q	8.1.4A	A	
B	D-1	24				ST-C	Q	8.1.4A		
		MO				V	2Y	8.1.4A		
1-SW-V103	D-25037 Sht. 2	BF	--	O	C	ST-C	Q	8.1.4A	A	
B	E-8	20				V	2Y	8.1.4A		
		MO								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V105	D-25037 Sht. 2	BF	--	C	O	ST-O	Q	8.1.4B	A	
B	E-7	24				V	2Y	8.1.4B		
		MO								
1-SW-V106	D-25037 Sht. 1	BF	--	O	C	ST-C	Q	8.1.4A	A	
B	F-7	20				V	2Y	8.1.4A		
		MO								
1-SW-V111	D-25037 Sht. 1	BF	--	C	OC	ST-O	Q	24.1.2	A	
B	C-2	6				ST-C	Q	24.1.2		
		MO				V	2Y	24.1.2		
1-SW-V117	D-25037 Sht. 2	BF	--	C	O	ST-O	Q	24.1.2	A	
B	C-7	6				V	2Y	24.1.2		
		MO								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-SW-V118	D-25037 Sht. 1	BF	--	O	OC	ST-C	Q	24.1.2	A	
B	B-6	6				ST-O	Q	24.1.2		
		MO				V	2Y	24.1.2		
1-SW-V123	D-25037 Sht. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	D-7	2				F	Q	24.1.2		
		AO								
1-SW-V124	D-25037 Sht. 2	BF	O	C	O	ST-O	Q	24.1.2	A	
B	B-6	6				F	Q	24.1.2		
		AO								
1-SW-V125	D-25037 Sht. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-4	1				F	Q	24.1.2		
		AO								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V126	D-25037 Sht. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-5	1				F	Q	24.1.2		
		AO								
1-SW-V128	D-25037 Sht. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
B	C-2	2				F	Q	24.1.2		
		AO								
1-SW-V129	D-25037 Sht. 1	BF	O	C	O	ST-O	Q	24.1.2	A	
B	B-3	6				F	Q	24.1.2		
		AO								
1-SW-V13	D-20041 Sht. 1	BF	--	O	OC	ST-O	Q	24.1-1	A	
B	E-2	20				ST-C	Q	24.1-1		
		MO				V	2Y	24.1-1		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-SW-V130	D-25037 Sht. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-5	1				F	Q	24.1.2		
		AO								
1-SW-V131	D-25037 Sht. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-4	1				F	Q	24.1.2		
		AO								
1-SW-V136	D-25037 Sht. 1	PG	O	C	O	ST-O	Q	8.1.4A	A	
B	E-5	1.5				F	Q	8.1.4A		
		AO				V	2Y	8.1.4A		
1-SW-V137	D-25037 Sht. 1	PG	O	C	O	ST-O	Q	8.1.4A	A	
B	E-7	1.5				F	Q	8.1.4A		
		AO				V	2Y	8.1.4A		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V138	D-25037 Sht. 2	PG	O	C	O	ST-O	Q	8.1.4B	A	
B	E-2	1.5				F	Q	8.1.4B		
		AO				V	2Y	8.1.4B		
1-SW-V139	D-25037 Sht. 2	PG	O	C	O	ST-O	Q	8.1.4B	A	
B	E-4	1.5				F	Q	8.1.4B		
		AO				V	2Y	8.1.4B		
1-SW-V14	D-20041 Sht. 1	BF	--	C	OC	ST-O	Q	24.1-1	A	
B	E-3	20				ST-C	Q	24.1-1		
		MO				V	2Y	24.1-1		
1-SW-V144	D-25037 Sht. 2	CK	-	O	C	DA	SP	11.1.2.3	A	
C	D-1	1.5								
		SA								



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V148 C	D-25037 Sht. 2 D-2	CK 1.5 SA	-	O	C		DA	SP	11.1.2.3	A
1-SW-V15 B	D-20041 Sht. 1 E-4	BF 20 MO	-	O	OC		ST-O ST-C V	Q Q 2Y	24.1-1 24.1-1 24.1-1	A
1-SW-V16 B	D-20041 Sht. 1 E-5	BF 20 MO	-	C	OC		ST-O ST-C V	Q Q 2Y	24.1-1 24.1-1 24.1-1	A
1-SW-V17 B	D-20041 Sht. 1 E-6	BF 20 MO	--	O	OC		ST-O ST-C V	Q Q 2Y	24.1-1 24.1-1 24.1-1	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-SW-V18	D-20041 Sht. 1	BF	--	C	OC		ST-O	Q	24.1-1	A
B	E-7	20					ST-C	Q	24.1-1	
		MO					V	2Y	24.1-1	
1-SW-V19	D-20041 Sht. 2	BF	--	O	OC		ST-O	Q	24.1-1	A
B	E-5	20					ST-C	Q	24.1-1	
		MO					V	2Y	24.1-1	
1-SW-V20	D-20041 Sht. 2	BF	--	O	OC		ST-O	Q	24.1-1	A
B	E-8	20					ST-C	Q	24.1-1	
		MO					V	2Y	24.1-1	
1-SW-V21	D-20041 Sht. 1	CK	--	OC	OC	V-06	CV-P	Q	24.1-1	A
C	D-3	20					DA	SP	11.1.2.3	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V22 C	D-20041 Sht. 1 D-5	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-1 11.1.2.3	A
1-SW-V23 C	D-20041 Sht. 1 D-8	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-1 11.1.2.3	A
1-SW-V24 C	D-20041 Sht. 2 D-5	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-1 11.1.2.3	A
1-SW-V25 C	D-20041 Sht. 2 D-8	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-1 11.1.2.3	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
1-SW-V294	D-20041 Sht. 1	BF	-	O	C		ST-C	Q	24.1.2	A
B	F-2	10					V	2Y	24.1.2	
		MO								
1-SW-V295	D-20041 Sht. 1	BF	-	O	C		ST-C	Q	24.1.2	A
B	F-2	10					V	2Y	24.1.2	
		MO								
1-SW-V3	D-20041 Sht. 2	BF	-	O	C	CSJ-11	ST-C	C	24.4	A
B	F-2	30					V	2Y	24.4	
		MO								
1-SW-V36	D-20041 Sht. 2	BF	-	O	C	CSJ-12	ST-C	C	24.4	A
B	F-7	4					V	2Y	24.4	
		MO								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
1-SW-V37 B	D-20041 Sht. 2 E-7	BF 4 MO	--	O	C	CSJ-12	ST-C V	C 2Y	24.4 24.4	A
1-SW-V4 B	D-20041 Sht. 2 F-4	BF 30 MO		O	C	CSJ-11	ST-C V	C 2Y	24.4 24.4	A
1-SW-V679 B	D-2274 Sht. 1 C-3	BF 6 MO	--	C	O		ST-O	Q	1-MST- SW12Q	A
1-SW-V680 B	D-2274 Sht. 1 C-7	BF 6 MO	--	C	O		ST-O	Q	1-MST- SW12Q	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-SW-V681 B	D-2274 Sht. 2 C-3	BF 6 MO	--	C	O		ST-O	Q	2-MST- SW12Q	A
1-SW-V682 B	D-2274 Sht. 2 C-7	BF 6 MO	--	C	O		ST-O	Q	2-MST- SW12Q	A
1-SW-V683 C	D-2274 Sht. 1 C-3	CK 6 SA	--	C	OC	V-13	CV-P	Q	1-MST- SW12Q	A
						V-13	DA	SP	11.1.2.3	
1-SW-V684 C	D-2274 Sht. 1 C-7	CK 6 SA	--	C	OC	V-13	CV-P	Q	1-MST- SW12Q	A
						V-13	DA	SP	11.1.2.3	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-SW-V685 C	D-2274 Sht. 2 C-3	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	2-MST- SW12Q 11.1.2.3	A
1-SW-V686 C	D-2274 Sht. 2 C-6	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	2-MST- SW12Q 11.1.2.3	A
1-VA-1A-BFCV-RB C	F-40073 Sht. 3 D-1	BC 18 SA	--	OC	OC		CV-O CV-C	Q Q	15.7 15.7	A
1-VA-1A-BFIV-RB B	F-40073 Sht. 2 F-7	BF 54 AO	--	O	C	V-23 V-23	ST ST-C	Q R	04.1.1 15.4A	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-VA-1A-BFV-RB B	F-40073 Sht. 3 F-2	BF 24 MO	-	C	C		ST-C V	Q 2Y	15.7 15.7	A
1-VA-1A-CV-CB C	F-4080 C-3	54 SA	-	-	-					
1-VA-1B-BFCV-RB C	F-40073 Sht. 3 D-5	BC 18 SA	--	OC	OC		CV-O CV-C	Q Q	15.7 15.7	A
1-VA-1B-BFIV-RB B	F-40073 Sht. 2 F-7	BF 54 AO	--	O	C	V-23 V-23	ST ST-C	Q R	04.1.1 15.4A	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
1-VA-1B-BFV-RB B	F-40073 Sht. 3	BF	-	O	O		ST-O	Q	15.7	A
	D-1	18				V	2Y	15.7		
		MO								
1-VA-1B-CV-CB C	F-4080		-	-	-					
	C-1	54								
		SA								
1-VA-1C-BFIV-RB B	F-40073 Sht. 2	BF	-	O	C	V-23	ST	Q	04.1.1	A
	E-2	54				V-23	ST-C	R	15.4A	
		AO								
1-VA-1C-BFV-RB B	F-40073 Sht. 3	BF	-	O	O		ST-O	Q	15.7	A
	D-4	18				V	2Y	15.7		
		MO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
1-VA-1D-BFIV-RB B	F-40073 Sht. 2 E-2	BF	--	O	C	V-23	ST	Q	04.1.1	A
		54				V-23	ST-C	R	15.4A	
		AO								
1-VA-1D-BFV-RB B	F-40073 Sht. 3 E-4	BF	--	O	OC		ST-O	Q	15.7	A
		18					ST-C	Q	15.7	
		MO					V	2Y	15.7	
1-VA-1E-BFV-RB B	F-40073 Sht. 3 D-5	BF	--	C	O		ST-O	Q	15.7	A
		18					V	2Y	15.7	
		MO								
1-VA-1F-BFV-RB B	F-40073 Sht. 3 E-6	BF	--	C	C		ST-O	Q	15.7	A
		18					ST-C	Q	15.7	
		MO					V	2Y	15.7	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
1-VA-1G-BFV-RB B	F-40073 Sht. 3 D-8	BF 18 MO	--	O	O	ST-O V	Q 2Y	15.7 15.7	A	
1-VA-1H-BFV-RB B	F-40073 Sht. 3 E-8	BF 18 MO	--	OC	OC	ST-O ST-C V	Q Q 2Y	15.7 15.7 15.7	A	
1-VA-1I-BFV-RB B	F-40073 Sht. 3 F-6	BF 30 MO	--	C	C	ST-C V	Q 2Y	15.7 15.7	A	

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 2 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
2-CS-P-2A 2-E21-C001A Core Spray/Class 2	D-2524 sh 2 C-1	OPT-07.2.4a Quarterly	N/A	Q PRR-04	N/A	Q	Q
2-CS-P-2B 2-E21-C001B Core Spray/Class 2	D-2524 sh 1 C-2	OPT-07.2.4b Quarterly	N/A	Q PRR-04	N/A	Q	Q
2-HPCI-P-2 2-E41-C001 High Pressure Coolant Injection Class 2	D-2523 sh 1 C-4	OPT-09.2 Quarterly	Q	Q PRR-02 PRR-04	N/A	Q	Q
2-RCIC-P-2 2-E51-C001 Reactor Core Isolation Cooling Class 2	D-2529 sh 1 B-4	OPT-10.1.1 Quarterly	Q	Q PRR-04	N/A	Q	Q
2-RHR-P-2A 2-E11-C002A Residual Heat Removal Class 2	D-2525 sh 1B B-6	OPT-08.2.2C Quarterly	N/A	Q	N/A	Q	Q
2-RHR-P-2B 2-E11-C002B Residual Heat Removal Class 2	D-2526 sh 2B A-5	OPT-08.2.2B Quarterly	N/A	Q	N/A	Q	Q

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SUMMARY LISTING - UNIT 2 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
2-RHR-P-2C 2-E11-C002C Residual Heat Removal Class 2	D-2525 sh 1B B-3	OPT-08.2.2C Quarterly	N/A	Q	N/A	Q	Q
2-RHR-P-2D 2-E11-C002D Residual Heat Removal Class 2	D-2526 sh 2B A-8	OPT-08.2.2B Quarterly	N/A	Q	N/A	Q	Q
2-RHRSW-P-2A 2-SW-C002A Service Water/Class 3	D-2537 sh 1 E-5	OPT-08.1.4A Quarterly	N/A	Q	N/A	Q	Q
2-RHRSW-P-2B 2-SW-C002B Service Water/Class 3	D-2537 sh 2 E-2	OPT-08.1.4B Quarterly	N/A	Q	N/A	Q	Q
2-RHRSW-P-2C 2-SW-C002C Service Water/Class 3	D-2537 sh 1 E-7	OPT-08.1.4A Quarterly	N/A	Q	N/A	Q	Q
2-RHRSW-P-2D 2-SW-C002D Service Water/Class 3	D-2537 sh 2 E-4	OPT-08.1.4B Quarterly	N/A	Q	N/A	Q	Q
2-SLC-P-2A 2-C41-C001A Standby Liquid Control/Class 2	D-2547 C-5	OPT-06.1 Quarterly	N/A	N/A	Q	Q	Q

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 2 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
2-SLC-P-2B 2-C41-C001B Standby Liquid Control/Class 2	D-2547 B-5	OPT-06.1 Quarterly	N/A	N/A	Q	Q	Q
2-SW-C-P-2A 2A Conventional Header SW Pump Service Water/Class 3	D-2041 sh 1 B-2	OPT-24.1-2 Quarterly	N/A	Q	N/A	Q	Q PRR-03
2-SW-C-P-2B 2B Conventional Header SW Pump Service Water/Class 3	D-2041 sh 1 B-5	OPT-24.1-2 Quarterly	N/A	Q	N/A	Q	Q PRR-03
2-SW-C-P-2C 2C Conventional Header SW Pump Service Water/Class 3	D-2041 sh 1 B-7	OPT-24.1-2 Quarterly	N/A	Q	N/A	Q	Q PRR-03
2-SW-N-P-2A 2A Nuclear Header SW Pump Service Water/Class 3	D-2041 sh 2 B-2	OPT-24.1-2 Quarterly	N/A	Q	N/A	Q	Q PRR-03
2-SW-N-P-2B 2B Nuclear Header SW Pump Service Water/Class 3	D-2041 sh 2 B-5	OPT-24.1-2 Quarterly	N/A	Q	N/A	Q	Q PRR-03
2-DGFO-1A Fuel Oil Transfer Pump 1A Diesel Generator Fuel Oil Non Class (Note 1)	D-2268 sh 1A B-3	OPT-12.4A Quarterly	N/A	N/A	N/A	Q Note 2	Q

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 2 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
2-DGFO-1B Fuel Oil Transfer Pump 1B Diesel Generator Fuel Oil Non Class (Note 1)	D-2268 sh 1A B-2	OPT-12.4A Quarterly	N/A	N/A	N/A	Q Note 2	Q
2-DGFO-2A Fuel Oil Transfer Pump 2A Diesel Generator Fuel Oil Non Class (Note 1)	D-2268 sh 1B B-3	OPT-12.4B Quarterly	N/A	N/A	N/A	Q Note 2	Q
2-DGFO-2B Fuel Oil Transfer Pump 2B Diesel Generator Fuel Oil Non Class (Note 1)	D-2268 sh 1B B-2	OPT-12.4B Quarterly	N/A	N/A	N/A	Q Note 2	Q
2-DGFO-3A Fuel Oil Transfer Pump 3A Diesel Generator Fuel Oil Non Class (Note 1)	D-2269 sh 2A B-3	OPT-12.4C Quarterly	N/A	N/A	N/A	Q Note 2	Q
2-DGFO-3B Fuel Oil Transfer Pump 3B Diesel Generator Fuel Oil Non Class (Note 1)	D-2269 sh 2A B-2	OPT-12.4C Quarterly	N/A	N/A	N/A	Q Note 2	Q
2-DGFO-4A Fuel Oil Transfer Pump 4A Diesel Generator Fuel Oil Non Class (Note 1)	D-2269 sh 2B B-3	OPT-12.4C Quarterly	N/A	N/A	N/A	Q Note 2	Q

**BRUNSWICK STEAM ELECTRIC PLANT INSERVICE TESTING PROGRAM  
SUMMARY LISTING - UNIT 2 PUMPS - REVISION 24**

IST Pump ID P&ID Pump ID System/Class	P&ID No. Coordinates	Surveillance Test Frequency	Parameters (Relief Requests)				
			Speed	Diff Pressure	Discharge Pressure	Flow Rate	Vibration
2-DGFO-4B Fuel Oil Transfer Pump 4B Diesel Generator Fuel Oil Non Class (Note 1)	D-2269 sh 2B B-2	OPT-12.4C Quarterly	N/A	N/A	N/A	Q Note 2	Q

**NOTES:**

- 1) This pump is designated ISI Non-Code Class, therefore relief from the Code testing requirements is not requested for areas of non-compliance.
- 2) The pump flow rate is determined to be greater than the minimum system requirement (10 gpm) by measuring the time required to fill the fuel oil day tank from the low level setpoint to the high level setpoint. The accuracy of the daytank level switches is plus or minus one inch.



## Unit 2 IST Valves

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F008 A/C	D-2521 sh. 1C E-6	EF .75 SA	-	O	C		CV-F R V 2Y	OMST- RIP10R OMST- RIP10R	A	
2-B21-F010A A/C	D-2521 sh. 1C C-5	CK 18 SA	-	OC	OC	RFJ-02 V-20	CV-C R CV-O SP LLRT R	20.3-054 20.3-054	A	
2-B21-F010B A/C	D-2521 sh. 1C B-5	CK 18 SA	-	OC	OC	RFJ-02 V-20	CV-C R CV-O SP LLRT R	20.3-055 20.3-055	A	
2-B21-F013A B/C	D-2521 sh. 1B E-6	RL 6 SA	-	C	O	RFJ-03 VRR-02	ST-O R R 5Y	11.1.2 19.5	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-B21-F013B	D-2521 sh. 1B	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	E-7	6 SA					R	5Y	19.5	
2-B21-F013C	D-2521 sh. 1B	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-6	6 SA					R	5Y	19.5	
2-B21-F013D	D-2521 sh. 1B	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-7	6 SA					R	5Y	19.5	
2-B21-F013E	D-2521 sh. 1B	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-7	6 SA					R	5Y	19.5	
2-B21-F013F	D-2521 sh. 1A	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	E-6	6 SA					R	5Y	19.5	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-B21-F013G	D-2521 sh. 1A	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	E-7	6 SA					R	5Y	19.5	
2-B21-F013H	D-2521 sh. 1A	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-6	6 SA					R	5Y	19.5	
2-B21-F013J	D-2521 sh. 1A	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-7	6 SA					R	5Y	19.5	
2-B21-F013K	D-2521 sh. 1A	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	E-8	6 SA					R	5Y	19.5	
2-B21-F013L	D-2521 sh. 1B	RL	--	C	O	RFJ-03 VRR-02	ST-O	R	11.1.2	A
B/C	C-8	6 SA					R	5Y	19.5	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F014A	D-2521 sh. 1B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV13R	A
A/C	E-4	.75					V	2Y	0MST- EFCV13R	
		SA								
2-B21-F014B	D-2521 sh. 1B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV13R	A
A/C	E-4	.75					V	2Y	0MST- EFCV13R	
		SA								
2-B21-F014C	D-2521 sh. 1B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV16R	A
A/C	E-4	.75					V	2Y	0MST- EFCV16R	
		SA								
2-B21-F014D	D-2521 sh. 1B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV16R	A
A/C	D-4	.75					V	2Y	0MST- EFCV16R	
		SA								
2-B21-F014E	D-2521 sh. 1B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV13R	A
A/C	B-4	.75					V	2Y	0MST- EFCV13R	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F014F A/C	D-2521 sh. 1B B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
2-B21-F014G A/C	D-2521 sh. 1B B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
2-B21-F014H A/C	D-2521 sh. 1B A-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
2-B21-F014J A/C	D-2521 sh. 1A D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
2-B21-F014K A/C	D-2521 sh. 1A D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F014L A/C	D-2521 sh. 1A D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
2-B21-F014M A/C	D-2521 sh. 1A D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A
2-B21-F014N A/C	D-2521 sh. 1A B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
2-B21-F014P A/C	D-2521 sh. 1A B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV13R OMST- EFCV13R	A
2-B21-F014R A/C	D-2521 sh. 1A B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV16R OMST- EFCV16R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F014S A/C	D-2521 sh. 1A B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV16R 0MST- EFCV16R	A
2-B21-F016 A	D-2521 sh. 1B D-5	GA 3 MO	--	O	C		ST-C LLRT V	Q PB 2Y	25.4 20.3-58A 25.4	A
2-B21-F019 A	D-2521 sh. 1B D-3	GA 3 MO	--	O	C		ST-C LLRT V	Q PB 2Y	25.4 20.3-58B 25.4	A
2-B21-F022A A	D-2521 sh. 1B E-4	GL 24 AO	C	O	C	CSJ-01 V-21	ST-P ST-C LLRT V	Q C R 2Y	40.2.8 25.1 20.3A.1 25.1	A
2-B21-F022B A	D-2521 sh. 1B B-5	GL 24 AO	C	O	C	CSJ-01 V-21	ST-P ST-C LLRT V	Q C R 2Y	40.2.8 25.1 20.3A.2 25.1	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-B21-F022C	D-2521 sh. 1A	GL	C	O	C		ST-P	Q	40.2.8	A
A	E-5	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.1	
							V	2Y	25.1	
2-B21-F022D	D-2521 sh. 1A	GL	C	O	C		ST-P	Q	40.2.8	A
A	C-5	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.4	
							V	2Y	25.1	
2-B21-F024A	D-7007 sh. 1	CK	--	OC	OC		CV-C	C	31.1	A
C	C-4	1				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F024B	DN7007 SH. 1	CK	--	OC	OC		CV-C	C	31.1	A
C	C-4	1				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F024C	D-7007 sh. 1	CK	--	OC	OC		CV-C	C	31.1	A
C	C-6	1				RFJ-06	CV-O	R	31.1	
		SA								



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F024D	D-7007 sh. 1	CK	-	OC	OC		CV-C	C	31.1	A
C	C-5	1				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F028A	D-2521 sh. 1B	GL	C	O	C		ST-P	Q	40.2.8	A
A	E-3	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.1	
							V	2Y	25.1	
2-B21-F028B	D-2521 sh. 1B	GL	C	O	C		ST-P	Q	40.2.8	A
A	B-3	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.2	
							V	2Y	25.1	
2-B21-F028C	D-2521 sh. 1A	GL	C	O	C		ST-P	Q	40.2.8	A
A	E-3	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.3	
							V	2Y	25.1	
2-B21-F028D	D-2521 sh. 1A	GL	C	O	C		ST-P	Q	40.2.8	A
A	C-3	24				CSJ-01	ST-C	C	25.1	
		AO				V-21	LLRT	R	20.3A.4	
							V	2Y	25.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F029A	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A
C	B-4	1				CSJ-02	CV-O	C	31.9	
		SA								
2-B21-F029B	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A
C	B-3	1				CSJ-02	CV-O	C	31.9	
		SA								
2-B21-F029C	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A
C	B-7	1				CSJ-02	CV-O	C	31.9	
		SA								
2-B21-F029D	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A
C	B-6	1				CSJ-02	CV-O	C	31.9	
		SA								
2-B21-F032A	D-2521 sh. 1C	SC	--	O	C	CSJ-03	ST-C	C	25.1	A
A/C	C-7	18					LLRT	PB	20.3-056	
		MO					V	2Y	25.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F032B	D-2521 sh. 1C	SC	--	O	C	CSJ-03	ST-C	C	25.1	A
A/C	B-7	18					LLRT	PB	20.3-057	
		MO					V	2Y	25.1	
2-B21-F036A	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-4	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036B	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-2	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036D	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-B21-F036E C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036F C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036G C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036H C	D-7007 sh. 1	CK		OC	OC	RFJ-06	CV-C	R	20.8	A
	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036J C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-B21-F036K	D-7007 sh. 1	CK		OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-8	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F036L	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
C	E-1	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-F037A	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-6	10				RFJ-07	CV-O	R	11.1.3	
		SA								
2-B21-F037B	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-6	10				RFJ-07	CV-O	R	11.1.3	
		SA								
2-B21-F037C	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C	R	11.1.3	A
C	B-6	10				RFJ-07	CV-O	R	11.1.3	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
2-B21-F037D C	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C R	11.1.3	A
	B-7	10				RFJ-07	CV-O R	11.1.3	
		SA							
2-B21-F037E C	D-2521 sh. 1A	CK		OC	OC	RFJ-07	CV-C R	11.1.3	A
	B-7	10				RFJ-07	CV-O R	11.1.3	
		SA							
2-B21-F037F C	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C R	11.1.3	A
	B-7	10				RFJ-07	CV-O R	11.1.3	
		SA							
2-B21-F037G C	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C R	11.1.3	A
	B-7	10				RFJ-07	CV-O R	11.1.3	
		SA							
2-B21-F037H C	D-2521 sh. 1A	CK	--	OC	OC	RFJ-07	CV-C R	11.1.3	A
	B-7	10				RFJ-07	CV-O R	11.1.3	
		SA							

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F037J C	D-2521 sh. 1A B-8	CK 10 SA	--	OC	OC	RFJ-07 RFJ-07	CV-C CV-O	R R	11.1.3 11.1.3	A
2-B21-F037K C	D-2521 sh. 1A B-8	CK 10 SA	--	OC	OC	RFJ-07 RFJ-07	CV-C CV-O	R R	11.1.3 11.1.3	A
2-B21-F037L C	D-2521 sh. 1A B-8	CK 10 SA	--	OC	OC	RFJ-07 RFJ-07	CV-C CV-O	R R	11.1.3 11.1.3	A
2-B21-F040 A/C	D-2522 sh. 2A F-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV10R OMST- EFCV10R	A
2-B21-F042A A/C	D-2522 sh. 2A D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F042B	D-2520 sh. 3A	EF	--	O	C	RFJ-01	CV-F	R	0MST	A
A/C	E-6	.75					V	2Y	EFCV19R	
		SA							0MST- EFCV19R	
2-B21-F044A	D-2522 sh. 2A	EF	--	O	C	RFJ-01	CV-F	R	0MST-	A
A/C	D-4	.75					V	2Y	EFCV18R	
		SA							0MST- EFCV18R	
2-B21-F044B	D-2520 sh. 3A	EF	--	O	C	RFJ-01	CV-F	R	0MST-	A
A/C	E-6	.75					V	2Y	EFCV19R	
		SA							0MST- EFCV19R	
2-B21-F046A	D-2522 sh. 2A	EF	--	O	C	RFJ-01	CV-F	R	0MST-	A
A/C	D-4	.75					V	2Y	EFCV18R	
		SA							0MST- EFCV18R	
2-B21-F046B	D-2520 sh. 3A	EF	--	O	C	RFJ-01	CV-F	R	0MST-	A
A/C	E-6	.75					V	2Y	EFCV19R	
		SA							0MST- EFCV19R	



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F047C A/C	D-2522 sh. 2A B-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A
2-B21-F047D A/C	D-2520 sh. 3A D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
2-B21-F048A A/C	D-2522 sh. 2A C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A
2-B21-F048B A/C	D-2520 sh. 3A E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
2-B21-F049C A/C	D-2522 sh. 2A C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV18R OMST- EFCV18R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F049D A/C	D-2520 sh. 3A D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV19R OMST- EFCV19R	A
2-B21-F050A A/C	D-2522 sh. 2B D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F050B A/C	D-2520 sh. 3B D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
2-B21-F050C A/C	D-2522 sh. 2B D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F050D A/C	D-2520 sh. 3B D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-B21-F052A A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
2-B21-F052B A/C	D-2520 sh. 3B E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
2-B21-F052C A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
2-B21-F052D A/C	D-2520 sh. 3B F-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
2-B21-F054 A/C	D-2522 sh. 2B C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F056 A/C	D-2522 sh. 2B C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F058A A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F058B A/C	D-2520 sh. 3B D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
2-B21-F058C A/C	D-2522 sh. 2B D-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F058D A/C	D-2520 sh. 3B D-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F058E	D-2522 sh. 2B	EF	-	O	C	RFJ-01	CV-F	R	0MST- EFCV12R	A
A/C	D-4	.75 SA					V	2Y	0MST- EFCV12R	
2-B21-F058F	D-2520 sh. 3B	EF	-	O	C	RFJ-01	CV-F	R	0MST- EFCV11R	A
A/C	D-5	.75 SA					V	2Y	0MST- EFCV11R	
2-B21-F058G	D-2522 sh. 2B	EF	-	O	C	RFJ-01	CV-F	R	0MST- EFCV12R	A
A/C	D-4	.75 SA					V	2Y	0MST- EFCV12R	
2-B21-F058H	D-2520 sh. 3B	EF	-	O	C	RFJ-01	CV-F	R	0MST- EFCV11R	A
A/C	E-5	.75 SA					V	2Y	0MST- EFCV11R	
2-B21-F058L	D-2522 sh. 2B	EF	-	O	C	RFJ-01	CV-F	R	0MST- EFCV12R	A
A/C	D-4	.75 SA					V	2Y	0MST- EFCV12R	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F058M A/C	D-2520 sh. 3B E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
2-B21-F058N A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F058P A/C	D-2520 sh. 3B E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A
2-B21-F058R A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV12R OMST- EFCV12R	A
2-B21-F058S A/C	D-2520 sh. 3B E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV11R OMST- EFCV11R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-F058T A/C	D-2522 sh. 2B E-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV12R 0MST- EFCV12R	A
2-B21-F058U A/C	D-2520 sh. 3B E-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
2-B21-F060 A/C	D-2520 sh. 3B C-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV11R 0MST- EFCV11R	A
2-B21-IV-2149 A/C	D-2520 sh. 3A D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV10R 0MST- EFCV10R	A
2-B21-IV-2196 A/C	D-2522 sh. 2B C-4	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-IV-2455 A/C	D-2522 sh. 2A F-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- RIP10R 0MST- RIP10R	A
2-B21-IV-2456 A/C	D-2520 sh. 3A F-5	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- RIP10R 0MST- RIP10R	A
2-B21-V27A C	D-7007 sh. 1 E-5	CK .75 SA	--	OC	OC	RFJ-06 RFJ-06	CV-C CV-O	R R	20.8 31.1	A
2-B21-V27B C	D-7007 sh. 1 E-2	CK .75 SA	--	OC	OC	RFJ-06 RFJ-06	CV-C CV-O	R R	20.8 31.1	A
2-B21-V27C C	D-7007 sh. 1 E-4	CK .75 SA	--	OC	OC	RFJ-06 RFJ-06	CV-C CV-O	R R	20.8 31.1	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-B21-V27D C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27E C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-3	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27F C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27G C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-6	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27H C	D-7007 sh. 1	CK	--	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-B21-V27J C	D-7007 sh. 1	CK	-	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-5	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27K C	D-7007 sh. 1	CK	-	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-8	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V27L C	D-7007 sh. 1	CK	-	OC	OC	RFJ-06	CV-C	R	20.8	A
	E-2	.75				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V28A C	D-7007 sh. 1	CK	-	OC	OC	VC-09	CV-C	C	31.1	A
	C-5	1				RFJ-06	CV-O	R	31.1	
		SA								
2-B21-V28B C	D-7007 sh. 1	CK	-	OC	OC	VC-09	CV-C	C	31.1	A
	C-4	1				RFJ-06	CV-O	R	31.1	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests			Procedures	Active/Passive
			fail_	normal	safety		Frequency				
2-B21-V28C	D-7007 sh. 1	CK	--	OC	OC	VC-09	CV-C	C	31.1	A	
C	C-6	1				RFJ-06	CV-O	R	31.1		
		SA									
2-B21-V28D	D-7007 sh. 1	CK	--	OC	OC	VC-09	CV-C	C	31.1	A	
C	C-5	1				RFJ-06	CV-O	R	31.1		
		SA									
2-B21-V29A	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A	
C	B-4	1				CSJ-02	CV-O	C	31.9		
		SA									
2-B21-V29B	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A	
C	B-3	1				CSJ-02	CV-O	C	31.9		
		SA									
2-B21-V29C	D-7206 sh. 4	CK	--	OC	OC		CV-C	R	95	A	
C	B-6	1				CSJ-02	CV-O	C	31.9		
		SA									

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B21-V29D C	D-7206 sh. 4 B-5	CK 1 SA	-	OC	OC	CSJ-02	CV-C CV-O	R C	95 31.9	A
2-B32-F005A A/C	D-2518 sh. 1A C-2	EF .75 SA	-	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F005B A/C	D-2548 sh. 2B C-7	EF .75 SA	-	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F006A A/C	D-2518 sh. 1A C-2	EF .75 SA	-	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F006B A/C	D-2548 sh. 2B C-7	EF .75 SA	-	O	OC	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-B32-F019	D-2518 sh. 1A	GL	C	O	C		ST-C	Q	3.1.22	A
A	D-7	.75					F	Q	3.1.22	
		AO					LLRT	PB	20.3-060	
							V	2Y	3.1.22	
2-B32-F020	D-2518 sh. 1A	GL	C	O	C		ST-C	Q	3.1.22	A
A	D-3	.75					F	Q	3.1.22	
		AO					LLRT	PB	20.3-060	
							V	2Y	3.1.22	
2-B32-F031A	D-2518 sh. 1A	GA	--	O	C	CSJ-04	ST-C	C	3.1.21	A
B	B-5	28					V	2Y	3.1.21	
		MO								
2-B32-F031B	D-2548 sh. 2B	GA	--	O	C	CSJ-04	ST-C	C	3.1.21	A
B	B-4	28					V	2Y	3.1.21	
		MO								
2-B32-F032A	D-2518 sh. 1A	GA	--	O	C	CSJ-05	ST-C	C	3.1.21	A
B	B-5	4					V	2Y	3.1.21	
		MO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
2-B32-F032B B	D-2548 sh. 2B B-4	GA 4 MO	--	O	C	CSJ-05	ST-C V	C 2Y	3.1.21 3.1.21	A
2-B32-F039A A/C	D-2518 sh. 1A B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F039B A/C	D-2548 sh. 2B B-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F039C A/C	D-2518 sh. 1A B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A
2-B32-F039D A/C	D-2548 sh. 2B C-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV15R 0MST- EFCV15R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B32-F041A	D-2548 sh. 2B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
A/C	C-7	.75					V	2Y	0MST- EFCV15R	
		SA								
2-B32-F041B	D-2548 sh. 2B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
A/C	C-8	.75					V	2Y	0MST- EFCV15R	
		SA								
2-B32-F041C	D-2518 sh. 1A	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
A/C	C-2	.75					V	2Y	0MST- EFCV15R	
		SA								
2-B32-F041D	D-2518 sh. 1A	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
A/C	C-2	.75					V	2Y	0MST- EFCV15R	
		SA								
2-B32-F042A	D-2548 sh. 2B	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV15R	A
A/C	C-7	.75					V	2Y	0MST- EFCV15R	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B32-F042B A/C	D-2548 sh. 2B C-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
2-B32-F042C A/C	D-2518 sh. 1A C-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
2-B32-F042D A/C	D-2518 sh. 1A C-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
2-B32-F058A A/C	D-2518 sh. 1A B-2	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A
2-B32-F058B A/C	D-2548 sh. 2B B-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	OMST- EFCV15R OMST- EFCV15R	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-B32-V22 A	D-2518 sh. 1A E-3	GL .75 MO	--	O	C	CSJ-06	ST-C V LLRT	C 2Y PB	3.1.21 3.1.21 20.3-59A	A
2-B32-V24 A/C	D-2518 sh. 1A E-3	CK .75 SA	--	O	C	RFJ-12	CV-C LLRT	R R	20.3-061 20.3-061	A
2-B32-V30 A	D-2548 sh. 2B E-6	GL .75 MO	--	O	C	CSJ-06	ST-C V LLRT	C 2Y PB	3.1.21 3.1.21 20.3-59B	A
2-B32-V32 A/C	D-2548 sh. 2B E-6	CK .75 SA	--	O	C	RFJ-12	CV-C LLRT	R R	20.3-062 20.3-062	A
2-C12-114 C	D-2517 sh. 2A F-4	CK .75 SA	--	C	O	RFJ-09 V-01	CV-O	SP	14.2.1	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-C12-115 C	D-2517 sh. 2A D-2	CK .5 SA	-	O	C	RFJ-10 V-01	CV-C	C	14.1.2a	A
2-C12-132 C	D-2517 sh. 2A C-4	RD .5 SA	-	C	C	V-01			NONE	P
2-C12-138 C	D-2517 sh. 2A D-5	CK .5 SA	-	O	C	V-01 V-02	CV-C	SP	14.2.1	A
2-C12-CV-126 B	D-2517 sh. 2A D-5	GA .5 AO	O	C	O	RFJ-11 RFJ-11 V-01	ST-O F	SP SP	14.2.1 14.2.1	A
2-C12-CV-127 B	D-2517 sh. 2A E-5	GA .75 AO	O	C	O	RFJ-11 RFJ-11 V-01	ST-O F	SP SP	14.2.1 14.2.1	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-C12-CV-F010	D-2517 sh. 2B	GA	C	O	C		ST-C	Q	14.0	A
B	D-4	1					F	Q	14.0	
		AO					V	2Y	14.0	
2-C12-CV-F011	D-2517 sh. 2B	GA	C	O	C		ST-C	Q	14.0	A
B	B-4	2					F	Q	14.0	
		AO					V	2Y	14.0	
2-C12-V139	D-2517 sh. 2B	GA	C	O	C		ST-C	Q	14.0	A
B	D-4	1					F	Q	14.0	
		AO					V	2Y	14.0	
2-C12-V140	D-2517 sh. 2B	GA	C	O	C		ST-C	Q	14.0	A
B	B-4	2					F	Q	14.0	
		AO					V	2Y	14.0	
2-C41-F004A	D-2547	GA	--	C	O		D	2Y	6.2.3	A
D	C-7	1.5								
		XP								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-C41-F004B D	D-2547 B-7	GA 1.5 XP	--	C	O		D	2Y	6.2.3	A
2-C41-F006 A/C	D-2547 C-7	CK 1.5 SA	--	C	OC	RFJ-14 RFJ-14	CV-C CV-O L-XI	R R R	20.2-063 6.2.3 20.2-063	A
2-C41-F007 A/C	D-2547 B-8	CK 1.5 SA	--	C	OC	RFJ-14 RFJ-14	CV-C CV-O L-XI	R R R	20.2-064 6.2.3 20.2-064	A
2-C41-F008 B	D-2547 B-8	GA 1.5 MA	--	O	O		V	2Y	6.2.3	P
2-C41-F029A C	D-2547 D-5	RL 1.5 SA	--	C	O	V-07	R	R	11.0	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-C41-F029B C	D-2547 A-5	RL 1.5 SA	--	C	O	V-07	R	R	11.0	A
2-C41-F033A C	D-2547 C-6	CK 1.5 SA	--	C	OC		CV-C CV-O	Q Q	6.1 6.1	A
2-C41-F033B C	D-2547 B-6	CK 1.5 SA	--	C	OC		CV-C CV-O	Q Q	6.1 6.1	A
2-C51-J004A-BAL A	F-7081	BL .37 SO	C	C	C		ST-C F LLRT V	Q Q 2Y 2Y	1.2.2A 1.2.2A 20.3-179 20.3-179	A
2-C51-J004A-SHE D	F-7081	SH .37 XP	--	O	C		D	2Y	0-MST- TIP11R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-C51-J004B-BAL A	F-7081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-180		
						V	2Y	20.3-180		
2-C51-J004B-SHE D	F-7081	SH	--	O	C	D	2Y	0-MST- TIP11R	A	
		.37								
		XP								
2-C51-J004C-BAL A	F-7081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-181		
						V	2Y	20.3-181		
2-C51-J004C-SHE D	F-7081	SH	--	O	C	D	2Y	0-MST- TIP11R	A	
		.37								
		XP								
2-C51-J004D-BAL A	F-7081	BL	C	C	C	ST-C	Q	1.2.2A	A	
		.37				F	Q	1.2.2A		
		SO				LLRT	2Y	20.3-182		
						V	2Y	20.3-182		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency		Procedures	Active/Passive
			fail_	normal	safety						
2-C51-J004D-SHE D	F-7081	SH .37 XP	--	O	C		D	2Y	0-MST- TIP11R	A	
2-C51-TIP-CHV A/C	F-7081	CK .37 SA	--	O	C	RFJ-08	CV-C LLRT	R R	20.3-183 20.3-183	A	
2-CAC-CV-2713 B	D-2560 sh. 2A D-6	DA .75 AO	C	C	OC		ST-O ST-C V F	Q 2Y 2Y Q	16.3 16.3 16.3 16.3	A	
2-CAC-CV-2714 B	D-2560 sh. 2A D-5	DA .75 AO	C	C	OC		ST-O ST-C V F	Q Q 2Y Q	16.3 16.3 16.3 16.3	A	
2-CAC-CV-2715 B	D-2560 sh. 2A B-5	DA .75 AO	C	C	OC		ST-O ST-C V F	Q Q 2Y Q	16.3 16.3 16.3 16.3	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-CV-2716	D-2560 sh. 2A	DA	C	C	OC		ST-O	Q	16.3	A
B	B-5	.75					ST-C	Q	16.3	
		AO					V	2Y	16.3	
							F	Q	16.3	
2-CAC-CV-2889	D-2560 sh. 2A	DA	O	C	O	V-04	ST-O	Q	16.3	A
B	E-3	1					F	Q	16.3	
		AO					V	2Y	16.3	
2-CAC-CV-2890	D-2560 sh. 2A	DA	O	C	O	V-04	ST-O	Q	16.3	A
B	E-3	1					F	Q	16.3	
		AO					V	2Y	16.3	
2-CAC-PSV1	D-2560 sh. 2A	RL	--	C	O	V -02	R	5Y	11.0	A
C	D-5	.5								
		SA								
2-CAC-PSV2	D-2560 sh. 2A	RL	--	C	O	V -02	R	5Y	11.0	A
C	D-6	.5								
		SA								



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
2-CAC-PSV3 C	D-2560 sh. 2A F-5	RL 1.5 SA	--	C	O	V -02	R 5Y	11.0	A
2-CAC-PSV4 C	D-2560 sh. 2A C-6	RL .5 SA	--	C	O	V -02	R 5Y	11.0	A
2-CAC-PSV5 C	D-2560 sh. 2A C-5	RL .5 SA	--	C	O	V -02	R 5Y	11.0	A
2-CAC-SV-1200B A	D-7218 D-4	GL 1 SO	C	O	OC	ST-O ST-C F LLRT V	Q Q Q PB 2Y	16.0-2 16.0-2 16.0-2 20.3-073 20.4	A
2-CAC-SV-1205E B	D-7326 sh. 2 B-3	GL .75 SO	C	O	OC	ST-O ST-C F V	Q Q Q 2Y	16.0-2 16.0-2 16.0-2 20.4	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-SV-1209A	D-7326 sh. 2	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-3	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1209B	D-7326 sh. 2	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-3	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1209D	D-2515 sh. 1A	GL	O	O	C	ST-C	Q	16.0-2	A	
B	D-3	.75				F	Q	16.0-2		
		SO				V	2Y	20.4		
2-CAC-SV-1211E	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A	
A	B-6	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
						LLRT	PB	20.3-089		
2-CAC-SV-1211F	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A	
A	C-6	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
						LLRT	PB	20.3-083		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-SV-1213A	D-7326 sh. 2	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-3	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1215E	D-7326 sh. 2	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-4	.75				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1216B	D-2515 sh. 1C	GL	O	O	C	ST-C	Q	16.0-2	A	
B	D-4	.75				F	Q	16.0-2		
		SO				V	2Y	20.4		
2-CAC-SV-1218A	D-7326 sh. 1	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	A-6	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1218C	D-2515 sh. 1A	GL	O	O	C	ST-C	Q	16.0-2	A	
B	B-5	1				F	Q	16.0-2		
		SO				V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-CAC-SV-1219B	D-2515 sh. 1A	GL	O	O	C					
B	C-7	1				ST-C	Q	16.0-2		A
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1219C	D-2515 sh. 1A	GL	O	O	C					
B	B-3	1				ST-C	Q	16.0-2		A
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1225B	D-7218	GL	C	O	OC					
A	B-3	1.2				ST-O	Q	16.0-2		A
		SO				ST-C	Q	16.0-2		
						F	Q	16.0-2		
						V	2Y	20.4		
						LLRT	PB	20.3-082		
2-CAC-SV-1225C	D-2515 sh. 1A	GL	O	O	C					
B	D-5	.75				ST-C	Q	16.0-2		A
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1227A	D-7326 sh. 1	GL	C	O	OC					
B	B-7	.75				ST-O	Q	16.0-2		A
		SO				ST-C	Q	16.0-2		
						F	Q	16.0-2		
						V	2Y	20.4		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-CAC-SV-1227B	D-7326 sh. 1	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-7	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1227C	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	C-4	1.2				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
						LLRT	PB	20.3-77B		
2-CAC-SV-1227E	D-7326 sh. 1	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-6	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-1230B	D-2515 sh. 1C	GL	O	O	C	ST-C	Q	16.0-2	A	
B	E-5	.75				F	Q	16.0-2		
		SO				V	2Y	20.4		
2-CAC-SV-1231B	D-7326 sh. 1	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	A-6	1				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
2-CAC-SV-1260	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A
A	C-3	1				ST-C	Q	16.0-2	
		SO				F	Q	16.0-2	
						V	2Y	20.4	
						LLRT	PB	20.3-079	
2-CAC-SV-1261	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A
A	D-3	1				ST-C	Q	16.0-2	
		SO				F	Q	16.0-2	
						V	2Y	20.4	
						LLRT	PB	20.3-074	
2-CAC-SV-1262	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A
A	C-6	1				ST-C	Q	16.0-2	
		SO				F	Q	16.0-2	
						V	2Y	20.4	
						LLRT	PB	20.3-084	
2-CAC-SV-3439	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A
A	B-7	1				ST-C	Q	16.0-2	
		SO				F	Q	16.0-2	
						V	2Y	20.4	
						LLRT	PB	20.3-090	
2-CAC-SV-3440	D-7218	GL	C	O	OC	ST-O	Q	16.0-2	A
A	B-2	1.2				ST-C	Q	16.0-2	
		SO				F	Q	16.0-2	
						LLRT	PB	20.3-081	
						V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-SV-4344	D-2515 sh. 1A	GL	O	O	C		ST-C	Q	16.0-2	A
B	A-3	.5					F	Q	16.0-2	
		SO					V	2Y	20.4	
2-CAC-SV-4345	D-2515 sh. 1A	GL	O	O	C		ST-C	Q	16.0-2	A
B	A-6	.5					F	Q	16.0-2	
		SO					V	2Y	20.4	
2-CAC-SV-4409-1	D-7326 sh. 2	GL	C	OC	OC		ST-O	Q	16.0-2	A
B	B-4	.5					ST-C	Q	16.0-2	
		SO					F	Q	16.0-2	
							V	2Y	20.4	
2-CAC-SV-4409-2	D-7326 sh. 2	GL	C	OC	OC		ST-O	Q	16.0-2	A
B	B-5	.5					ST-C	Q	16.0-2	
		SO					F	Q	16.0-2	
							V	2Y	20.4	
2-CAC-SV-4409-3	D-7326 sh. 2	GL	C	OC	OC		ST-O	Q	16.0-2	A
B	B-5	.5					ST-C	Q	16.0-2	
		SO					F	Q	16.0-2	
							V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-SV-4409-4	D-7326 sh. 2	GL	C	OC	OC	ST-O	Q	16.0-2	A	
B	B-5	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-4410-1	D-7326 sh. 1	GL	C	OC	OC	ST-O	Q	16.0-2	A	
B	B-5	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-4410-2	D-7326 sh. 1	GL	C	OC	OC	ST-O	Q	16.0-2	A	
B	B-5	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-4410-3	D-7326 sh. 1	GL	C	OC	OC	ST-O	Q	16.0-2	A	
B	B-5	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-4410-4	D-7326 sh. 1	GL	C	OC	OC	ST-O	Q	16.0-2	A	
B	B-5	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-SV-4540	D-7326 sh. 2	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	B-4	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-SV-4541	D-7326 sh. 1	GL	C	O	OC	ST-O	Q	16.0-2	A	
B	A-6	.5				ST-C	Q	16.0-2		
		SO				F	Q	16.0-2		
						V	2Y	20.4		
2-CAC-V10	D-2515 sh. 1A	BF	C	C	C	ST-C	Q	16.1.1	A	
A	D-6	18				F	Q	16.1.1		
		AO				LLRT	PB	20.3-69E		
						V	2Y	16.1.1		
2-CAC-V15	D-2515 sh. 1B	BF	C	C	C	ST-C	Q	16.1.1	A	
A	D-7	24				F	Q	16.1.1		
		AO				LLRT		20.3-67C		
						V	2Y	16.1.1		
2-CAC-V16	D-2515 sh. 1B	BF	C	C	OC	ST-O	Q	2.3.2	A	
A	A-6	20				ST-C	Q	2.3.2		
		AO				F	Q	2.3.2		
						LLRT	PB	20.3-67D		
						V	2Y	2.3.2		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-CAC-V160 A	D-2515 sh. 1B C-8	GL	C	C	OC	ST-O	Q	16.1.1	A	
		1				ST-C	Q	16.1.1		
	SO				F	Q	16.1.1			
					LLRT	2Y	20.3-67D			
					V	2Y	20.3-67D			
2-CAC-V161 A	D-2515 sh. 1B F-7	GL	C	C	OC	ST-O	Q	16.1.1	A	
		1				ST-C	Q	16.1.1		
	SO				F	Q	16.1.1			
					LLRT	2Y	20.3-67E			
					V	2Y	20.3-67E			
2-CAC-V162 A	D-2515 sh. 1B C-7	GL	C	C	OC	ST-O	Q	16.1.1	A	
		1				ST-C	Q	16.1.1		
	SO				F	Q	16.1.1			
					LLRT	2Y	20.3-67D			
					V	2Y	20.3-67D			
2-CAC-V163 A	D-2515 sh. 1B E-7	GL	C	C	OC	ST-O	Q	16.1.1	A	
		1				ST-C	Q	16.1.1		
	SO				F	Q	16.1.1			
					LLRT	2Y	20.3-67E			
					V	2Y	20.3-67E			
2-CAC-V17 A	D-2515 sh. 1B A-7	BF	C	C	OC	ST-O	Q	2.3.2	A	
		20				ST-C	Q	2.3.2		
	AO				F	Q	2.3.2			
					LLRT	PB	20.3-67D			
					V	2Y	2.3.2			

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
							Frequency		
2-CAC-V172	D-2515 sh. 1A	GL	C	C	OC	ST-O	Q	16.1.1	A
A	C-7	2				ST-C	Q	16.1.1	
		SO				F	Q	16.1.1	
						LLRT	PB	20.3-68C	
						V	2Y	20.4	
2-CAC-V216	D-2515 sh. 1B	BF	C	C	OC	ST-O	Q	16.1.1	A
B	F-2	8				ST-C	Q	16.1.1	
		AO				F	Q	16.1.1	
						V	2Y	16.1.1	
						LLRT	PB	20.3-68D	
2-CAC-V22	D-2515 sh. 1A	GA	--	C	OC	ST-O	Q	16.1.1	A
A	C-8	2				ST-C	Q	16.1.1	
		MO				LLRT	PB	20.3-68D	
						V	2Y	16.1.1	
2-CAC-V23	D-2515 sh. 1A	GA	--	C	OC	ST-O	Q	16.1.1	A
A	E-6	2				ST-C	Q	16.1.1	
		MO				LLRT	PB	20.3-69E	
						V	2Y	16.1.1	
2-CAC-V4	D-2515 sh. 1B	BF	C	O	C	ST-C	Q	16.1.1	A
A	B-5	8				F	Q	16.1.1	
		AO				LLRT	PB	20.3-67C	
						V	2Y	16.1.1	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-CAC-V49	D-2515 sh. 1A	GL	C	C	OC	ST-C	Q	16.1.1	A	
A	F-5	3				ST-O	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-72A		
						V	2Y	20.4		
2-CAC-V5	D-2515 sh. 1B	BF	C	C	C	ST-C	Q	16.1.1	A	
A	B-6	20				F	Q	16.1.1		
		AO				LLRT	PB	20.3-67D		
						V	2Y	16.1.1		
2-CAC-V50	D-2515 sh. 1A	GL	C	C	OC	ST-C	Q	16.1.1	A	
A	F-5	3				ST-O	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-72B		
						V	2Y	20.4		
2-CAC-V55	D-2515 sh. 1B	GL	C	C	OC	ST-O	Q	16.1.1	A	
A	D-6	1				ST-C	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-67B		
						V	2Y	20.4		
2-CAC-V56	D-2515 sh. 1B	GL	C	C	OC	ST-O	Q	16.1.1	A	
A	C-6	1				ST-C	Q	16.1.1		
		SO				F	Q	16.1.1		
						LLRT	PB	20.3-67B		
						V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests  Frequency	Procedures	Active/Passive
			fail_	normal	safety				
2-CAC-V59 C	D-25015 sh. 1B D-5	RL .75 SA	--	C	O		R 5Y	11.0	A
2-CAC-V6 A	D-2515 sh. 1A C-3	BF 18 AO	C	C	C		ST-C Q F Q LLRT PB V 2Y	16.1.1 16.1.1 20.3-67E 16.1.1	A
2-CAC-V7 A	D-2515 sh. 1A B-7	BF 20 AO	C	C	OC		ST-O Q ST-C Q F Q LLRT PB V 2Y	16.1.1 16.1.1 16.1.1 20.3-68C 16.1.1	A
2-CAC-V8 A	D-2515 sh. 1A B-8	BF 20 AO	C	C	C		ST-C Q F Q LLRT PB V 2Y	16.1.1 16.1.1 20.3-68D 16.1.1	A
2-CAC-V9 A	D-2515 sh. 1A D-5	BF 18 AO	C	C	OC		ST-C Q ST-O Q F Q LLRT PB V 2Y	16.1.1 16.1.1 16.1.1 20.3-69D 16.1.1	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>			<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>			
2-CAC-X18A	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A	
A/C	B-6	18							CAC500R		
		SA				V-05	L-M	R	20.6		
							V	2Y	2.3.1		
2-CAC-X18B	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A	
A/C	B-6	18							CAC500R		
		SA				V-05	L-M	R	20.6		
							V	2Y	2.3.1		
2-CAC-X18C	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A	
A/C	B-6	18							CAC500R		
		SA				V-05	L-M	R	20.6		
							V	2Y	2.3.1		
2-CAC-X18D	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A	
A/C	B-6	18							CAC500R		
		SA				V-05	L-M	R	20.6		
							V	2Y	2.3.1		
2-CAC-X18E	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A	
A/C	B-6	18							CAC500R		
		SA				V-05	L-M	R	20.6		
							V	2Y	2.3.1		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-CAC-X18F	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A
A/C	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
2-CAC-X18G	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A
A/C	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
2-CAC-X18H	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A
A/C	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
2-CAC-X18I	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A
A/C	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	
2-CAC-X18J	D-2515 sh. 1A	VB	--	C	OC	V-05	R	R	0MST	A
A/C	B-6	18				V-05	L-M	R	CAC500R	
		SA					V	2Y	20.6 2.3.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-CAC-X20A	D-2515 sh. 1B	VB	-	C	OC	VRR-11	R	R	0MST	A
A/C	A-6	20					LLRT	PB	CAC501R	
		SA					CV-O	Q	20.3-67C	
							CV-C	Q	2.3.2	
2-CAC-X20B	D-2515 sh. 1B	VB	-	C	OC	VRR-11	R	R	0MST	A
A/C	A-8	20					LLRT	PB	CAC501R	
		SA					CV-O	Q	20.3-67C	
							CV-C	Q	2.3.2	
2-DG1-SV-6552-1	D-2265 SH. 1A	GA	C	C	OC	V-15	ST-O	Q	12.3.2A	A
B	B-2	2				V-15	ST-C	Q	12.3.2A	
		SO				V-14	F	Q	12.3.2A	
2-DG1-SV-6553-1	D-2265 sh. 1A	GA	C	C	OC	V-16	ST-O	Q	12.2A	A
B	B-2	2				V-16	ST-C	Q	12.2A	
		SO				V-14	F	Q	12.2A	
2-DG1-SV-6554-1	D-2265 sh. 1A	GA	C	C	OC	V-16	ST-O	Q	12.2A	A
B	B-3	2				V-16	ST-C	Q	12.2A	
		SO				V-14	F	Q	12.2A	



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency		Procedures	Active/Passive
			fail_	normal	safety						
2-DG1-SV-6576-1 B	D-2265 sh. 1A B-3	GA	C	C	OC	V-15	ST-O	Q	12.3.2A	A	
		2				V-15	ST-C	Q	12.3.2A		
		SO				V-14	F	Q	12.3.2A		
2-DG2-SV-6552-2 B	D-2265 SH. 1B B-2	GA	C	C	OC	V-15	ST-O	Q	12.3.2B	A	
		2				V-15	ST-C	Q	12.3.2B		
		SO				V-14	F	Q	12.3.2B		
2-DG2-SV-6553-2 B	D-2265 sh. 1B B-2	GA	C	C	OC	V-16	ST-O	Q	12.2B	A	
		2				V-16	ST-C	Q	12.2B		
		SO				V-14	F	Q	12.2B		
2-DG2-SV-6554-2 B	D-2265 sh. 1B B-3	GA	C	C	OC	V-16	ST-O	Q	12.2B	A	
		2				V-16	ST-C	Q	12.2B		
		SO				V-14	F	Q	12.2B		
2-DG2-SV-6576-2 B	D-2265 sh. 1B B-3	GA	C	C	OC	V-15	ST-O	Q	12.3.2B	A	
		2				V-15	ST-C	Q	12.3.2B		
		SO				V-14	F	Q	12.3.2B		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DG3-SV-6552-3 B	D-2266 sh. 2A B-2	GA	C	C	OC	V-15	ST-O	Q	12.3.2C	A
		2				V-15	ST-C	Q	12.3.2C	
		SO				V-14	F	Q	12.3.2C	
2-DG3-SV-6553-3 B	D-2266 sh. 2A B-2	GA	C	C	OC	V-16	ST-O	Q	12.2C	A
		2				V-16	ST-C	Q	12.2C	
		SO				V-14	F	Q	12.2C	
2-DG3-SV-6554-3 B	D-2266 sh. 2A B-3	GA	C	C	OC	V-16	ST-O	Q	12.2C	A
		2				V-16	ST-C	Q	12.2C	
		SO				V-14	F	Q	12.2C	
2-DG3-SV-6576-3 B	D-2266 sh. 2A B-3	GA	C	C	OC	V-15	ST-O	Q	12.3.2C	A
		2				V-15	ST-C	Q	12.3.2C	
		SO				V-14	F	Q	12.3.2C	
2-DG4-SV-6552-4 B	D-2266 sh. 2B B-2	GA	C	C	OC	V-15	ST-O	Q	12.3.2D	A
		2				V-15	ST-C	Q	12.3.2D	
		SO				V-14	F	Q	12.3.2D	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DG4-SV-6553-4 B	D-2266 sh. 2B B-2	GA	C	C	OC	V-16	ST-O	Q	12.2D	A
		2				V-16	ST-C	Q	12.2D	
		SO				V-14	F	Q	12.2D	
2-DG4-SV-6554-4 B	D-2266 sh. 2B B-3	GA	C	C	OC	V-16	ST-O	Q	12.2D	A
		2				V-16	ST-C	Q	12.2D	
		SO				V-14	F	Q	12.2D	
2-DG4-SV-6576-4 B	D-2266 sh. 2B B-3	GA	C	C	OC	V-15	ST-O	Q	12.3.2D	A
		2				V-15	ST-C	Q	12.3.2D	
		SO				V-14	F	Q	12.3.2D	
2-DSA-RV10 C	D-2265 sh. 1B F-2	RL	--	C	O	V-02	R	1.5	0MST- DG500R	A
		.5 SA								
2-DSA-RV12 C	D-2266 sh. 2A F-4	RL	--	C	O	V-02	R	1.5	0MST- DG500R	A
		.75 SA								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
2-DSA-RV14 C	D-2266 sh. 2A F-6	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV15 C	D-2266 sh. 2A F-2	RL .5 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV17 C	D-2266 sh. 2B F-4	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV19 C	D-2266 sh. 2B F-6	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV2 C	D-2265 sh. 1A F-4	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
2-DSA-RV20 C	D-2266 sh. 2B F-2	RL .5 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV4 C	D-2265 sh. 1A F-6	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV5 C	D-2265 sh. 1A F-2	RL .5 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV7 C	D-2265 sh. 1B F-4	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A
2-DSA-RV9 C	D-2265 sh. 1B F-6	RL .75 SA	--	C	O	V-02	R	1.5	0MST- DG500R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-DSA-V100 C	D-2266 sh. 2A E-5	CK .5 SA	--	OC	C	V-14	CV-O CV-C	Q Q	12.3.2C 12.3.2C	A
2-DSA-V106 C	D-2266 sh. 2A F-1	CK .5 SA	--	OC	O	V-14	CV-O	Q	12.2C	A
2-DSA-V111 C	D-2266 sh. 2B E-3	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500	A
2-DSA-V118 C	D-2266 sh. 2B E-5	CK .5 SA	--	OC	C	V-14	CV-C CV-O	Q Q	12.3.2D 12.3.2D	A
2-DSA-V123 C	D-2266 sh. 2B E-7	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DSA-V130 C	D-2266 sh. 2B E-5	CK .5 SA	--	OC	C	V-14	CV-C CV-O	Q Q	12.3.2D 12.3.2D	A
2-DSA-V136 C	D-2266 sh. 2B F-1	CK .5 SA	--	OC	O	V-14	CV-O	Q	12.2D	A
2-DSA-V141 C	D-2265 sh. 1A B-2	CK 2 SA	--	OC	OC	V-14 V-14	CV-O CV-C	Q 1.5	12.3.2A 0MST- DG500R	A
2-DSA-V142 C	D-2265 sh. 1A B-3	CK 2 SA	--	OC	OC	V-14 V-14	CV-O CV-C	Q 1.5	12.3.2A 0MST- DG500R	A
2-DSA-V145 C	D-2265 sh. 1B C-2	CK 2 SA	--	OC	OC	V-14 V-14	CV-O CV-C	Q 1.5	12.3.2B 0MST- DG500R	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DSA-V146	D-2265 sh. 1B	CK	--	OC	OC		CV-O	Q	12.3.2B	A
C	C-3	2				V-14	CV-C	1.5	0MST- DG500R	
		SA				V-14				
2-DSA-V149	D-2266 sh. 2A	CK	--	OC	OC		CV-O	Q	12.3.2C	A
C	B-2	2				V-14	CV-C	1.5	0MST- DG500R	
		SA				V-14				
2-DSA-V150	D-2266 sh. 2A	CK	--	OC	OC		CV-O	Q	12.3.2C	A
C	B-3	2				V-14	CV-C	1.5	0MST- DG500R	
		SA				V-14				
2-DSA-V153	D-2266 sh. 2B	CK	--	OC	OC		CV-O	Q	12.3.2D	A
C	B-3	2				V-14	CV-C	1.5	0MST- DG500R	
		SA				V-14				
2-DSA-V154	D-2266 sh. 2B	CK	--	OC	OC		CV-O	Q	12.3.2D	A
C	B-3	2				V-14	CV-C	1.5	0MST- DG500R	
		SA				V-14				



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DSA-V21 C	D-2265 sh. 1A E-3	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500R	A
2-DSA-V28 C	D-2265 sh. 1A E-5	CK .5 SA	--	OC	C	V-14	CV-C CV-O	Q Q	12.3.2A 12.3.2A	A
2-DSA-V33 C	D-2265 sh. 1A E-7	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500R	A
2-DSA-V40 C	D-2265 sh. 1A E-5	CK .5 SA	--	OC	C	V-14	CV-C CV-O	Q Q	12.3.2A 12.3.2A	A
2-DSA-V46 C	D-2265 sh. 1A F-1	CK .5 SA	--	OC	O	V-14	CV-O	Q	12.2A	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DSA-V51 C	D-2265 sh. 1B E-3	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500R	A
2-DSA-V58 C	D-2265 sh. 1B E-5	CK .5 SA	-	OC	C	V-14	CV-C CV-O	Q Q	12.3.2B 12.3.2B	A
2-DSA-V63 C	D-2265 sh. 1B E-7	CK .75 SA	--	OC	O	V-13 V-02	DA	1.5	0MST- DG500R	A
2-DSA-V70 C	D-2265 sh. 1B E-5	CK .5 SA	--	OC	C	V-14	CV-C CV-O	Q Q	12.3.2B 12.3.2B	A
2-DSA-V76 C	D-2265 sh. 1B F-1	CK .5 SA	--	OC	O	V-14	CV-O	Q	12.2B	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-DSA-V81 C	D-2266 sh. 2A E-3	CK .75 SA	--	OC	O	V -13 V -02	DA 1.5	0MST- DG500R	A	
2-DSA-V88 C	D-2266 sh. 2A E-5	CK .5 SA	--	OC	C	V-14	CV-O CV-C Q Q	12.3.2C 12.3.2C	A	
2-DSA-V93 C	D-2266 sh. 2A E-7	CK .75 SA	--	OC	O	V -13 V -02	DA 1.5	0MST- DG500R	A	
2-E11-F002A B	D-2537 sh. 1 C-6	BF 16 MO	--	O	O		ST-O V Q 2Y	8.1.4A 8.1.4A	P	
2-E11-F002B B	D-2537 sh. 2 C-5	BF 16 MO	--	O	O		ST-O V Q 2Y	8.1.4B 8.1.4B	P	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency	Procedures	Active/Passive
			fail_	normal	safety					
2-E11-F003A	D-2525 sh. 1A	GL	--	O	OC	ST-O	Q	8.2.2C	A	
B	E-4	16				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		
2-E11-F003B	D-2526 sh. 2A	GL	--	O	OC	ST-O	Q	8.2.2B	A	
B	B-8	16				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
2-E11-F004A	D-2525 sh. 1B	GA	--	O	OC	ST-O	Q	8.2.2C	A	
B	C-5	20				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		
2-E11-F004B	D-2526 sh. 2B	GA	--	O	OC	ST-O	Q	8.2.2B	A	
B	B-7	20				ST-C	Q	8.2.2B		
		MO				V	2Y	8.2.2B		
2-E11-F004C	D-2525 sh. 1B	GA	--	O	OC	ST-O	Q	8.2.2C	A	
B	C-5	20				ST-C	Q	8.2.2C		
		MO				V	2Y	8.2.2C		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					
2-E11-F004D B	D-2526 sh. 2B B-7	GA	--	O	OC		ST-O	Q	8.2.2B	A
		20			ST-C		Q	8.2.2B		
		MO			V		2Y	8.2.2B		
2-E11-F005A C	D-2537 sh. 1 E-6	CK	--	OC	OC		CV-C	Q	8.1.4A	A
		12			CV-O		Q	8.1.4A		
		SA								
2-E11-F005B C	D-2537 sh. 2 E-3	CK	--	OC	OC		CV-C	Q	8.1.4B	A
		12			CV-O		Q	8.1.4B		
		SA								
2-E11-F005C C	D-2537 sh. 1 E-8	CK	--	OC	OC		CV-C	Q	8.1.4A	A
		12			CV-O		Q	8.1.4A		
		SA								
2-E11-F005D C	D-2537 sh. 2 E-5	CK	--	OC	OC		CV-C	Q	8.1.4B	A
		12			CV-O		Q	8.1.4B		
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
2-E11-F006A B	D-2525 sh. 1B C-7	GA	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A
		20							
		MO							
2-E11-F006B B	D-2526 sh. 2B C-5	GA	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
		20							
		MO							
2-E11-F006C B	D-2525 sh. 1B C-3	GA	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A
		20							
		MO							
2-E11-F006D B	D-2526 sh. 2B C-8	GA	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
		20							
		MO							
2-E11-F007A B	D-2525 SH. 1B D-7	GA	--	C	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A
		4							
		MO							

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F007B B	D-2526 sh. 2B	GA	--	C	OC		ST-O	Q	8.2.2B	A
	B-4	4					ST-C	Q	8.2.2B	
		MO					V	2Y	8.2.2B	
2-E11-F008 A	D-2525 sh. 1B	GA	--	C	OC	CSJ-07	ST-C	C	8.0	A
	D-2	20				CSJ-07	ST-O	C	8.0	
		MO					PIV	2Y	20.7B	
							LLRT	PB	20.3-108	
							V	2Y	8.0	
2-E11-F009 A	D-2525 sh. 1B	GA	--	C	OC	CSJ-07	ST-C	C	8.0	A
	E-2	20				CSJ-07	ST-O	C	8.0	
		MO					PIV	2Y	20.7B	
							LLRT	PB	20.3-108	
							V	2Y	8.0	
2-E11-F011A B	D-2525 sh. 1A	GA	--	C	C		ST-C	Q	8.2.2C	A
	E-5	4					V	2Y	8.2.2C	
		MO								
2-E11-F011B B	D-2526 sh. 2A	GA	--	C	C		ST-C	Q	8.2.2B	A
	C-7	4					V	2Y	8.2.2B	
		MO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
						Frequency			
2-E11-F015A	D-2525 sh. 1B	GA	--	C	OC	ST-O	Q	8.2.2C	A
A	E-6	24				ST-C	Q	8.2.2C	
		MO				PIV	2Y	20.7B	
						LLRT	PB	20.3-111	
						V	2Y	8.2.2C	
2-E11-F015B	D-2526 sh. 2B	GA	--	C	OC	ST-O	Q	8.2.2B	A
A	D-5	24				ST-C	Q	8.2.2B	
		MO				PIV	2Y	20.7B	
						LLRT	PB	20.3-111	
						V	2Y	8.2.2B	
2-E11-F016A	D-2525 sh. 1B	GL	--	C	OC	ST-O	Q	8.2.2C	A
A	F-6	14				ST-C	Q	8.2.2C	
		MO				LLRT	PB	20.3-113	
						V	2Y	8.2.2C	
2-E11-F016B	D-2526 sh. 2B	GL	--	C	OC	ST-O	Q	8.2.2B	A
A	E-5	14				ST-C	Q	8.2.2B	
		MO				LLRT	PB	20.3-114	
						V	2Y	8.2.2B	
2-E11-F017A	D-2525 sh. 1B	AN	--	O	OC	ST-O	Q	8.2.2C	A
A	E-7	24				ST-C	Q	8.2.2C	
		MO				LLRT	PB	20.3-112	
						V	2Y	8.2.2C	



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E11-F017B A	D-2526 sh. 2B D-4	AN 24 MO	--	O	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2B 8.2.2B 20.3-112 8.2.2B	A	
2-E11-F020A B	D-2525 sh. 1B D-4	GA 24 MO	--	O	OC	ST-O ST-C V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A	
2-E11-F020B B	D-2526 sh. 2B C-7	GA 24 MO	--	O	OC	ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A	
2-E11-F021A A	D-2525 sh. 1B F-3	GA 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2C 8.2.2C 20.3-113 8.2.2C	A	
2-E11-F021B A	D-2526 sh. 2B E-7	GA 14 MO	--	C	OC	ST-O ST-C LLRT V	Q Q PB 2Y	8.2.2B 8.2.2B 20.3-114 8.2.2B	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
							Frequency		
2-E11-F024A	D-2525 sh. 1B	GL	-	C	OC	ST-O	Q	8.2.2C	A
B	E-8	16				ST-C	Q	8.2.2C	
		MO				V	2Y	8.2.2C	
2-E11-F024B	D-2526 sh. 2B	GL	-	C	OC	ST-O	Q	8.2.2B	A
B	D-3	16				ST-C	Q	8.2.2B	
		MO				V	2Y	8.2.2B	
2-E11-F025A	D-2525 sh. 1A	RL	--	C	OC				A
A/C	F-3	1				R	5Y	11.0	
		SA							
2-E11-F025B	D-2526 sh. 2A	RL	--	C	OC				A
A/C	E-7	1				R	5Y	11.0	
		SA							
2-E11-F027A	D-2525 sh. 1B	GL	-	C	OC	ST-O	Q	8.2.2C	A
A	E-7	6				ST-C	Q	8.2.2C	
		MO				LLRT	PB	20.3-118	
						V	2Y	8.2.2C	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
2-E11-F027B	D-2526 sh. 2B	GL	--	C	OC				
A	E-4	6				ST-O	Q	8.2.2B	A
		MO				ST-C	Q	8.2.2B	
						LLRT	PB	20.3-118	
						V	2Y	8.2.2B	
2-E11-F028A	D-2525 sh. 1B	GA	--	C	OC				
A	F-7	16				ST-O	Q	8.2.2C	A
		MO				ST-C	Q	8.2.2C	
						LLRT	PB	20.3-118	
						V	2Y	8.2.2C	
2-E11-F028B	D-2526 sh. 2B	GA	--	C	OC				
A	E-4	16				ST-O	Q	8.2.2B	A
		MO				ST-C	Q	8.2.2B	
						LLRT	PB	20.3-119	
						V	2Y	8.2.2B	
2-E11-F029	D-2525 sh. 1B	RL	--	C	OC				
A/C	C-1	1				R	5Y	11.0	A
		SA							
2-E11-F030A	D-2525 sh. 1B	RL	--	C	O				
C	C-6	1				R	5Y	11.0	A
		SA							

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F030B C	D-2526 sh. 2B C-5	RL 1 SA	--	C	O		R	5Y	11.0	A
2-E11-F030C C	D-2525 sh. 1B C-4	RL 1 SA	--	C	O		R	5Y	11.0	A
2-E11-F030D C	D-2526 sh. 2B C-7	RL 1 SA	--	C	O		R	5Y	11.0	A
2-E11-F031A C	D-2525 sh. 1B B-7	CK 16 SA	--	OC	OC	V-22	CV-O CV-C	Q Q	8.2.2C 8.2.2C	A
2-E11-F031B C	D-2526 sh. 2B A-2	CK 16 SA	--	OC	OC	V-22	CV-O CV-C	Q Q	8.2.2B 8.2.2B	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F031C	D-2525 sh. 1B	CK	--	OC	OC		CV-O	Q	8.2.2C	A
C	B-5	16				V-22	CV-C	Q	8.2.2C	
		SA								
2-E11-F031D	D-2526 sh. 2B	CK	--	OC	OC		CV-O	Q	8.2.2B	A
C	A-6	16				V-22	CV-C	Q	8.2.2B	
		SA								
2-E11-F040	D-2526 sh. 2B	GA	--	C	C		ST-C	Q	8.2.2B	A
B	C-3	4					V	2Y	8.2.2B	
		MO								
2-E11-F046A	D-2525 sh. 1B	CK	--	OC	OC	V-03	CV-P	Q	8.2.2C	A
C	B-6	3				V-22	CV-C	Q	8.2.2C	
		SA				V-03	DA	SP	11.1.2.3	
2-E11-F046B	D-2526 sh. 2B	CK	--	OC	OC	V-03	CV-P	Q	8.2.2B	A
C	A-4	3				V-22	CV-C	Q	8.2.2B	
		SA				V-03	DA	SP	11.1.2.3	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F046C	D-2525 sh. 1B	CK	--	OC	OC	V-03	CV-P	Q	8.2.2C	A
C	B-4	3				V-22	CV-C	Q	8.2.2C	
		SA				V-03	DA	SP	11.1.2.3	
2-E11-F046D	D-2526 sh. 2B	CK	--	OC	OC	V-03	CV-P	Q	8.2.2B	A
C	A-6	3				V-22	CV-C	Q	8.2.2B	
		SA				V-03	DA	SP	11.1.2.3	
2-E11-F047A	D-2525 sh. 1A	GA	--	O	OC		ST-O	Q	8.2.2C	A
B	D-2	16					ST-C	Q	8.2.2C	
		MO					V	2Y	8.2.2C	
2-E11-F047B	D-2526 sh. 2B	GA	--	O	OC		ST-O	Q	8.2.2B	A
B	A-1	16					ST-C	Q	8.2.2B	
		MO					V	2Y	8.2.2B	
2-E11-F048A	D-2525 sh. 1A	GL	--	O	OC		ST-O	Q	8.2.2C	A
B	E-2	20					ST-C	Q	8.2.2C	
		MO					V	2Y	8.2.2C	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E11-F048B B	D-2526 sh. 2B B-2	GL 20 MO	--	O	OC		ST-O ST-C V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
2-E11-F049 B	D-2526 sh. 2B C-4	GL 4 MO	--	C	C		ST-C V	Q 2Y	8.2.2B 8.2.2B	A
2-E11-F050A A/C	D-2525 sh. 1B E-4	CK 24 SA	--	C	OC	CSJ-08 RFJ-15	CV-O CV-C PIV	C R R	8.0A 20.7B 20.7B	A
2-E11-F050B A/C	D-2526 sh. 2B D-7	CK 24 SA	--	C	OC	CSJ-08 RFJ-15	CV-O CV-C PIV	C R R	8.0B 20.7B 20.7B	A
2-E11-F060A B	D-2526 SH, 2B D-7	GA 24 MA	--	O	O		V	2Y	20.7B	P

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F060B B	D-2526 sh. 2B D-7	GA 24 MA	-	O	O		V	2Y	20.7B	P
2-E11-F073 B	D-2537 sh. 2 C-2	BF 16 MO	-	C	O	RFJ-16	ST-O V	R 2Y	8.1.5 8.1.5	A
			Valve to be removed from IST scope in the open direction via ESR 99-00542.							
2-E11-F075 B	D-2526 SH. 2B B-1	GA 16 MO	-	C	O	RFJ-16	ST-O V	R 2Y	8.1.5 8.1.5	A
			Valve to be removed from IST scope in the open direction via ESR 99-00542.							
2-E11-F078 C	D-2526 SH. 2B B-2	CK 16 SA	-	C	OC	RFJ-17	ST-O CV-C	R Q	8.1.5 8.2.2B	A
			Valve to be removed from IST scope in the open direction via ESR 99-00542.							
2-E11-F079A B	D-2525 sh. 1A B-6	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2C 8.2.2C 8.2.2C	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-F079B B	D-2526 sh. 2A B-2	GL .75 SO	C	C	C		ST-C F V	Q Q 2Y	8.2.2B 8.2.2B 8.2.2B	A
2-E11-F089 C	D-2526 SH 2B F-3	CK 4 SA	--	OC	C	VRR-05	CV-C	Q	8.2.2B	A
2-E11-F090 C	D-2526 sh. 2B F-3	CK 4 SA	--	OC	C	VRR-05	CV-C	Q	8.2.2B	A
2-E11-F103A B	D-2525 sh. 1A C-2	GL 1 MO	--	C	C		ST-C V	Q 2Y	8.2.2C 8.2.2C	P
2-E11-F103B B	D-2526 sh. 2A C-4	GL 1 MO	--	C	C		ST-C V	Q 2Y	8.2.2B 8.2.2B	P

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-E11-PDV-F068A	D-2537 sh. 1	AN	--	C	O	ST-O	Q	8.1.4A	A	
B	D-1	16				V	2Y	8.1.4A		
		MO								
2-E11-PDV-F068B	D-2537 sh. 2	AN	--	C	O	ST-O	Q	8.1.4B	A	
B	D-8	16				V	2Y	8.1.4B		
		MO								
2-E11-SV-F037A	D-2525 sh. 1B	GL	O	O	C	ST-C	Q	2.2.1A	A	
B	F-4	.75				F	Q	2.2.1A		
		SO				V	2Y	20.4		
2-E11-SV-F037B	D-2526 sh. 2B	GL	O	O	C	ST-C	Q	2.2.1A	A	
B	E-6	.75				F	Q	2.2.1A		
		SO				V	2Y	20.4		
2-E11-SV-F037C	D-2525 sh. 1B	GL	O	O	C	ST-C	Q	2.2.1A	A	
B	E-4	.75				F	Q	2.2.1A		
		SO				V	2Y	20.4		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-SV-F037D B	D-2526 sh. 2B E-6	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
2-E11-SV-F043A B	D-2525 sh. 1B E-4	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
2-E11-SV-F043B B	D-2526 sh. 2B E-6	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
2-E11-SV-F043C B	D-2525 sh. 1B E-4	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A
2-E11-SV-F043D B	D-2526 sh. 2B E-6	GL .75 SO	O	O	C		ST-C F V	Q Q 2Y	2.2.1A 2.2.1A 20.4	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					
							Frequency			
2-E11-SV-F080A	D-2525 sh. 1A	GL	C	C	C		ST-C	Q	8.2.2C	A
B	B-7	.75					F	Q	8.2.2C	
		SO					V	2Y	8.2.2C	
2-E11-SV-F080B	D-2526 sh. 2A	GL	C	C	C		ST-C	Q	8.2.2B	A
B	B-2	.75					F	Q	8.2.2B	
		SO					V	2Y	8.2.2B	
2-E11-V192	D-2525 sh. 1B	CK	--	OC	C	VRR-05	CV-C	Q	8.2.2C	A
C	F-7	4								
		SA								
2-E11-V193	D-2525 sh. 1B	CK	--	OC	C	VRR-05	CV-C	Q	8.2.2C	A
C	F-7	4								
		SA								
2-E11-V20	D-2525 sh. 1A	RL	--	C	OC					A
A/C	C-3	.75					R	5Y	11.0	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E11-V21	D-2526 sh. 2A	RL	--	C	OC					A
A/C	C-3	.75 SA					R	5Y	11.0	
2-E11-V39	D-2549 sh. 1B	GA	--	C	O	RFJ-23	ST	R	8.2.2B	A
B	F-5	8 M								
2-E11-V40	D-2549 sh. 1B	GA	--	C	O	RFJ-23	ST	R	8.0C	A
B	B-2	8 M								
2-E11-V51	D-02537	RL		C	O		R	5Y	11.0	
C	C-6	.75								
2-E11-V54	D-02537	RL		C	O		R	5Y	11.0	
C	C-5	.75								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E21-F001A	D-2524 sh. 2	GA	--	O	OC	ST-O	Q	7.2.4A	A	
B	A-7	14				ST-C	Q	7.2.4A		
		MO				V	2Y	7.2.4A		
2-E21-F001B	D-2524 sh. 1	GA	--	O	OC	ST-O	Q	7.2.4B	A	
B	B-8	14				ST-C	Q	7.2.4B		
		MO				V	2Y	7.2.4B		
2-E21-F003A	D-2524 sh. 2	CK	--	C	O	CV-O	Q	7.2.4A	A	
C	D-1	12								
		SA								
2-E21-F003B	D-2524 sh. 2	CK	--	C	O	CV-O	Q	7.2.4B	A	
C	C-2	12								
		SA								
2-E21-F004A	D-2524 sh. 2	GA	--	O	OC	ST-O	Q	7.2.4A	A	
A	D-6	10				ST-C	Q	7.2.4A		
		MO				LLRT	PB	20.3-143		
						V	2Y	7.2.4A		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E21-F004B	D-2524 sh. 1	GA	--	O	OC		ST-O	Q	7.2.4B	A
A	E-6	10					ST-C	Q	7.2.4B	
		MO					LLRT	PB	20.3-143	
							V	2Y	7.2.4B	
2-E21-F005A	D-2524 sh. 2	GA	--	C	OC		ST-O	Q	7.2.4A	A
A	D-6	10					ST-C	Q	7.2.4A	
		MO					LLRT	PB	20.3-142	
							V	2Y	7.2.4A	
							PIV	2Y	20.7B	
2-E21-F005B	D-2524 sh. 1	GA	--	C	OC		ST-O	Q	7.2.4B	A
A	E-6	10					ST-C	Q	7.2.4B	
		MO					LLRT	PB	20.3-142	
							V	2Y	7.2.4B	
							PIV	2Y	20.7B	
2-E21-F006A	D-2524 sh. 2	CK	--	C	OC	RFJ-13	CV-O	R	7.1.1A	A
A/C	D-7	10				RFJ-13	CV-C	R	20.7B	
		SA					PIV	R	20.7B	
2-E21-F006B	D-2524 sh. 1	CK	--	C	OC	RFJ-13	CV-O	R	7.1.1B	A
A/C	E-7	10				RFJ-13	CV-C	R	20.7B	
		SA					PIV	R	20.7B	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
2-E21-F007A B	D-2524 SH. 2 D-7	GA 10 MA	-	O	O		V 2Y	20.7B	P
2-E21-F007B B	D-2524 SH. 1 E-7	GA 10 MA	-	O	O		V 2Y	20.7B	P
2-E21-F012A C	D-2524 sh. 2 E-2	RL 1.5 SA	--	C	OC		R 5Y	11.0	A
2-E21-F012B C	D-2524 sh. 1 E-3	RL 1.5 SA	-	C	OC		R 5Y	11.0	A
2-E21-F015A B	D-2524 sh. 2 E-4	GL 10 MO	-	C	C		ST-C V 2Y	7.2.4A 7.2.4A	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E21-F015B B	D-2524 sh. 1 D-5	GL 10 MO	--	C	C		ST-C V	Q 2Y	7.2.4B 7.2.4B	A
2-E21-F017A A/C	D-2524 sh. 2 E-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV18R 0MST- EFCV18R	A
2-E21-F017B A/C	D-2524 sh. 2 D-6	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
2-E21-F029A C	D-2524 sh. 2 C-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4A	A
2-E21-F029B C	D-2524 sh. 2 E-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4B	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E21-F030A C	D-2524 sh. 2 C-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4A	A
2-E21-F030B C	D-2524 sh. 1 E-5	CK 2 SA	--	C	C	VRR-05	CV-C	Q	7.2.4B	A
2-E21-F031A B	D-2524 sh. 2 C-2	GA 3 MO	--	O	OC		ST-O ST-C V	Q Q 2Y	7.2.4A 7.2.4A 7.2.4A	A
2-E21-F031B B	D-2524 sh. 1 C-2	GA 3 MO	--	O	OC		ST-O ST-C V	Q Q 2Y	7.2.4B 7.2.4B 7.2.4B	A
2-E21-F032A C	D-2524 sh. 2 B-5	RL .75 SA	--	C	OC		R	5Y	11.0	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E21-F032B C	D-2524 sh. 1 B-5	RL .75 SA	--	C	OC		R	5Y	11.0	A
2-E41-F001 B	D-2523 sh. 2 F-2	GA 10 MO	--	C	O		ST-O V	Q 2Y	9.7 9.7	A
2-E41-F002 A	D-2523 sh. 1 E-7	GA 10 MO	--	O	OC		ST-O ST-C LLRT V	Q Q PB 2Y	9.7 9.7 20.3-148 9.2.1	A
2-E41-F003 A	D-2523 sh. 1 E-6	GA 10 MO	--	C	OC		ST-O ST-C LLRT V	Q Q PB 2Y	9.7 9.7 20.3-148 9.7	A
2-E41-F004 B	D-2523 sh. 1 E-2	GA 16 MO	--	O	C		ST-C V	Q 2Y	9.7 9.7	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive
			fail_	normal	safety				
2-E41-F005 C	D-2523 sh. 1 B-6	CK 14 SA	--	C	O		CV-O Q 9.2	A	
2-E41-F006 A	D-2523 sh. 1 A-7	GA 14 MO	--	C	OC		ST-O Q 9.7 ST-C Q 9.7 LLRT PB 20.3-56 V 2Y 9.7	A	
2-E41-F007 B	D-2523 sh. 1 B-6	GA 14 MO	--	O	O		ST-O Q 9.7 V 2Y 9.7	A	
2-E41-F008 B	D-2523 sh. 1 D-5	GL 10 MO	--	C	C		ST-C Q 9.7 V 2Y 9.7	A	
2-E41-F011 B	D-2523 sh. 1 F-3	GA 10 MO	--	C	C		ST-C Q 9.7 V 2Y 9.7	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-F012	D-2523 sh. 1	GL	--	C	OC		ST-O	Q	9.7	A
B	A-5	4					ST-C	Q	9.7	
		MO					V	2Y	9.7	
2-E41-F019	D-2523 sh. 1	CK	--	OC	OC		CV-O	Q	9.2	A
C	E-2	16					CV-C	Q	9.2	
		SA								
2-E41-F020	D-2523 sh. 1	RL	--	C	OC		R	5Y	11.0	A
C	D-4	1								
		SA								
2-E41-F021	D-2523 sh. 1	SC	--	C	OC		CV-O	Q	9.2	A
C	C-7	20				V-25	DA	SP	11.1.2.3	
		SA								
2-E41-F022	D-2523 sh. 2	SC	--	C	OC	V-25	DA	SP	11.1.2.3	A
C	C-6	2								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E41-F023A	D-2523 sh. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV14R	A
A/C	F-6	.75					V	2Y	0MST- EFCV14R	
		SA								
2-E41-F023B	D-2523 sh. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV17R	A
A/C	D-6	.75					V	2Y	0MST- EFCV17R	
		SA								
2-E41-F023C	D-2523 sh. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV14R	A
A/C	F-6	.75					V	2Y	0MST- EFCV14R	
		SA								
2-E41-F023D	D-2523 sh. 1	EF	--	O	C	RFJ-01	CV-F	R	0MST- EFCV17R	A
A/C	D-6	.75					V	2Y	0MST- EFCV17R	
		SA								
2-E41-F026	D-2523 sh. 2	GA	C	OC	C		ST-C	Q	9.7	A
B	A-4	1					F	Q	9.7	
		AO					V	2Y	9.7	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-F028 B	D-2523 sh. 2 D-3	BL .75 AO	C	O	C		ST-C F V	Q Q 2Y	9.7 9.7 9.7	A
2-E41-F040 C	D-2523 sh. 2 C-5	CK 2 SA	--	C	OC	RFJ-18	CV-C DA	R SP	20.2-151 11.1.2.3	A
2-E41-F041 B	D-2523 sh. 1 E-4	GA 16 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	9.7 9.7 9.7	A
2-E41-F042 B	D-2523 sh. 2 A-6	GA 16 MO	--	C	OC		ST-O ST-C V	Q Q 2Y	9.7 9.7 9.7	A
2-E41-F045 C	D-2523 sh. 2 A-5	CK 16 SA	--	C	O	V-08	CV-P DA	Q SP	9.2 11.1.2.3	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-F046 C	D-2523 sh. 1 A-5	CK 4 SA	--	C	O	V-09	CV-P DA	Q SP	9.2 11.1.2.3	A
2-E41-F048 C	D-2523 sh. 2 B-4	CK 2 SA	--	C	O	V-10	CV-P DA	Q SP	9.2 11.1.2.3	A
2-E41-F049 C	D-2523 sh. 2 C-6	CK 20 SA	--	C	OC	RFJ-19	CV-O CV-C	Q R	9.2 20.2-152	A
2-E41-F050 C	D-2523 sh. 2 B-5	RL 1.5 SA	--	C	OC		R	5Y	11.0	A
2-E41-F052 C	D-2523 sh. 2 A-2	CK 2 SA	--	C	C		CV-C	Q	9.2	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures		Active/Passive
			fail_	normal	safety		Frequency				
2-E41-F057 C	D-2523 sh. 2 B-3	CK 2 SA	--	C	O		CV-P DA	Q SP	9.2 11.1.2.3		A
2-E41-F059 B	D-2523 sh. 2 C-5	GL 2 MO	--	C	O		ST-O V	Q 2Y	9.7 9.7		A
2-E41-F075 A	D-2523 sh. 2 B-8	GA 2 MO	--	O	C		ST-O ST-C LLRT V	Q Q PB 2Y	9.7 9.7 20.3-153 9.7		A
2-E41-F076 C	D-2523 sh. 2 B-8	CK 2 SA	--	C	O	CSJ-10 CSJ-10	CV-O CV-C	C C	20.10 20.10		A
2-E41-F077 C	D-2523 sh. 2 B-8	CK 2 SA	--	C	O	CSJ-10 CSJ-10	CV-O CV-C	C C	20.10 20.10		A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-F079	D-2523 sh. 2	GA	--	O	C		ST-O	Q	9.7	A
A	B-8	2					ST-C	Q	9.7	
		MO					LLRT	PB	20.3-153	
							V	2Y	9.7	
2-E41-PSE-D003	D-2523,SH.2	RD		C	C		REPL	5YR		
	D-6	16								
2-E41-PSE-D004	D-2523,SH.2	RD		C	C		REPL	5YR		
	E-6	16								
2-E41-SV-1218D	D-2523 sh. 2	GL	O	O	C		ST-C	Q	2.2.1A	A
B	B-7	1					F	Q	2.2.1A	
		SO					V	2Y	20.4	
2-E41-SV-1219D	D-2523 sh. 2	GL	O	O	C		ST-C	Q	2.2.1A	A
B	B-7	1					F	Q	2.2.1A	
		SO					V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-SV-1220D	D-2523 sh. 2	GL	O	O	C		ST-C	Q	2.2.1A	A
B	B-7	1					F	Q	2.2.1A	
		SO					V	2Y	20.4	
2-E41-SV-1221D	D-2523 sh. 2	GL	O	O	C		ST-C	Q	2.2.1A	A
B	A-7	1					F	Q	2.2.1A	
		SO					V	2Y	20.4	
2-E41-V159	D-2523 sh. 1	CK	-	C	OC	RFJ-20	CV-O	R	20.12	A
C	A-7	14								
		SA				RFJ-20	CV-C	R	20.12	
2-E41-V79	D-2523	CK	C	C	O		CV-O	Q	9.2	A
C		SA								
2-E41-V8	D-2523 sh. 2	GA				V-26	ST-C	Q	9.2	A
B	F-4	10				V-26	ST-O	Q	9.2	
		HO				V-26	V	2Y		
						V-26	F	Q	9.2	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E41-V9	D-2523 sh. 2	GA				V-26	ST-O	Q	9.2	
B	F-4	10				V-26	ST-C	Q	9.2	
		HO				V-26	V	2Y		
						V-26	F	Q	9.2	
2-E41-V93	D-2523 sh. 1	CK	--	C	C	VRR-05	CV-C	Q	9.2	A
C	D-6	2								
		SA								
2-E41-V94	D-2523 sh. 1	CK	--	C	C	VRR-05	CV-C	Q	9.2	A
C	D-6	2								
		SA								
2-E51-F001	D-2529 sh. 2	SC	--	C	OC		CV-O	Q	10.1.1	A
C	B-6	8				V-25	DA	SP	11.1.2.3	
		SA								
2-E51-F007	D-2529 sh. 1	GA	--	O	OC		ST-O	Q	10.1.8	A
A	E-7	3					ST-C	Q	10.1.8	
		MO					LLRT	PB	20.3-156	
							V	2Y	10.2.1	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					
2-E51-F008 A	D-2529 sh. 1 E-6	GA 3 MO	--	O	OC		ST-O	Q	10.1.8	A
							ST-C	Q	10.1.8	
							LLRT	PB	20.3-156	
							V	2Y	10.1.8	
2-E51-F010 B	D-2529 sh. 1 E-4	GA 6 MO	--	O	OC		ST-O	Q	10.1.8	A
							ST-C	Q	10.1.8	
							V	2Y	10.1.8	
2-E51-F011 C	D-2529 sh. 1 D-4	CK 6 SA	--	C	OC		CV-O	Q	10.1.1	A
							CV-C	Q	10.1.1	
2-E51-F012 B	D-2529 sh. 1 B-6	GA 4 MO	--	O	O		ST-O	Q	10.1.8	A
							V	2Y	10.1.8	
2-E51-F013 A	D-2529 sh. 1 B-6	GA 4 MO	--	C	OC		ST-O	Q	10.1.8	A
							ST-C	Q	10.1.8	
							LLRT	PB	20.3-165	
							V	2Y	10.1.8	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E51-F014 C	D-2529 sh. 1 B-6	CK 4 SA	--	C	O		CV-O Q	10.1.1	A	
2-E51-F017 C	D-2529 sh. 1 D-4	RL 1 SA	--	C	OC		R 5Y	11.0	A	
2-E51-F018 C	D-2529 SHT 2 E-5	RL 1		C	O		R 48M	11.0		
2-E51-F019 B	D-2529 sh. 2 C-3	GL 2 MO	--	C	OC		ST-O ST-C V Q Q 2Y	10.1.8 10.1.8 10.1.8	A	
2-E51-F021 C	D-2529 sh. 2 C-2	CK 2 SA	--	C	O	V-09	CV-P DA Q SP	10.1.1 11.1.2.3	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E51-F022	D-2529 sh. 1	GL	--	C	C		ST-C	Q	10.1.8	A
B	D-5	4					V	2Y	10.1.8	
		MO								
2-E51-F025	D-2529 sh. 1	GL	C	C	C		ST-C	Q	10.1.8	A
B	E-1	1					F	Q	10.1.8	
		AO					V	2Y	10.1.8	
2-E51-F029	D-2529 sh. 1	GA	--	C	OC		ST-O	Q	10.1.8	A
B	D-4	6					ST-C	Q	10.1.8	
		MO					V	2Y	10.1.8	
2-E51-F030	D-2529 sh. 2	CK	--	C	O	V-08	CV-P	Q	10.1.1	A
C	A-5	6					DA	SP	11.1.2.3	
		SA								
2-E51-F031	D-2529 sh. 2	GA	--	C	OC		ST-O	Q	10.1.8	A
B	A-6	6					ST-C	Q	10.1.8	
		MO					V	2Y	10.1.8	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-E51-F040 C	D-2529 sh. 2 B-6	CK 8 SA	--	C	OC	RFJ-19	CV-O CV-C	Q R	10.1.1 20.2-160	A
2-E51-F043A A/C	D-2529 sh. 1 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A
2-E51-F043B A/C	D-2529 sh. 1 F-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A
2-E51-F043C A/C	D-2529 sh. 1 D-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV14R 0MST- EFCV14R	A
2-E51-F043D A/C	D-2529 sh. 1 F-7	EF .75 SA	--	O	C	RFJ-01	CV-F V	R 2Y	0MST- EFCV17R 0MST- EFCV17R	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E51-F045	D-2529 sh. 1	GL	--	C	OC		ST-O	Q	10.1.8	A
B	D-2	3					ST-C	Q	10.1.8	
		MO					V	2Y	10.1.8	
2-E51-F046	D-2529 sh. 1	GL	--	C	O		ST-O	Q	10.1.8	A
B	B-4	2					ST-C	Q	10.1.8	
		MO					V	2Y	10.1.8	
2-E51-F047	D-2529 sh. 2	CK	--	O	C		CV-C	Q	10.1.1	A
C	E-6	2					DA	SP	DELETED	
		SA								
2-E51-F062	D-2529 sh. 2	GA	--	O	C		ST-O	Q	10.1.8	A
A	B-7	2					ST-C	Q	10.1.8	
		MO					LLRT	PB	20.3-161	
							V	2Y	10.1.8	
2-E51-F063	D-2529 sh. 2	CK	--	C	O	CSJ-10	CV-O	C	20.10	A
C	B-8	2				CSJ-10	CV-C	C	20.10	
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E51-F064	D-2529 sh. 2	CK	--	C	O	CSJ-10	CV-O	C	20.10	A
C	B-8	2				CSJ-10	CV-C	C	20.10	
		SA								
2-E51-F066	D-2529 sh. 2	GL	--	O	C		ST-O	Q	10.1.8	A
A	B-8	2					ST-C	Q	10.1.8	
		MO					LLRT	PB	20.3-161	
							V	2Y	10.1.8	
2-E51-PSE-D001	D-2529,SH.2	RD		C	C		REPL	5YR		
	C-5	8								
2-E51-PSE-D002	D-2529,SH.2	RD		C	C		REPL	5YR		
	C-5	8								
2-E51-V72	D-2529 sh. 1	CK	--	OC	C	VRR-05	CV-C	Q	10.1.1	A
C	A-5	2								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-E51-V73 C	D-2529 sh. 1 A-5	CK 2 SA	--	OC	C	VRR-05	CV-C	Q	10.1.1	A
2-E51-V8 B	D-2529 sh. 1 C-2	GA 3 MO				V-26 V-26 V-26 V-26	ST-O ST-C V F	Q Q 2Y Q	10.1.1 10.1.1 10.1.1	
2-E51-V88 A/C	D-2529 sh. 1 B-7	CK 4 SA	--	C	OC	V-11 V-11	DA CV-C LLRT	R 2Y 2Y	11.1.2.3 20.3-057 20.3-057	A
2-E51-V9 B	D-2529 sh. 1 C-3	GA 3 HO				V-26 V-26 V-26 V-26	ST-O ST-C V F	Q Q 2Y Q	10.1.1 10.1.1 10.1.1	
2-FOD-RV-1A C	D-2268 sh. 1A B-3	RL 1 SA	--	C	OC	V-02	R	1.5	0MST- DG500R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
2-FOD-RV-1B C	D-2268 sh. 1A B-2	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-RV-2A C	D-2268 sh. 1B B-3	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-RV-2B C	D-2268 sh. 1B B-2	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-RV-3A C	D-2269 sh. 2A B-3	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-RV-3B C	D-2269 sh. 2A B-2	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Frequency</i>	<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>					
2-FOD-RV-4A C	D-2269 sh. 2B B-3	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-RV-4B C	D-2269 sh. 2B B-2	RL 1 SA	--	C	OC	V -02	R	1.5	0MST- DG500R	A
2-FOD-V49 C	D-2268 sh. 1A C-2	CK 1 SA	--	C	O		CV-O	Q	12.4A	A
2-FOD-V50 C	D-2268 sh. 1A C-3	CK 1 SA	--	C	O		CV-O	Q	12.4A	A
2-FOD-V51 C	D-2268 sh. 1B C-2	CK 1 SA	--	C	O		CV-O	Q	12.4B	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-FOD-V52	D-2268 sh. 1B	CK	--	C	O	CV-O	Q	12.4B	A	
C	C-3	1								
		SA								
2-FOD-V53	D-2268 sh. 2A	CK	--	C	O	CV-O	Q	12.4C	A	
C	C-2	1								
		SA								
2-FOD-V54	D-2269 sh. 2A	CK	--	C	O	CV-O	Q	12.4C	A	
C	C-3	1								
		SA								
2-FOD-V55	D-2269 sh. 2B	CK	--	C	O	CV-O	Q	12.4D	A	
C	C-2	1								
		SA								
2-FOD-V56	D-2269 sh. 2B	CK	--	C	O	CV-O	Q	12.4D	A	
C	C-3	1								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-G16-F003 A	D-2545 sh. 3B C-3	GA	C	O	C	ST-C	Q	11.3	A	
		3				F	Q	11.3		
		AO				LLRT	PB	20.3-162		
						V	2Y	11.3		
2-G16-F004 A	D-2545 sh. 3B C-3	GA	C	O	C	ST-C	Q	11.3	A	
		3				F	Q	11.3		
		AO				LLRT	PB	20.3-162		
						V	2Y	11.3		
2-G16-F019 A	D-2545 sh. 3A B-3	GA	C	O	C	ST-C	Q	11.3	A	
		3				F	Q	11.3		
		AO				LLRT	PB	20.3-163		
						V	2Y	11.3		
2-G16-F020 A	D-2545 sh. 3A B-2	GA	C	O	C	ST-C	Q	11.3	A	
		3				F	Q	11.3		
		AO				LLRT	PB	20.3-163		
						V	2Y	11.3		
2-G31-F001 A	D-2527 sh. 1B D-7	GA	-	O	C	ST-C	Q	14.6	A	
		6				LLRT	PB	20.3-164		
		MO				V	2Y	14.6		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency	Frequency		
2-G31-F004 A	D-2527 sh. 1B D-6	GA 6 MO	--	O	C		ST-C LLRT V	Q PB 2Y	14.6 20.3-164 14.6	A
2-G31-F042 A	D-2527 sh. 1B E-5	GL 4 MO	--	O	C		ST-C LLRT V	Q PB 2Y	14.6 20.3-165 14.6	A
2-G41-F004 B	D-2549 sh. 1B B-2	GA 8 M	--	O	C	RFJ-23	ST	R	8.0C	A
2-G41-F016 B	D-2549 sh. 1B C-2	GA 8 M	--	O	C	RFJ-23	ST	R	8.0C	A
2-G41-F036 B	D-2549 sh. 1B F-4	GA 8 M	--	O	C	RFJ-23	ST	R	8.2.2B	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-G41-V24	D-2549 sh. 1B	CK	--	O	OC		CV-O	Q	24.6.2	A
C	E-4	6					CV-C	Q	24.6.2	
		SA								
2-G41-V8	D-2549 sh. 1B	CK	--	O	OC		CV-O	Q	24.6.2	A
C	E-4	6					CV-C	Q	24.6.2	
		SA								
2-RCC-SV-1222B	D-2538 sh. 1	GL	O	O	C		ST-C	Q	2.2.1A	A
A	F-2	.75					F	Q	2.2.1A	
		SO					LLRT	PB	20.3-167	
							V	2Y	20.4	
2-RCC-SV-1222C	D-2538 sh. 1	GL	O	O	C		ST-C	Q	2.2.1A	A
A	E-2	.75					F	Q	2.2.1A	
		SO					LLRT	PB	20.3-167	
							V	2Y	20.4	
2-RCC-V28	D-2538 sh. 1	GA	--	O	C	CSJ-07	ST-C	C	22.2	A
A	D-8	8					V	2Y	22.2	
		MO					LLRT	PB	20.3-166	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-RCC-V52 A	D-2538 sh. 1 E-7	GA 8 MO	--	O	C	CSJ-07	ST-C V LLRT	C 2Y PB	22.2 22.2 20.3-166	A
2-RNA-IV-2307 C	D-7029 sh. 2A D-6	CK .75 SA	--	OC	C		CV-C	C	20.9	A
2-RNA-IV-2311 C	D-7029 sh. 2A F-2	CK .75 SA	--	OC	C		CV-C	C	20.9	A
2-RNA-IV-2315 C	D-7029 sh. 2B B-6	CK .75 SA	--	OC	C		CV-C	C	20.9	A
2-RNA-IV-2319 C	D-7029 sh. 2B B-6	CK .75 SA	--	OC	C		CV-C	C	20.9	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-RNA-IV-2323 C	D-7206 sh. 4 F-6	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
2-RNA-IV-2327 C	D-7206 sh. 4 F-6	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
2-RNA-IV-2331 C	D-7029 sh. 2A F-1	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
2-RNA-IV-2641 C	D-7029 sh. 2B C-4	CK .75 SA	--	OC	O	CV-O	C	20.9	A	
2-RNA-IV-2643 C	D-7029 sh. 2B B-4	CK .75 SA	--	OC	OC	CV-O	C	20.9	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-RNA-IV-2647 C	D-7029 sh. 2B C-4	CK .75 SA	--	OC	C	CV-C	C	20.9	A	
2-RNA-PRV-5258 C	D-7368 sh. 1 E-3	RL .75 SA	--	C	OC	R	SP	11.0	A	
2-RNA-PRV-5258 C	D-7368 sh. 1 C-3	RL .75 SA	--	C	OC	R	SP	11.0	A	
2-RNA-PRV-5259 C	D-7368 sh. 1 E-7	RL .75 SA	--	C	OC	R	SP	11.0	A	
2-RNA-PRV-5260 C	D-7368 sh. 1 B-7	RL .75 SA	--	C	OC	R	SP	11.0	A	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures	Active/Passive	
			fail_	normal	safety					Frequency
2-RNA-PSE-101	D-2846,SH.270	RD		C	C		REPL	5YR		
2-RNA-PSE-102	D-2846,SH.284	RD		C	C		REPL	5YR		
2-RNA-SV-5251	D-7368 sh. 1	GL	O	O	OC		ST-O	Q	31.6	A
A	G-2	.75					ST-C	Q	31.6	
		SO					F	Q	31.6	
							LLRT	PB	20.3-170	
							V	2Y	20.4	
2-RNA-SV-5253	D-7368 sh. 1	GL	O	O	OC		ST-O	Q	31.6	A
A	D-2	.75					ST-C	Q	31.6	
		SO					F	Q	31.6	
							LLRT	PB	20.3-171	
							V	2Y	20.4	
2-RNA-SV-5261	D-7077 sh. 3B	GL	C	O	C	CSJ-14	ST-C	C	31.11	A
A	D-1	2				CSJ-14	F	C	31.11	
		SO					LLRT	PB	20.3-169	
							V	2Y	20.4	

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-RNA-SV-5262 A	D-7077 sh. 3A	GL	C	O	C	CSJ-14	ST-C	C	31.11	A
		2				CSJ-14	F	C	31.11	
	SO						LLRT	PB	20.3-168	
							V	2Y	20.4	
2-RNA-SV-5481 B	D-7368 sh. 1	GL	O	C	O		ST-O	Q	31.6	A
		.75					F	Q	31.6	
	SO						V	2Y	20.4	
2-RNA-SV-5482 B	D-7368 sh. 1	GL	O	C	O		ST-O	Q	31.6	A
		.75					F	Q	31.6	
	SO						V	2Y	20.4	
2-RNA-V305 C	D-7368 sh. 1	CK	-	C	O		CV-O	Q	2.3.2	A
		.75								
		SA								
2-RNA-V306 C	D-7368 sh. 1	CK	-	O	C		CV-C	Q	2.3.2	A
		.75								
		SA								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-RNA-V307 C	D-7368 sh. 1 C-3	CK .75 SA	--	C	O		CV-O	Q	2.3.2	A
2-RNA-V308 C	D-7029 sh. 2A B-3	CK .75 SA	--	O	C		CV-C	Q	2.3.2	A
2-RNA-V313 C	D-7007 sh. 1 E-3	CK .75 SA	--	OC	O	RFJ-06	CV-O	R	31.1	A
2-RNA-V314 C	D-7007 sh. 1 F-6	CK .75 SA	--	OC	O	RFJ-06	CV-O	R	31.1	A
2-RNA-V315 C	D-7007 sh. 1 E-2	CK .75 SA	--	OC	OC	RFJ-06 RFJ-21	CV-O CV-C	R R	31.1 20.8	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-RNA-V316	D-7007 sh. 1	CK	--	OC	OC	RFJ-08	CV-O	R	31.1	A
C	E-7	.75				RFJ-21	CV-C	R	20.8	
		SA								
2-RNA-V317	D-7368 sh. 1	CK	--	C	O	V-18	CV-O	2Y	31.8	A
C	E-7	.25								
		SA								
2-RNA-V318	D-7368 sh. 1	CK	--	C	O	V-18	CV-O	2Y	31.8	A
C	E-7	.25								
		SA								
2-RNA-V319	D-7368 sh. 1	CK	--	OC	O	V-18	CV-O	2Y	31.8	A
C	E-7	.25								
		SA								
2-RNA-V320	D-7368 sh. 1	CK	--	C	O	V-18	CV-O	2Y	31.8	A
C	E-7	.25								
		SA								



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-RNA-V321 C	D-7368 sh. 1 E-8	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V322 C	D-7368 sh. 1 E-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V323 C	D-7368 sh. 1 E-8	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V324 C	D-7368 sh. 1 E-6	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V325 C	D-7368 sh. 1 E-6	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-RNA-V326 C	D-7368 sh. 1 E-6	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V327 C	D-7368 sh. 1 E-6	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V328 C	D-7368 sh. 1 C-6	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V329 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V330 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>	<i>Procedures</i>		<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>			<i>Frequency</i>		
2-RNA-V331 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V332 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V333 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V334 C	D-7368 sh. 1 C-7	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V335 C	D-7368 sh. 1 C-8	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-RNA-V336 C	D-7368 sh. 1 C-8	CK .25 SA	--	C	O	V-18	CV-O	2Y	31.8	A
2-RNA-V350 A/C	D-7007 sh. 1 D-7	CK .75 SA	--	OC	OC	RFJ-06 RFJ-06	CV-O CV-C LLRT	R R R	31.1 20.3-169 20.3-169	A
2-RNA-V351 A/C	D-7007 sh. 1 D-2	CK .75 SA	--	OC	OC		CV-O CV-C LLRT	C R R	31.1 20.3-168 20.3-168	A
2-RXS-SV-4186 A	D-7327 sh. 1 A-7	GL .5 SO	C	C	OC		ST-O ST-C F LLRT V	Q Q Q PB 2Y	15.8 15.8 15.8 20.3-172 20.4	A
2-RXS-SV-4187 A	D-7327 sh. 1 A-7	GL .5 SO	C	C	OC		ST-O ST-C F LLRT V	Q Q Q PB 2Y	15.8 15.8 15.8 20.3-173 20.4	A

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-RXS-SV-4188 A	D-7327 sh. 1	GL	C	C	OC	ST-O	Q	15.8	A	
		.5				ST-C	Q	15.8		
	SO				F	Q	15.8			
					LLRT	PB	20.3-174			
					V	2Y	20.4			
2-RXS-SV-4189 A	D-7327 sh. 1	GL	C	C	OC	ST-O	Q	15.8	A	
		.5				ST-C	Q	15.8		
	SO				F	Q	15.8			
					LLRT	PB	20.3-175			
					V	2Y	20.4			
2-RXS-SV-4192 B	F-4073 sh. 3	GL	C	C	O	ST-O	Q	15.7	A	
		.5				ST-C	Q	15.7		
	SO				F	Q	15.7			
					V	2Y	20.4			
2-SGT-V8 B	F-4073 sh. 3	AN	-	C	O	ST-O	Q	15.7	A	
		.5				V	2Y	15.7		
	MO									
2-SGT-V9 B	F-4073 sh. 3	AN	-	C	O	ST-O	Q	15.7	A	
		.5				V	2Y	15.7		
	MO									

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-PV-116	D-2041 sh. 1	GA	O	C	O	ST-O	Q	24.1-2	A	
B	C-1	2				F	Q	24.1-2		
		AO								
2-SW-PV-118	D-2041 sh. 1	GA	O	C	O	ST-O	Q	24.1-2	A	
B	C-4	2				F	Q	24.1-2		
		AO								
2-SW-PV-120	D-2041 sh. 1	GA	O	C	O	ST-O	Q	24.1-2	A	
B	C-6	2				F	Q	24.1-2		
		AO								
2-SW-PV-138	D-2041 SH. 2	GA	O	C	O	ST-O	Q	24.1-2	A	
B	C-1	2				F	Q	24.1-2		
		AO								
2-SW-PV-140	D-2041 SH. 2	GA	O	C	O	ST-O	Q	24.1-2	A	
B	C-4	2				F	Q	24.1-2		
		AO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-SW-V101	D-2537 sh. 1	BF	--	C	CO	ST-C	Q	8.1.4A	A	
B	D-4	24				ST-O	Q	8.1.4A		
		MO				V	2Y	8.1.4A		
2-SW-V102	D-2537 sh. 2	BF	--	C	OC	ST-O	Q	8.1.4A	A	
B	D-1	24				ST-C	Q	8.1.4A		
		MO				V	2Y	8.1.4A		
2-SW-V103	D-2537 sh. 2	BF	--	O	C	ST-C	Q	8.1.4A	A	
B	E-8	20				V	2Y	8.1.4A		
		MO								
2-SW-V105	D-2537 sh. 2	BF	--	C	O	ST-O	Q	8.1.4B	A	
B	E-7	24				V	2Y	8.1.4B		
		MO								
2-SW-V106	D-2537 sh. 1	BF	--	O	C	ST-C	Q	8.1.4A	A	
B	F-7	20				V	2Y	8.1.4A		
		MO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-SW-V111	D-2537 sh. 1	BF	-	C	OC	ST-O	Q	24.1.2	A	
B	C-2	6				ST-C	Q	24.1.2		
		MO				V	2Y	24.1.2		
2-SW-V117	D-2537 sh. 2	BF	-	C	O	ST-O	Q	24.1.2	A	
B	C-7	6				V	2Y	24.1.2		
		MO								
2-SW-V118	D-2537 sh. 1	BF	-	O	OC	ST-C	Q	24.1.2	A	
B	B-6	6				ST-O	Q	24.1.2		
		MO				V	2Y	24.1.2		
2-SW-V123	D-2537 sh. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	D-7	2				F	Q	24.1.2		
		AO								
2-SW-V124	D-2537 sh. 2	BF	O	C	O	ST-O	Q	24.1.2	A	
B	B-6	6				F	Q	24.1.2		
		AO								



<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-V125	D-2537 sh. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-4	1				F	Q	24.1.2		
		AO								
2-SW-V126	D-2537 sh. 2	PG	O	C	O	ST-O	Q	24.1.2	A	
B	A-5	1				F	Q	24.1.2		
		AO								
2-SW-V128	D-2537 sh. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
B	C-2	2				F	Q	24.1.2		
		AO								
2-SW-V129	D-2537 sh. 1	BF	O	C	O	ST-O	Q	24.1.2	A	
B	B-3	6				F	Q	24.1.2		
		AO								
2-SW-V13	D-2041 sh. 1	BF	-	O	OC	ST-O	Q	24.1-2	A	
B	E-3	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-SW-V130 B	D-2537 sh. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
	A-5	1				F	Q	24.1.2		
		AO								
2-SW-V131 B	D-2537 sh. 1	PG	O	C	O	ST-O	Q	24.1.2	A	
	A-4	1				F	Q	24.1.2		
		AO								
2-SW-V136 B	D-2537 sh. 1	PG	O	C	O	ST-O	Q	8.1.4A	A	
	E-5	1.5				F	Q	8.1.4A		
		AO				V	2Y	8.1.4A		
2-SW-V137 B	D-2537 sh. 1	PG	O	C	O	ST-O	Q	8.1.4A	A	
	E-7	1.5				F	Q	8.1.4A		
		AO				V	2Y	8.1.4A		
2-SW-V138 B	D-2537 sh. 2	PG	O	C	O	ST-O	Q	8.1.4B	A	
	E-2	1.5				F	Q	8.1.4B		
		AO				V	2Y	8.1.4B		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-V139	D-2537 sh. 2	PG	O	C	O	ST-O	Q	8.1.4B	A	
B	E-4	1.5				F	Q	8.1.4B		
		AO				V	2Y	8.1.4B		
2-SW-V14	D-2041 sh. 1	BF	--	C	OC	ST-O	Q	24.1-2	A	
B	E-1	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		
2-SW-V144	D-2537 sh. 2	CK	--	--	C	DA	SP	11.1.2.3	A	
C	D-1	1.5								
		SA								
2-SW-V148	D-2537 sh. 2	CK	--	--	C	DA	SP	11.1.2.3	A	
C	D-2	1.5								
		SA								
2-SW-V15	D-2041 sh. 1	BF	--	O	OC	ST-O	Q	24.1-2	A	
B	E-5	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests		Procedures	Active/Passive
			fail_	normal	safety		Frequency			
2-SW-V16	D-2041 sh. 1	BF	-	C	OC	ST-O	Q	24.1-2	A	
B	E-4	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		
2-SW-V17	D-2041 sh. 1	BF	-	O	OC	ST-O	Q	24.1-2	A	
B	E-7	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		
2-SW-V18	D-2041 sh. 1	BF	-	C	OC	ST-O	Q	24.1-2	A	
B	E-6	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1.2		
2-SW-V19	D-2041 sh. 2	BF	-	O	OC	ST-O	Q	24.1-2	A	
B	E-1	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1-2		
2-SW-V20	D-2041 sh. 2	BF	-	O	OC	ST-O	Q	24.1-2	A	
B	E-4	20				ST-C	Q	24.1-2		
		MO				V	2Y	24.1-2		

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Frequency		Procedures	Active/Passive
			fail_	normal	safety						
2-SW-V21 C	D-2041 sh. 1 D-1	CK 20 SA		OC	OC	V-06	CV-P DA	Q SP	24.1-2 11.1.2.3	A	
2-SW-V22 C	D-2041 sh. 1 D-4	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-2 11.1.2.3	A	
2-SW-V23 C	D-2041 sh. 1 D-6	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-2 11.1.2.3	A	
2-SW-V24 C	D-2041 sh. 1 D-1	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-2 11.1.2.3	A	
2-SW-V25 C	D-2041 sh. 2 D-4	CK 20 SA	--	OC	OC	V-06	CV-P DA	Q SP	24.1-2 11.1.2.3	A	

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-V294	D-2041 sh. 1	BF	--	C	C	ST-C	Q	24.1.2	A	
B	F-7	10				V	2Y	24.1.2		
		MO								
2-SW-V295	D-2041 sh. 2	BF	--	O	C	ST-C	Q	24.1.2	A	
B	F-2	10				V	2Y	24.1.2		
		MO								
2-SW-V3	D-2041 sh. 2	BF	--	O	C	CSJ-11	ST-C	24.4	A	
B	F-7	30				V	2Y	24.4		
		MO								
2-SW-V36	D-2041 sh. 1	BF	--	O	C	CSJ-12	ST-C	24.4	A	
B	F-3	4				V	2Y	24.4		
		MO								
2-SW-V37	D-2041 sh. 1	BF	--	O	C	CSJ-12	ST-C	24.4	A	
B	F-3	4				V	2Y	24.4		
		MO								

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-V4 B	D-2041 sh. 2 F-7	BF 30 MO	--	O	C	CSJ-11	ST-C V	C 2Y	24.4 24.4	A
2-SW-V679 B	D-2274 SH. 1 C-3	BF 6 MO	--	C	O		ST-O	Q	1-MST- SW12Q	A
2-SW-V680 B	D-2274 SH. 1 C-7	BF 6 MO	--	C	O		ST-O	Q	1-MST- SW12Q	A
2-SW-V681 B	D-2274 sh. 2 C-3	BF 6 MO	--	C	O		ST-O	Q	2-MST- SW12Q	A
2-SW-V682 B	D-2274 sh. 2 C-7	BF 6 MO	--	C	O		ST-O	Q	2-MST- SW12Q	A

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-SW-V683 C	D-2274 SH. 1 C-3	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	1-MST- SW12Q 11.1.2.3	A
2-SW-V684 C	D-2274 SH. 1 C-7	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	1-MST- SW12Q 11.1.2.3	A
2-SW-V685 C	D-2274 sh. 2 C-3	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	2-MST- SW12Q 11.1.2.3	A
2-SW-V686 C	D-2274 sh. 2 C-6	CK 6 SA	--	C	O	V-13 V-13	CV-P DA	Q SP	2-MST- SW12Q 11.1.2.3	A
2-VA-2A-BFCV-RB C	F-4073 sh. 1 D-1	BC 18 SA		OC	OC		CV-O CV-C	Q Q	15.7 15.7	A



Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-VA-2A-BFIV-RB	F-4073 sh. 2	BF	--	C	C	V-23	ST	Q	04.1.1	A
N/A	F-7	54				V-23	ST-C	R	15.4A	
		AO								
2-VA-2A-BFV-RB	F-4073 sh. 3	BF	--	C	C		ST-C	Q	15.7	A
B	F-2	24					V	2Y	15.7	
		MO								
2-VA-2A-CV-CB	F-4080		--	O	-					
C	C-3	54								
		SA								
2-VA-2B-BFCV-RB	F-4073 sh. 3	BC	--	OC	OC		CV-O	Q	15.7	A
C	D-5	18					CV-C	Q	15.7	
		SA								
2-VA-2B-BFIV-RB	F-4073 sh. 2	BF	--	C	C	V-23	ST	Q	04.1.1	A
N/A	F-7	54				V-23	ST-C	R	15.4A	
		AO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-VA-2B-BFV-RB	F-4073 sh. 3	BF		O	O		ST-O	Q	15.7	A
B	D-1	18					V	2Y	15.7	
		MO								
2-VA-2B-CV-CB	F-4080		--	-	-					
C	C-5	48								
		SA								
2-VA-2C-BFIV-RB	F-4073 sh. 2	BF	--	C	C	V-23	ST	Q	04.1.1	A
N/A	E-2	54				V-23	ST-C	R	15.4A	
		AO								
2-VA-2C-BFV-RB	F-4073 sh. 3	BF	--	O	O		ST-O	Q	15.7	A
B	D-4	18					V	2Y	15.7	
		MO								
2-VA-2D-BFIV-RB	F-4073 sh. 2	BF	--	C	C	V-23	ST	Q	04.1.1	A
N/A	E-2	54				V-23	ST-C	R	15.4A	
		AO								

Valveid Category	drawing_number drawing_coord	type size (in.) actuator	Valve Positions			Relief Requests	Tests	Procedures		Active/Passive
			fail_	normal	safety			Frequency		
2-VA-2D-BFV-RB B	F-4073 sh. 3 E-4	BF	--	OC	OC	ST-O	Q	15.7	A	
		18				ST-C	Q	15.7		
		MO				V	2Y	15.7		
2-VA-2E-BFV-RB B	F-4073 sh. 3 D-5	BF	--	C	O	ST-O	Q	15.7	A	
		18				V	2Y	15.7		
		MO								
2-VA-2F-BFV-RB B	F-4073 sh. 3 E-6	BF	--	C	OC	ST-O	Q	15.7	A	
		18				ST-C	Q	15.7		
		MO				V	2Y	15.7		
2-VA-2G-BFV-RB B	F-4073 sh. 3 D-8	BF	--	O	O	ST-O	Q	15.7	A	
		18				V	2Y	15.7		
		MO								
2-VA-2H-BFV-RB B	F-4073 sh. 3 E-8	BF	--	OC	OC	ST-O	Q	15.7	A	
		18				ST-C	Q	15.7		
		MO				V	2Y	15.7		

<i>Valveid Category</i>	<i>drawing_number drawing_coord</i>	<i>type size (in.) actuator</i>	<i>Valve Positions</i>			<i>Relief Requests</i>	<i>Tests</i>		<i>Procedures</i>	<i>Active/Passive</i>
			<i>fail_</i>	<i>normal</i>	<i>safety</i>		<i>Frequency</i>			
2-VA-2I-BFV-RB	F-4073 sh. 3	BF		C	C	ST-C	Q	15.7		A
B	F-6	30				V	2Y	15.7		
		MO								

**ENCLOSURE 4**

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62  
PROGRAM SCOPE ISSUES AND RELIEF REQUESTS ASSOCIATED WITH THIRD  
10-YEAR INTERVAL INSERVICE TESTING PROGRAM  
(NRC TAC NOS. MA1115 AND MA1116)**

**Refueling Justification RFJ-23**

**SYSTEM:**

Residual Heat Removal (D-02547, D-25047)  
Fuel Pool Cooling (D-02549, D-25049 )

**COMPONENTS:**

1-E11-V39 and 1- E11-V40  
2-E11-V39 and 2- E11-V40  
1-G41-F004 and 2-G41-F004  
1-G41-F016 and 2-G41-F016  
1-G41-F036 and 2-G41-F036

**CATEGORY:**

B

**CLASS:**

3 and non-class

**TEST REQUIREMENT:**

Valves shall be exercised nominally every three months (Part 10, Paragraph 4.3.2.1).

**BASIS:**

The fuel pool cooling assist mode of the Residual Heat Removal (RHR) system is no longer used; therefore, the valves are used as a boundary rather than used in response to mitigating the consequences of an accident. These valves only have a function during a refueling outage with a full core offload. BSEP uses the Supplemental Fuel Pool Cooling system for heat removal during refueling outages. Regulatory Guide 1.13, "Spent Fuel Storage Facility Design Basis," specifies the availability of a seismically qualified source of fuel pool makeup, and the RHR system fuel pool assist mode flow path was used to satisfy this requirement. However, seismic fuel pool makeup from sources other than RHR system fuel pool assist mode are described in plant procedure 0AOP-38, "Loss of Fuel Pool Cooling."

Section 2.4.5, "Deferring Valve Testing to Cold Shutdown or Refueling Outages," of NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants," notes that OM-10 allows for a refueling outage test frequency if it is impractical to conduct testing quarterly while in operation and during cold shutdown. NUREG-1482 further notes that these valves should be listed in the Inservice Testing (IST) Program and refueling outage justifications included for each valve or valve group affected. NUREG-1482 includes examples of impractical conditions, including "radiation exposure and personnel safety in

certain plant modes." These valves are located in the mezzanine over High Pressure Coolant Injection turbine room , the Locked High Radiation Area on Reactor Building 80-foot east, and in the Reactor Building 9-foot, in radiation fields that range from 40 to 300 mR per hour. Quarterly stroking of these valves results in an estimated accumulation of 250 mR.

Based on these valves only having a function during a refueling outage, as well the personnel radiation exposure associated with quarterly testing of these valves, and the guidance contained in NUREG-1482 with respect to deferring testing to refueling outages, testing of these valves on a refueling frequency if not performed within the last 92 days (i.e., prior to their use) is justified.

**ALTERNATE TESTING:**

The appropriate valves will be stroked as a prerequisite to going into the RHR system fuel pool cooling assist mode. This is a step already included in plant procedure OP-17, which directs performing periodic testing in accordance with plant procedure OPT-8.0c, if it has not been done within the last 92 days. Otherwise, cycling of these valves on a refueling frequency will constitute appropriate application of OM-10 with due regard for "as low as reasonably achievable" principles.