

ATTACHMENT 12**ComEd IST Program Technical Position
Check Valve Condition Monitoring****Purpose**

The purpose of this technical position is to provide the Corporate Inservice Testing (IST) Program position on implementing a check valve condition monitoring program. The condition monitoring process allows certain flexibility in establishing the types of tests, examination, and preventative maintenance activities and their associated intervals, when justified based on the valve's performance and operating condition.

Background

10CFR50.55a was revised 11/22/99 to endorse the ASME OMa-1996 Code which includes provisions (Appendix II) for implementing a check valve condition monitoring program for IST Check valves. A letter dated April 18, 2000 was sent to the NRC requesting approval to implement the check valve portion of the ASME OM Code-1995 Edition, 1996 Addenda, at all ComEd Nuclear Stations. By letter dated June 7, 2000 the NRC approved ComEd to implement ASME OMa-1996 and the modifications required to implement Appendix II for all check valves at all ComEd Stations. Corporate Engineering Programs issued Nuclear Engineering Standard NES-MS-08.5, Condition Monitoring for Inservice Testing of Check Valves on June 30, 2000.

Position

- All ComEd Stations will perform check valve testing in accordance with the ASME OMa-1996 Code, including Appendix II.
- Full implementation of the ASME OMa-1996 Code will be completed by September 1, 2001 (Reference 8 and 9).
- Check valves not included in the Appendix II program will be tested to the requirements of ASME OMa-1996 Code, ISTC 4.5.1 through 4.5.4.
- Referencing this technical position in the program plan indicates that test requirements for a check valve are supported by a condition monitoring plan meeting Reference 6 requirements.
- The following modifications to Appendix II are required by the NRC (Reference 9 and 10).
 - Valve opening and closing functions must be demonstrated when flow testing or examination methods (e.g., nonintrusive or disassembly and inspection) are used.
 - The initial interval for tests and associated examinations will not exceed two fuel cycles or 3 years, whichever is longer. Any extension of this interval will not exceed one fuel cycle per extension with the maximum interval not to exceed 10 years. Trending and evaluation of existing data will be used to reduce or extend the time interval between tests.
 - If the Appendix II condition monitoring program is discontinued, then the requirements of ISTC 4.5.1 through 4.5.4 must be implemented.

- Check valve condition monitoring plans shall be developed in accordance with Nuclear Engineering Standard NES-MS-08.5, Condition Monitoring for Inservice Testing of Check Valves.

Justification

- The NRC recently endorsed the ASME OM Code-1995 Edition, 1996 Addenda (Reference 3 and 10) which allows the use of Appendix II as an alternative to certain check valve testing requirements in Subsection ISTC of the OM Code.
- ComEd implementation of ASME OMa-1996 (including the modifications required to implement Appendix II) for all check valves at all ComEd Stations was approved by NRC letter dated June 7, 2000.
- Implementation of condition monitoring for check valves provides the opportunity to optimize check valve testing requirements for valves in the IST program as discussed in Reference 6.

References

1. NSP-ER-3015, "Inservice Testing Program Implementing Procedure"
2. ER-AA-321, "Administrative Requirements for Inservice Testing"
3. ASME OMa Code-1996 Addendum to OM Code-1995 Edition, Appendix II, "Check Valve Condition Monitoring Program"
4. Nuclear Engineering Standard NES-MS-08.2, "Inservice Testing Plan Format and Content"
5. Nuclear Engineering Standard NES-MS-08.1, "Inservice Testing Bases Document Format and Content"
6. Nuclear Engineering Standard NES-MS-08.5, "Condition Monitoring for Inservice Testing of Check Valves"
7. ER-AA-400, "Check Valve Monitoring and Preventive Maintenance Program"
8. ComEd letter dated April 18, 2000 to the NRC, "Request to implement a Portion of the 1995 Edition and the 1996 Addenda of the ASME Code for Operation and Maintenance of Nuclear Power Plants Regarding Appendix II, "Check Valve Condition Monitoring Program"
9. Nuclear Regulator Commission letter dated June 7, 2000, "Approval to Implement a Check Valve Inservice Testing Program Using ASME OM Code-1995 Edition, OMa-1996 Addenda at the Commonwealth Edison Company Nuclear Stations (TAC Nos. MA8703, MA8704, MA8715, MA8716, MA8717, MA8718, MA8803, MA8804, MA8733, and MA8734)"
10. Nuclear Regulatory Commission Final Rule 10CFR Part 50 "Industry Codes and Standards; Amended Requirements," (64 FR 63892) dated September 22, 1999

Assumptions

None

Status

Final

Prepared by:



8/30/00

John Feigl

Dresden IST Coordinator

Reviewed by:



8/30/00

Brian D. Bunte

Corporate IST Program Manager

**Exelon IST Program Technical Position
Non-Safety Check Valve Exercise Testing By Normal Operations**

Purpose

The purpose of this Technical Position is to establish the Company position for the verification of the non-safety exercise testing of check valves by normal plant operations. This is applicable to check valves in the Inservice Testing (IST) Program as related to the ASME OMa Code-1996 Addenda to the ASME OMa Code-1995.

Applicability

This Technical Position is NOT applicable to testing the safety function (position) of IST Check Valves. Safety function here means the function of the valve that meets a scoping requirement to be in the IST Program. This Technical Position is applicable to testing the **non-safety function** (position) of IST check valves. This Technical Position is applicable to check valves tested under Subsection ISTC, and to Appendix II (Condition Monitoring), of the ASME OMa Code-1996 Addenda.

Background

The ASME OMa Code-1996 Addenda in section ISTC 4.5.3, "Valves in Regular Use," states the following:

"Check valves that operate in the course of plant operation at a frequency that would satisfy the exercising requirements of this Subsection need not be additionally exercised if the observations otherwise required for testing are made and analyzed during such operation and are recorded in the plant records at intervals not greater than specified in para. ISTC 4.5.1."

Section 4.5.1 indicates that check valves shall be exercised nominally every 3 months with exceptions (for extended exercise periods) referenced.

Section 4.5.4 (2) states that,

"Check valves that have a safety function in only the open direction shall be exercised by initiating flow and observing that the obturator has traveled to either the full open position or to the position required to perform its intended function(s) (see para. ISTC 1.1), and verify closure."

Section 4.5.4 (3) states that,

“Check valves that have a safety function in only the close direction shall be exercised by initiating flow and observing that the obturator has traveled to at least the partially open position²,...”

Footnote 2 to this section indicates that the partially open position should correspond to the normal or expected system flow. NOTE: “Normal or expected,” system flow rate may vary with plant conditions and configurations. The open safety function of a check valve usually requires meeting a specified, required limiting accident flow rate. As Operators are trained in recognizing normal plant conditions, Operator judgement is acceptable in ascertaining whether the non-safety open check valve position is providing normal or expected flow rates or plant conditions.

As stated in these two sections the non-safety function is satisfactorily demonstrated by verifying closure, or passing normal or expected flow to verify opening, as applicable.

Position

Verification of the non-safety position of IST check valves may be performed through the execution of a dedicated surveillance. Alternately this verification may be satisfied as follows:

- ◆ An appropriate means shall be determined which establishes how the open/closed non-safety function of the specified check valve is demonstrated during normal operations. The position determination may be by direct indicator, or by other positive means such as changes in system pressure, flow rate, level, temperature, seat leakage, etc. This determination shall be documented in the respective Condition Monitoring Plan in the “Bases for Testing and Inspection Strategy,” for valves in the Condition Monitoring Program. For check valves governed by Subsection ISTC and not in Condition Monitoring this determination shall be documented in the respective IST Bases Document valve group in the, “Bases Statement,” section.
- ◆ Automated processes may be used to provide for the “observation and analysis,” that a check valve is appropriately satisfying its’ non-safety position function. An example of this would be a check valve that has a safety function in only the close direction and normally has flow through it to maintain normal plant operations. If the check valve is not opening to pass flow, alarms or indications would identify the problem to the Operator who is trained to respond to such situations and take appropriate actions. Condition Reports are normally written for abnormal plant conditions attributable to material condition concerns such as check valve failures.
- ◆ The “observation and analysis,” of logs and other such records is satisfied by Operator reviews. Operating personnel are trained to look for off-normal data and adverse trends and take actions as appropriate. This would effectively determine if a check valve were satisfactorily fulfilling its’ non-safety function.
- ◆ The open/closed non-safety function shall be recorded at a periodicity required by ISTC 4.5.1, with exceptions as provided, in plant records such as Operator logs, Electronic Rounds, chart recorders, automated data loggers, etc. NOTE: The safety

function testing of these valves constitutes requiring a Quality Record. Records as indicated above are appropriate for the non-safety testing. Should any concerns arise regarding the material condition/operation of these check valves a Condition Report is written which is a Quality Record. The method in which the check valve position is recorded shall be included in the Condition Monitoring Plan or Bases Document sections as indicated above.

Justification

This Technical Position requires that the method of determining the non-safety position be established. The plant systems and Operator actions provide for the observations and analysis that the valve is satisfying its' non-safety function. Finally, the recording of parameters demonstrating valve position is satisfied at a frequency specified in ISTC 4.5.1. These actions collectively satisfy demonstrating the non-safety position of IST check valves in regular use as required by ISTC 4.5.3.

Assumptions

None

Status

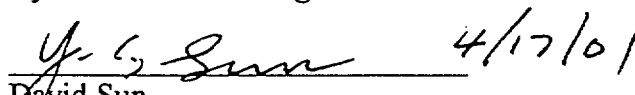
Final

Prepared by:

 4/9/01
William A. Bielasco

Byron Station IST Engineer

Reviewed by:

 4/17/01
David Sun

Exelon IST Program Manager

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**Exelon IST Program Technical Position
Justification for Exception to Exercise Check Valves after Reassembly**

Code Requirements

The governing Code for this issue is found in the ASME OMa Code –1996 Addenda to ASME OM Code-1995, “Code for Operation and Maintenance of Nuclear Power Plants, Section ISTC, “Rules for Inservice Testing of Light-Water Reactor Power Plants.”

Subsection ISTC, “Inservice Testing of Valves in Light-Water Reactor Power Plants,” para. ISTC 6.2, “Test Plans,” subpara. (e) requires documenting for check valves, “...justification for not performing an exercise test to at least a partially open position after reassembly or periodic exercising in accordance with para. ISTC 4.5.2;”

Subsection ISTC, “Inservice Testing of Valves in Light-Water Reactor Power Plants,” para. ISTC 4.5.4 subpara. (c)(4) states, “Before return to service, valves that were disassembled for examination or that received maintenance that could affect their performance, shall be exercised if practicable (see nonmandatory Appendix J, Check Valve Testing Following Valve Reassembly)”.

Discussion of Code Requirement

Performing a partial open exercise after reassembly provides some assurance of the functionality of the check valve and that it has been installed in the proper flow direction.

Position

There are numerous measures in place to assure that check valves are maintained properly and installed in the proper orientation and flow direction. As such there is justification to not exercise the check valves after reassembly.

Justification

The following justifications demonstrate that exercising check valves after reassembly is unnecessary.

Match Marking: Match marking is the maintenance activity where the component (such as a check valve) and adjoining pipe section are marked adjacently. When the component is reinstalled it is done so the match marks align. This assures the component was reinstalled in the proper orientation/flow direction as when it was removed. The Nuclear Generation Group Maintenance Standards under “Expectations,” regarding the execution of work states that parts should be match

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marked prior to disassembly to ensure proper orientation upon reassembly. Periodically a "Scorecard," which is a checklist used for supervisory oversight to assure proper maintenance practices, is performed. The Scorecard has an item requiring assessment that components have been match marked prior to disassembly to help ensure proper reassembly. During practical exercises in the training of maintenance workers they are assessed to assure that they follow match-marking practices where appropriate.

Procedures/Work Instructions: There are detailed procedures and work instructions to address that check valve maintenance, reassembly, and reinstallation is properly conducted.

Maintenance Oversight: Maintenance First Line Supervisors are expected to provide adequate oversight to assure the work is properly conducted

Quality Assurance Program: A 10 CFR 50 Appendix B, Quality Assurance Program, is utilized at the stations to assure those quality standards are maintained.

Foreign Material Exclusion: A rigorous Foreign Material Exclusion program exists to assure no adverse impact to systems and components due to such intrusions. Keeping foreign material out of check valves assures they will not have their stroking or closure adversely impacted by those materials.

Training: Maintenance personnel are properly trained to assure they have the proper skills and follow procedures and instructions in working on plant components.

Condition Reports: Problems and concerns including those in the maintenance area are captured with Condition Reports. These are part of the corrective actions program to address such concerns.

Engineering Inspections: Engineering inspections are frequently performed to procedures and checklists to assure proper check valve maintenance and function. In addition to numerous checks to assess the material condition and functionality of the check valve, part of the Engineering inspection is to assess "as-found" and "as-left" manual full stroke capability.

Oversight Activities: Oversight activities by Quality Control, Nuclear Oversight, and other oversight organizations periodically review maintenance activities. This process helps assure the maintenance program is adequately functioning.

Applicability

This Technical Position applies to all MWROG nuclear power plants except Clinton Station.

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Conclusion:

There are adequate measures in place to justify that partially open testing check valves after reassembly need not be performed.

Assumptions

None

Status

Final

Exelon IST Program Technical Position Classification of Skid Mounted Components

Purpose

The purpose of this technical position is to clarify requirements for classification of various components including Diesel Oil Transfer Pumps as skid mounted components, and to clarify testing requirements of check valves designated as skid mounted.

Background

The ASME Code allows classification of some components as skid mounted when their satisfactory operation is demonstrated by the performance of major components. Testing of the major component is sufficient to satisfy IST testing requirements for skid mounted components. In the 1996a addenda to the ASME OM Code (endorsed by 10CFR50.55(a) in October 2000), the term skid-mounted was clarified by the addition of ISTA paragraph 1.7:

ISTA 1.7 Definitions

Skid mounted components and component sub assemblies – components integral to or that support operation of major components, even though these components may not be located directly on the skid. In general, these components are supplied by the manufacturer of the major component. Examples include: diesel skid-mounted fuel oil pumps and valves, steam admission and trip throttle valves for high-pressure coolant injection or auxiliary feedwater turbine-driven pumps, and solenoid-operated valve provided to control the air-operated valve.

This definition was further clarified in the 1998 ASME OM Code:

ISTA-2000 DEFINITIONS

Skid mounted pumps and valves – pumps and valves integral to or that support operation of major components, even though these components may not be located directly on the skid. In general, these pumps and valves are supplied by the manufacturer of the major component. Examples include:

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

In section 3.4 of NUREG 1482, the NRC supports the designation of components as skid mounted:

The staff has determined that the testing of the major component is an acceptable means for verifying the operational readiness of the skid-mounted and component subassemblies if the licensee documents this approach in the IST Program. This is acceptable for both Code class components and non-Code class components tested and tracked by the IST Program.

Subsection ISTC of OMa-1996, "Inservice Testing of Valves in Light-Water Reactor Power Plants", Paragraph 1.2, "Exclusions" states:

"....Skid-mounted valves and component subassemblies are excluded from this Subsection provided they are tested as part of the major component and are determined by the Owner to be adequately tested."

Position

The 1998 ASME OM Code definition of skid mounted should be used for classification of components in the Exelon Inservice Testing Program. In addition, for a component to be considered skid mounted:

- ◆ The major component associated with the skid mounted component must be surveillance tested at a frequency sufficient to meet ASME OM Code test frequency for the skid mounted component.
- ◆ Satisfactory operation of the skid mounted component must be demonstrated by satisfactory operation of the major component.
- ◆ The IST Bases Document should describe the bases for classifying a component as skid mounted, and the IST Program Plan should reference this technical position for the component.

For Stations committed to the 1996 addenda of the 1995 OM Code for Inservice Exercise Testing of Category C Check Valves (ISTC 4.5 and Appendix II), testing as required by ISTC 4.5 does not apply for check valves designated as skid mounted.

Justification

Classification of components as skid mounted eliminates the need for testing of sub components that are redundant with testing of major components provided testing of the major components demonstrates satisfactory operation of the "skid mounted" components.

As recognized in section 3.4 of NUREG 1482:

Various pumps and valves procured as part of larger component subassemblies are often not designed to meet the requirements for components in ASME code classes 1, 2, and 3.

References

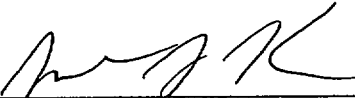
All references are called out in the text of the technical position.

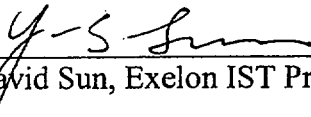
Assumptions

None

Status

Final

Prepared by:  6/8/01
John Kowalski, LaSalle IST Program Coordinator

Reviewed by:  6/8/01
David Sun, Exelon IST Program Manager

ATTACHMENT 13

INSERVICE TESTING PUMP TABLE INDEX

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<u>System Number</u>	<u>System Description</u>
AF	Auxiliary Feedwater
CC	Component Cooling
CS	Containment Spray
CV	Chemical and Volume Control
DO	Diesel Oil
RH	Residual Heat Removal
SI	Safety Injection
SX	Essential Service Water
WO	Chilled Water

ATTACHMENT 14

INSERVICE TESTING PUMP TABLE

Auxiliary Feedwater (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1AF01PA	3	C	MOTOR		M-37	D4	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name AUXILIARY FEEDWATER 1A PUMP (MOTOR)												
1AF01PB	3	C	MOTOR		M-37	B4	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Speed (setpoint)	M3				
							Vibration	M3				
Pump Name AUXILIARY FEEDWATER 1B PUMP (DIESEL)												
2AF01PA	3	C	MOTOR		M-122	E5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name AUXILIARY FEEDWATER 2A PUMP (MOTOR)												
2AF01PB	3	C	MOTOR		M-122	B5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Speed (setpoint)	M3				
							Vibration	M3				
Pump Name AUXILIARY FEEDWATER 2B PUMP (DIESEL)												

Component Cooling Water (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
0CC01P	3	C	MOTOR	N/A	M-66-3A	E-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name COMPONENT COOLING COMMON PUMP												
1CC01PA	3	C	MOTOR	N/A	M-66-3A	E-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name COMPONENT COOLING PUMP 1A												
1CC01PB	3	C	MOTOR	N/A	M-66-3A	E-7	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name COMPONENT COOLING PUMP 1B												
2CC01PA	3	C	MOTOR	N/A	M-66-3A	E-3	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name COMPONENT COOLING PUMP 2A												
2CC01PB	3	C	MOTOR	N/A	M-66-3A	E-2	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name COMPONENT COOLING PUMP 2B												

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Containment Spray (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1CS01PA	2	C	MOTOR		M-46-1A	E5	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name CONTAINMENT SPRAY PUMP												
1CS01PB	2	C	MOTOR		M-46-1A	B5	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name CONTAINMENT SPRAY PUMP												
2CS01PA	2	C	MOTOR		M-129	E5	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name CONTAINMENT SPRAY PUMP												
2CS01PB	2	C	MOTOR		M-129	B5	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name CONTAINMENT SPRAY PUMP												

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Chemical and Volume Control (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1CV01PA	2	C			M-64-3A	D-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name CENTRIFUGAL CHARGING PUMP												
1CV01PB	2	C			M-64-3A	C-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name CENTRIFUGAL CHARGING PUMP												
2CV01PA	2	C			M-138	D-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name CENTRIFUGAL CHARGING PUMP												
2CV01PB	2	C			M-138	C-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name CENTRIFUGAL CHARGING PUMP												

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Diesel Fuel Oil (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1DO01PA	3	PD	MOTOR	N/A	M-50-1B	E-4	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
1DO01PB	3	PD	MOTOR	N/A	M-50-1A	E-4	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
1DO01PC	3	PD	MOTOR	N/A	M-50-1B	E-4	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
1DO01PD	3	PD	MOTOR	N/A	M-50-1A	E-4	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
2DO01PA	3	PD	MOTOR	N/A	M-130-1A	C-5	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
2DO01PB	3	PD	MOTOR	N/A	M-130-1B	C-5	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
2DO01PC	3	PD	MOTOR	N/A	M-130-1A	C-5	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												
2DO01PD	3	PD	MOTOR	N/A	M-130-1B	C-5	Discharge Pressure	M3				
							Flow	M3				
							Vibration	M3				
Pump Name DIESEL FUEL OIL TRANSFER PUMP												

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Residual Heat Removal (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1RH01PA	2	C	MOTOR	N/A	M-62	E-3	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name RESIDUAL HEAT REMOVAL PUMP												
1RH01PB	2	C	MOTOR	N/A	M-62	B-3	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name RESIDUAL HEAT REMOVAL PUMP												
2RH01PA	2	C	MOTOR	N/A	M-137	E-3	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name RESIDUAL HEAT REMOVAL PUMP												
2RH01PB	2	C	MOTOR	N/A	M-137	B-3	Differential Pressure	M3			PA-4	
							Flow (setpoint)	M3			PA-4	
							Vibration	M3			PA-4	
Pump Name RESIDUAL HEAT REMOVAL PUMP												

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Safety Injection (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1SI01PA	2	C	MOTOR		M-61	E-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name SAFETY INJECTION PUMP												
1SI01PB	2	C	MOTOR		M-61	C-5	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name SAFETY INJECTION PUMP												
2SI01PA	2	C	MOTOR		M-136	D-4	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name SAFETY INJECTION PUMP												
2SI01PB	2	C	MOTOR		M-136	B-4	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name SAFETY INJECTION PUMP												

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Essential Service Water (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
1SX01PA	3	C	MOTOR		M-42-1B	E-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name ESSENTIAL SERVICE WATER PUMP												
1SX01PB	3	C	MOTOR		M-42-1A	E-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name ESSENTIAL SERVICE WATER PUMP												
1SX04P	3	C	MOTOR		M-42-3	C-3	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Speed (setpoint)	M3				
							Vibration	M3				
Pump Name 1B DIESEL AFW ESW BOOSTER PUMP												
2SX01PA	3	C	MOTOR		M-42-1B	B-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name ESSENTIAL SERVICE WATER PUMP												
2SX01PB	3	C	MOTOR		M-42-1A	B-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
Pump Name ESSENTIAL SERVICE WATER PUMP												
2SX04P	3	C	MOTOR		M-126-1	C-6	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Speed (setpoint)	M3				
							Vibration	M3				
Pump Name 2B DIESEL AFW SX BOOSTER PUMP												

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Chilled Water (Page 1)

Pump EPN	Safety Class	Pump Type	Pump Driver	Nominal Speed	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	Notes
0WO01PA	3	C	MOTOR	N/A	M-118-1	D-7	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
							Pump Name CONTROL ROOM CHILLED WATER PUMP					
0WO01PB	3	C	MOTOR	N/A	M-118-1	B-7	Differential Pressure	M3				
							Flow (setpoint)	M3				
							Vibration	M3				
							Pump Name CONTROL ROOM CHILLED WATER PUMP					

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ATTACHMENT 15

INSERVICE TESTING VALVE TABLE INDEX

(Page 1 of 2)

<u>System Number</u>	<u>System Description</u>
AF	Auxiliary Feedwater
CC	Component Cooling
CS	Containment Spray
CV	Chemical and Volume Control
DG	Diesel Generator Starting Air (includes select Service Air valves)
DO	Diesel Oil
FC	Fuel Pool Cooling
FP	Fire Protection
FW	Feedwater
GW	Radioactive Waste Gas
IA	Instrument Air
MS	Main Steam
OG	Off Gas
RP	Process Radiation Monitoring
PS	Process Sampling
RC	Reactor Coolant (includes select Pressurizer (RY) valves)
RE	Reactor Building and Containment Equipment Drains
RF	Reactor Building and Containment Floor Drains

ATTACHMENT 15

INSERVICE TESTING VALVE TABLE INDEX

(Page 2 of 2)

<u>System Number</u>	<u>System Description</u>
RH	Residual Heat Removal
SA	Service Air
SD	Steam Generator Blowdown
SI	Safety Injection
SX	Essential Service Water
VQ	Primary Containment Purge
WM	Make-up Demineralizer
WO	Chilled Water

ATTACHMENT 16

INSERVICE TESTING VALVE TABLE

Auxiliary Feedwater (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1AF001A	3	C	6	CK	SA	A	SYS	C	M-37	D-2	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name CST TO AUX FEEDWATER PUMP 1A SUCTION CHECK VALVE															
1AF001B	3	C	6	CK	SA	A	SYS	C	M-37	B-2	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name CST TO AUX FEEDWATER PUMP 1B SUCTION CHECK VALVE															
1AF003A	3	C	6	CK	SA	A	SYS	O	M-37	D-4	CCA	CM			CW00-02
											COA	CM			CW00-02
											CPF	M3			CW00-02
Valve Name AUX FEEDWATER PUMP 1A DISCHARGE CHECK VALVE															
1AF003B	3	C	6	CK	SA	A	SYS	O	M-37	B-4	CCA	CM			CW00-02
											COA	CM			CW00-02
											CPF	M3			CW00-02
Valve Name AUX FEEDWATER PUMP 1B DISCHARGE CHECK VALVE															
1AF004A	3	B	6	GL	AO	P	O	O	M-37	D-5	PI	Y2			VA-4
Valve Name AUX FEEDWATER PUMP 1A DISCHARGE ISOLATION VALVE															
1AF004B	3	B	6	GL	AO	P	O	O	M-37	B-5	PI	Y2			VA-4
Valve Name AUX FEEDWATER PUMP 1B DISCHARGE ISOLATION VALVE															
1AF006A	3	B	6	GA	MO	A	C	O	M-37	E-3	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name AUX FEEDWATER PUMP 1A SX SUCT DWST ISOL VLV															
1AF006B	3	B	6	GA	MO	A	C	O	M-37	B-3	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name AUX FEEDWATER PUMP 1B SX SUCT DWST ISOL VLV															
1AF013A	2	B	4	GL	MO	A	O	O/C	M-37	D-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1A ISOL VLV															
1AF013B	2	B	4	GL	MO	A	O	O/C	M-37	A-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1B ISOL VLV															
1AF013C	2	B	4	GL	MO	A	O	O/C	M-37	E-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1C ISOL VLV															
1AF013D	2	B	4	GL	MO	A	O	O/C	M-37	B-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1D ISOL VLV															
1AF013E	2	B	4	GL	MO	A	O	O/C	M-37	D-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1A ISOL VLV															

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Auxiliary Feedwater (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1AF013F	2	B	4	GL	MO	A	O	O/C	M-37	B-7	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1B ISOL VLV															
1AF013G	2	B	4	GL	MO	A	O	O/C	M-37	E-7	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1C ISOL VLV															
1AF013H	2	B	4	GL	MO	A	O	O/C	M-37	C-7	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 1D ISOL VLV															
1AF014A	2	C	4	CK	SA	A	C	O/C	M-37	D-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1A CHECK VALVE															
1AF014B	2	C	4	CK	SA	A	C	O/C	M-37	A-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1B CHECK VALVE															
1AF014C	2	C	4	CK	SA	A	C	O/C	M-37	E-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1C CHECK VALVE															
1AF014D	2	C	4	CK	SA	A	C	O/C	M-37	B-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1D CHECK VALVE															
1AF014E	2	C	4	CK	SA	A	C	O/C	M-37	D-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1A CHECK VALVE															
1AF014F	2	C	4	CK	SA	A	C	O/C	M-37	B-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1B CHECK VALVE															
1AF014G	2	C	4	CK	SA	A	C	O/C	M-37	E-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1C CHECK VALVE															
1AF014H	2	C	4	CK	SA	A	C	O/C	M-37	C-8	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 1D CHECK VALVE															
1AF017A	3	B	6	GA	MO	A	C	O	M-37	F-3	PI SO	Y2 M3			VA-4 VA-1
Valve Name AUX FEEDWATER PUMP 1A SX SUCT UPST ISOL VLV															
1AF017B	3	B	6	GA	MO	A	C	O	M-37	C-3	PI SO	Y2 M3			VA-4 VA-1
Valve Name AUX FEEDWATER PUMP 1B SX SUCT UPST ISOL VLV															

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Auxiliary Feedwater (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1AF029A	3	C	6	CK	SA	A	SYS	O	M-37	C-5	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name AUX FEEDWATER PUMP 1A TO S/G CHECK VALVE															
1AF029B	3	C	6	CK	SA	A	SYS	O	M-37	B-5	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name AUX FEEDWATER PUMP 1B TO S/G CHECK VALVE															
2AF001A	3	C	6	CK	SA	A	SYS	C	M-122	E-7	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name CST TO AUX FEEDWATER PUMP 2A SUCTION CHECK VALVE															
2AF001B	3	C	6	CK	SA	A	SYS	C	M-122	B-7	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name CST TO AUX FEEDWATER PUMP 2B SUCTION CHECK VALVE															
2AF003A	3	C	6	CK	SA	A	SYS	O	M-122	E-5	CCA	CM			CW00-02
											COA	CM			CW00-02
											CPF	M3			CW00-02
Valve Name AUX FEEDWATER PUMP 2A DISCHARGE CHECK VALVE															
2AF003B	3	C	6	CK	SA	A	SYS	O	M-122	B-5	CCA	CM			CW00-02
											COA	CM			CW00-02
											CPF	M3			CW00-02
Valve Name AUX FEEDWATER PUMP 2B DISCHARGE CHECK VALVE															
2AF004A	3	B	6	GL	AO	P	O	O	M-122	E-5	PI	Y2			VA-4
Valve Name AUX FEEDWATER PUMP 2A DISCHARGE ISOLATION VALVE															
2AF004B	3	B	6	GL	AO	P	O	O	M-122	B-5	PI	Y2			VA-4
Valve Name AUX FEEDWATER PUMP 2B DISCHARGE ISOLATION VALVE															
2AF006A	3	B	6	GA	MO	A	C	O	M-122	E-6	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name AUX FEEDWATER PUMP 2A SX SUCT DWST ISOL VLV															
2AF006B	3	B	6	GA	MO	A	C	O	M-122	C-6	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP 2B SX SUCT DWST ISOL VLV															
2AF013A	2	B	4	GL	MO	A	O	O/C	M-122	D-2	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2A ISOL VLV															
2AF013B	2	B	4	GL	MO	A	O	O/C	M-122	A-2	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2B ISOL VLV															
2AF013C	2	B	4	GL	MO	A	O	O/C	M-122	E-2	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2C ISOL VLV															

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Auxiliary Feedwater (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2AF013D	2	B	4	GL	MO	A	O	O/C	M-122	C-2	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2D ISOL VLV															
2AF013E	2	B	4	GL	MO	A	O	O/C	M-122	E-2	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2A ISOL VLV															
2AF013F	2	B	4	GL	MO	A	O	O/C	M-122	B-2	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2B ISOL VLV															
2AF013G	2	B	4	GL	MO	A	O	O/C	M-122	F-2	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2C ISOL VLV															
2AF013H	2	B	4	GL	MO	A	O	O/C	M-122	C-2	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name AUX FEEDWATER PUMP DSCH HDR TO S/G 2D ISOL VLV															
2AF014A	2	C	4	CK	SA	A	C	O/C	M-122	D-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2A CHECK VALVE															
2AF014B	2	C	4	CK	SA	A	C	O/C	M-122	A-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2B CHECK VALVE															
2AF014C	2	C	4	CK	SA	A	C	O/C	M-122	E-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2C CHECK VALVE															
2AF014D	2	C	4	CK	SA	A	C	O/C	M-122	C-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2D CHECK VALVE															
2AF014E	2	C	4	CK	SA	A	C	O/C	M-122	E-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2A CHECK VALVE															
2AF014F	2	C	4	CK	SA	A	C	O/C	M-122	B-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2B CHECK VALVE															
2AF014G	2	C	4	CK	SA	A	C	O/C	M-122	F-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2C CHECK VALVE															
2AF014H	2	C	4	CK	SA	A	C	O/C	M-122	C-2	CCD COD	CM CM			CW00-02 CW00-02
Valve Name AUX FEEDWATER TO S/G 2D CHECK VALVE															

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Auxiliary Feedwater (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2AF017A	3	B	6	GA	MO	A	C	O	M-122	F-6	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name AUX FEEDWATER PUMP 2A SX SUCT UPST ISOL VLV															
2AF017B	3	B	6	GA	MO	A	C	O	M-122	C-6	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name AUX FEEDWATER PUMP 2B SX SUCT UPST ISOL VLV															
2AF029A	3	C	6	CK	SA	A	SYS	O	M-122	E-5	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name AUX FEEDWATER PUMP 2A TO S/G CHECK VALVE															
2AF029B	3	C	6	CK	SA	A	SYS	O	M-122	B-4	CCA	CM			CW00-02
											COA	CM			CW00-02
Valve Name AUX FEEDWATER PUMP 2B TO S/G CHECK VALVE															

Component Cooling Water (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0CC9464	3	C	12	CK	SA	A	SYS	O/C	M-66-3B	B-4	CC CO	M3 M3			
Valve Name CC PUMP DISCHARGE CHECK VALVE															
1CC070A	3	C	3	CK	SA	A	SYS	C	M-66-4A	C-7	CCD COD	CM CM			VA-9, 02 VA-9, 02
Valve Name CC SURGE TANK DEMIN MAKE UP CHECK VALVE															
1CC070B	3	C	3	CK	SA	A	SYS	C	M-66-4A	C-5	CCD COD	CM CM			VA-9, 02 VA-9, 02
Valve Name CC SURGE TANK PW MAKE UP CHECK VALVE															
1CC685	2	A	3	GA	MO	A	O	C	M-66-1A	B-4	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name RC PUMPS THERMAL BARRIER CC RETURN ISOLATION VALVE															
1CC9412A	3	B	12	GA	MO	A	C	O	M-66-2	D-3	PI SO	Y2 M3			VA-4 VA-1
Valve Name RH HEAT EXCHANGER CC OUTLET ISOLATION VALVE															
1CC9412B	3	B	12	GA	MO	A	C	O	M-66-2	F-3	PI SO	Y2 M3			VA-4 VA-1
Valve Name RH HEAT EXCHANGER CC OUTLET ISOLATION VALVE															
1CC9413A	2	A	6	GA	MO	A	O	C	M-66-1A	E-3	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC SUPPLY TO RC PUMPS ISOLATION VALVE															
1CC9414	2	A	6	GA	MO	A	O	C	M-66-1A	A-4	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE															
1CC9415	3	B	16	GA	MO	A	O	C	M-66-4D	C-6	PI SC	Y2 CS		CS-19	VA-4 VA-1
Valve Name NON-ESSENTIAL CC LOAD ISOLATION VALVE															
1CC9416	2	A	6	GA	MO	A	O	C	M-66-1A	A-6	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE															
1CC9437A	2	B	3	GL	AO	A	SYS	C	M-66-1A	E-2	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name EXCESS LETDOWN HEAT EXCHANGER CC SUPPLY ISOL VALVE															

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Component Cooling Water (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CC9437B	2	B	3	GL	AO	A	SYS	C	M-66-1A	C-4	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name EXCESS LETDOWN HEAT EXCHANGER CC RETURN ISOL VALVE															
1CC9438	2	A	4	GA	MO	A	O	C	M-66-1A	B-6	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name RC PUMPS THERMAL BARRIER CC RETURN ISOLATION VALVE															
1CC9458	3	B	16	GA	M	A	O	O/C	M-66-3B	C-6	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9459A	3	B	16	GA	M	A	O	O/C	M-66-3A	D-6	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9459B	3	B	16	GA	M	A	O	O/C	M-66-3A	D-5	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9463A	3	C	12	CK	SA	A	SYS	O/C	M-66-3B	B-5	CC CO	M3 M3			
Valve Name CC PUMP DISCHARGE CHECK VALVE															
1CC9463B	3	C	12	CK	SA	A	SYS	O/C	M-66-3B	B-6	CC CO	M3 M3			
Valve Name CC PUMP DISCHARGE CHECK VALVE															
1CC9467A	3	B	16	GA	M	A	O	O/C	M-66-4D	C-6	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9467B	3	B	16	GA	M	A	O	O/C	M-66-4D	C-5	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9467C	3	B	16	GA	M	A	O	O/C	M-66-3B	D-6	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
1CC9473A	3	B	16	GA	MO	A	C	O/C	M-66-3B	D-4	PI SC SO	Y2 M3 M3			VA-4 VA-1 VA-1
Valve Name CC PUMP DISCHARGE CROSSTIE ISOL VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CC9473B	3	B	16	GA	MO	A	C	O/C	M-66-3B	C-5	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CC PUMP DISCHARGE CROSSTIE ISOL VLV															
1CC9486	2	AC	6	CK	SA	A	SYS	C	M-66-1A	E-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC SUPPLY TO RC PUMPS INLET CHECK VALVE															
1CC9495A	3	C	2	CK	SA	A	SYS	C	M-66-1B	E-2	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name A RCP COOLING WATER SUPPLY INLET CK VLV															
1CC9495B	3	C	2	CK	SA	A	SYS	C	M-66-1B	D-2	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name B RCP COOLING WATER SUPPLY INLET CK VLV															
1CC9495C	3	C	2	CK	SA	A	SYS	C	M-66-1B	C-2	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name C RCP COOLING WATER SUPPLY INLET CK VLV															
1CC9495D	3	C	2	CK	SA	A	SYS	C	M-66-1B	B-2	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name D RCP COOLING WATER SUPPLY INLET CK VLV															
1CC9518	2	AC	0.75	CK	SA	A	SYS	O/C	M-66-1A	B-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE CHK VLV															
1CC9534	2	AC	0.75	CK	SA	A	SYS	O/C	M-66-1A	B-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE CHK VLV															
2CC070A	3	C	3	CK	SA	A	SYS	C	M-66-4B	B-6	CCD	CM			VA-9, 02
											COD	CM			VA-9, 02
Valve Name CC SURGE TANK DEMIN MAKE UP CHECK VALVE															
2CC070B	3	C	3	CK	SA	A	SYS	C	M-66-4B	C-4	CCD	CM			VA-9, 02
											COD	CM			VA-9, 02
Valve Name CC SURGE TANK PW MAKE UP CHECK VALVE															
2CC685	2	A	3	GA	MO	A	O	C	M-139-1	B-6	Lt	AJ			VA-4
											PI	Y2			VA-1
											SC	CS		CS-19	VA-1
Valve Name RC PUMPS THERMAL BARRIER CC RETURN ISOLATION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CC9412A	3	B	12	GA	MO	A	C	O	M-139-2	D-6	PI SO	Y2 M3			VA-4 VA-1
Valve Name RH HEAT EXCHANGER CC OUTLET ISOLATION VALVE															
2CC9412B	3	B	12	GA	MO	A	C	O	M-139-2	F-6	PI SO	Y2 M3			VA-4 VA-1
Valve Name RH HEAT EXCHANGER CC OUTLET ISOLATION VALVE															
2CC9413A	2	A	6	GA	MO	A	O	C	M-139-1	E-7	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC SUPPLY TO RC PUMPS ISOLATION VALVE															
2CC9414	2	A	6	GA	MO	A	O	C	M-139-1	B-7	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE															
2CC9415	3	B	16	GA	MO	A	O	C	M-66-4D	C-3	PI SC	Y2 CS		CS-19	VA-4 VA-1
Valve Name NON-ESSENTIAL CC LOAD ISOLATION VALVE															
2CC9416	2	A	6	GA	MO	A	O	C	M-139-1	B-6	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE															
2CC9437A	2	B	3	GL	AO	A	SYS	C	M-139-1	E-8	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name EXCESS LETDOWN HEAT EXCHANGER CC SUPPLY ISOL VALVE															
2CC9437B	2	B	3	GL	AO	A	SYS	C	M-139-1	C-6	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name EXCESS LETDOWN HEAT EXCHANGER CC RETURN ISOL VALVE															
2CC9438	2	A	4	GA	MO	A	O	C	M-139-1	B-6	Lt PI SC	AJ Y2 CS		CS-19	VA-4 VA-1
Valve Name RC PUMPS THERMAL BARRIER CC RETURN ISOLATION VALVE															
2CC9458	3	B	16	GA	M	A	O	O/C	M-66-3B	C-3	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
2CC9459A	3	B	16	GA	M	A	O	O/C	M-66-3A	D-3	SC SO	RR RR		RJ-3 RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CC9459B	3	B	16	GA	M	A	C	O/C	M-66-3A	D-4	SC	RR		RJ-3	
											SO	RR		RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
2CC9463A	3	C	12	CK	SA	A	SYS	O/C	M-66-3B	B-3	CC	M3			
											CO	M3			
Valve Name CC PUMP DISCHARGE CHECK VALVE															
2CC9463B	3	C	12	CK	SA	A	SYS	O/C	M-66-3B	B-2	CC	M3			
											CO	M3			
Valve Name CC PUMP DISCHARGE CHECK VALVE															
2CC9467A	3	B	16	GA	M	A	O	O/C	M-66-4D	C-3	SC	RR		RJ-3	
											SO	RR		RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
2CC9467B	3	B	16	GA	M	A	C	O/C	M-66-4D	C-3	SC	RR		RJ-3	
											SO	RR		RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
2CC9467C	3	B	16	GA	M	A	O	O/C	M-66-3B	D-2	SC	RR		RJ-3	
											SO	RR		RJ-3	
Valve Name CC TRAIN MANUAL CROSS CONNECT VALVE															
2CC9473A	3	B	16	GA	MO	A	O	O/C	M-66-3B	D-4	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CC PUMP DISCHARGE CROSSTIE ISOL VLV															
2CC9473B	3	B	16	GA	MO	A	O	O/C	M-66-3B	C-3	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CC PUMP DISCHARGE CROSSTIE ISOL VLV															
2CC9486	2	AC	6	CK	SA	A	SYS	C	M-139-1	E-6	CC	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC SUPPLY TO RC PUMPS INLET CHECK VALVE															
2CC9495A	3	C	2	CK	SA	A	SYS	C	M-139-1	E-5	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name A RCP COOLING WATER SUPPLY INLET CK VLV															
2CC9495B	3	C	2	CK	SA	A	SYS	C	M-139-1	D-5	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name B RCP COOLING WATER SUPPLY INLET CK VLV															
2CC9495C	3	C	2	CK	SA	A	SYS	C	M-139-1	D-5	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name C RCP COOLING WATER SUPPLY INLET CK VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CC9495D	3	C	2	CK	SA	A	SYS	C	M-139-1	C-5	CCD	CM	VR-3		CW00-02
											COD	CM	VR-3		CW00-02
Valve Name D RCP COOLING WATER SUPPLY INLET CK VLV															
2CC9518	2	AC	0.75	CK	SA	A	SYS	O/C	M-139-1	B-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE CHK VLV															
2CC9534	2	AC	0.75	CK	SA	A	SYS	O/C	M-139-1	A-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name CC RETURN FROM RC PUMPS ISOLATION VALVE CHK VLV															

Containment Spray (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CS001A	2	B	14	GA	MO	A	O	O/C	M-61-4	C3	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name CS PUMP 1A RWST SUCTION VALVE															
1CS001B	2	B	14	GA	MO	A	O	O/C	M-61-4	A3	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name CS PUMP 1B RWST SUCTION VALVE															
1CS003A	2	C	10	CK	SA	A	SYS	O	M-46-1A	E6	CCD COD CP	CM CM M3	VR-2		CW00-02 CW00-02 CW00-02
Valve Name CONTAINMENT SPRAY PUMP 1A DISCHARGE CHECK VALVE															
1CS003B	2	C	10	CK	SA	A	SYS	O	M-46-1A	C6	CCD COD CP	CM CM M3	VR-2		CW00-02 CW00-02 CW00-02
Valve Name CONTAINMENT SPRAY PUMP 1B DISCHARGE CHECK VALVE															
1CS007A	2	A	10	GA	MO	A	C	O/C	M-46-1C	D4	Lt PI SC SO	AJ Y2 M3 M3			VA-4 VA-1 VA-1
Valve Name CS PUMP 1A DISCHARGE HEADER ISOLATION VALVE															
1CS007B	2	A	10	GA	MO	A	C	O/C	M-46-1C	B4	Lt PI SC SO	AJ Y2 M3 M3			VA-4 VA-1 VA-1
Valve Name CS PUMP 1B DISCHARGE HEADER ISOLATION VALVE															
1CS008A	2	AC	10	CK	SA	A	SYS	O/C	M-46-1C	D6	CC COD Lt	CM CM AJ	VR-2		CW00-02 CW00-02 CW00-02
Valve Name CS PUMP 1A DISCHARGE NOZZLE HEADER CHECK VALVE															
1CS008B	2	AC	10	CK	SA	A	SYS	O/C	M-46-1C	B6	CC COD Lt	CM CM AJ	VR-2		CW00-02 CW00-02 CW00-02
Valve Name CS PUMP 1B DISCHARGE NOZZLE HEADER CHECK VALVE															
1CS009A	2	B	16	GA	MO	A	C	O/C	M-61-4	C4	PI SO	Y2 M3			VA-4 VA-1,VA-6
Valve Name CS PUMP 1A CONTAINMENT RECIRC SUMP SUCTION VALVE															
1CS009B	2	B	16	GA	MO	A	C	O/C	M-61-4	A4	PI SO	Y2 M3			VA-4 VA-1,VA-6
Valve Name CS PUMP 1B CONTAINMENT RECIRC SUMP SUCTION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CS010A	2	B	3	GL	AO	P	O	O	M-46-1A	D7	PI	Y2			VA-4
Valve Name CS EDUCTOR 1A INLET ISOLATION VALVE															
1CS010B	2	B	3	GL	AO	P	O	O	M-46-1A	A7	PI	Y2			VA-4
Valve Name CS EDUCTOR 1B INLET ISOLATION VALVE															
1CS011A	2	C	6	CK	SA	A	SYS	O	M-46-1A	D2	CCD	CM			CW00-02
COD CM VR-2 CW00-02															
CP M3 CW00-02															
Valve Name CS EDUCTOR 1A OUTLET CHECK VALVE															
1CS011B	2	C	6	CK	SA	A	SYS	O	M-46-1A	B2	CCD	CM			CW00-02
COD CM VR-2 CW00-02															
CP M3 CW00-02															
Valve Name CS EDUCTOR 1B OUTLET CHECK VALVE															
1CS019A	2	B	3	GA	MO	A	C	O/C	M-46-1B	B2	PI	Y2			VA-4
SC M3 VA-1															
SO M3 VA-1															
Valve Name CS EDUCTOR 1A SPRAY ADDITIVE TANK ISOLATION VALVE															
1CS019B	2	B	3	GA	MO	A	C	O/C	M-46-1B	B5	PI	Y2			VA-4
SC M3 VA-1															
SO M3 VA-1															
Valve Name CS EDUCTOR 1B SPRAY ADDITIVE TANK ISOLATION VALVE															
1CS020A	2	C	3	CK	SA	A	C	O/C	M-46-1B	B2	CCD	CM			CW00-02
COD CM VR-2 CW00-02															
Valve Name CS EDUCUCTOR 1A INLET CHECK VALVE															
1CS020B	2	C	3	CK	SA	A	C	O/C	M-46-1B	B4	CCD	CM			CW00-02
COD CM VR-2 CW00-02															
Valve Name CS EDUCUCTOR 1B INLET CHECK VALVE															
1CS08MA	2	C	1	RV	SA	A	C	O	M-46-1B	F4	Rt	Y10			
Valve Name SPRAY ADDITIVE TANK VACUUM RELIEF VALVE															
1CS08MB	2	C	1	RV	SA	A	C	O	M-46-1B	F4	Rt	Y10			
Valve Name SPRAY ADDITIVE TANK VACUUM RELIEF VALVE															
2CS001A	2	B	14	GA	MO	A	O	O/C	M-136-4	B7	PI	Y2			VA-4
SC M3 VA-1,VA-6															
Valve Name CS PUMP 2A RWST SUCTION VALVE															
2CS001B	2	B	14	GA	MO	A	O	O/C	M-136-4	A7	PI	Y2			VA-4
SC M3 VA-1,VA-6															
Valve Name CS PUMP 2B RWST SUCTION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CS003A	2	C	10	CK	SA	A	SYS	O	M-129-1A	E3	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
											CP	M3			CW00-02
Valve Name CONTAINMENT SPRAY PUMP 2A DISCHARGE CHECK VALVE															
2CS003B	2	C	10	CK	SA	A	SYS	O	M-129-1A	C3	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
											CP	M3			CW00-02
Valve Name CONTAINMENT SPRAY PUMP 2B DISCHARGE CHECK VALVE															
2CS007A	2	A	10	GA	MO	A	C	O/C	M-129-1C	D5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CS PUMP 2A DISCHARGE HEADER ISOLATION VALVE															
2CS007B	2	A	10	GA	MO	A	C	O/C	M-129-1C	B5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CS PUMP 2B DISCHARGE HEADER ISOLATION VALVE															
2CS008A	2	AC	10	CK	SA	A	SYS	O/C	M-129-1C	D3	CC	CM			CW00-02
											COD	CM	VR-2		CW00-02
											Lt	AJ			CW00-02
Valve Name CS PUMP 2A DISCHARGE NOZZLE HEADER CHECK VALVE															
2CS008B	2	AC	10	CK	SA	A	SYS	O/C	M-129-1C	B3	CC	CM			CW00-02
											COD	CM	VR-2		CW00-02
											Lt	AJ			CW00-02
Valve Name CS PUMP 2B DISCHARGE NOZZLE HEADER CHECK VALVE															
2CS009A	2	B	16	GA	MO	A	C	O/C	M-136-4	C7	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name CS PUMP 2A CONTAINMENT RECIRC SUMP SUCTION VALVE															
2CS009B	2	B	16	GA	MO	A	C	O/C	M-136-4	A7	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name CS PUMP 2B CONTAINMENT RECIRC SUMP SUCTION VALVE															
2CS010A	2	B	3	GL	AO	P	O	O	M-129-1A	D3	PI	Y2			VA-4
Valve Name CS EDUCTOR 2A INLET ISOLATION VALVE															
2CS010B	2	B	3	GL	AO	P	O	O	M-129-1A	A3	PI	Y2			VA-4
Valve Name CS EDUCTOR 2B INLET ISOLATION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CS011A	2	C	6	CK	SA	A	SYS	O	M-129-1A	D8	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
											CP	M3			CW00-02
Valve Name CS EDUCTOR 2A OUTLET CHECK VALVE															
2CS011B	2	C	6	CK	SA	A	SYS	O	M-129-1A	B8	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
											CP	M3			CW00-02
Valve Name CS EDUCTOR 2B OUTLET CHECK VALVE															
2CS019A	2	B	3	GA	MO	A	C	O/C	M-129-1B	B6	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CS EDUCTOR 2A SPRAY ADDITIVE TANK ISOLATION VALVE															
2CS019B	2	B	3	GA	MO	A	C	O/C	M-129-1B	B3	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CS EDUCTOR 2B SPRAY ADDITIVE TANK ISOLATION VALVE															
2CS020A	2	C	3	CK	SA	A	C	O/C	M-129-1A	D5	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
Valve Name CS EDUCTOR 2A INLET CHECK VALVE															
2CS020B	2	C	3	CK	SA	A	C	O/C	M-129-1A	A5	CCD	CM			CW00-02
											COD	CM	VR-2		CW00-02
Valve Name CS EDUCTOR 2B INLET CHECK VALVE															
2CS08MA	2	C	1	RV	SA	A	C	O	M-129-1B	F6	Rt	Y10			
Valve Name SPRAY ADDITIVE TANK VACUUM RELIEF VALVE															
2CS08MB	2	C	1	RV	SA	A	C	O	M-129-1B	F5	Rt	Y10			
Valve Name SPRAY ADDITIVE TANK VACUUM RELIEF VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CV112B	2	B	4.000	GA	MO	A	O	C	M-64-4A	B-4	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV VCT OUTLET UPST ISOL VLV															
1CV112C	2	B	4.000	GA	MO	A	O	C	M-64-4A	B-3	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV VCT OUTLET DWST ISOL VLV															
1CV112D	2	B	8.000	GA	MO	A	C	O/C	M-64-4B	B-5	PI	Y2			VA-4
											SC	CS		CS-2	VA-1
											SO	CS		CS-2	VA-1
Valve Name MOV RWST TO CHG PPS SUCT ISOL VLV															
1CV112E	2	B	8.000	GA	MO	A	C	O/C	M-64-4B	A-5	PI	Y2			VA-4
											SC	CS		CS-2	VA-1
											SO	CS		CS-2	VA-1
Valve Name MOV RWST TO CHG PPS SUCT ISOL VLV															
1CV459	1	B	3.000	GL	AO	A	O	C	M-64-5	E-7	Fc	CS		CS-10	VA-2
											PI	Y2			VA-4
											SC	CS		CS-10	VA-1
Valve Name LETDOWN LINE ISOLATION VALVE - AOV															
1CV460	1	B	3.000	GL	AO	A	O	C	M-64-5	F-8	Fc	CS		CS-10	VA-2
											PI	Y2			VA-4
											SC	CS		CS-10	VA-1
Valve Name LETDOWN LINE ISOLATION VALVE - AOV															
1CV8100	2	A	2.000	GL	MO	A	O	C	M-64-2	F-1	Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-19	VA-1
Valve Name MOV RC PPS SEAL L/O HDR OUTSIDE CNMT ISOL															
1CV8104	2	B	2.000	GL	MO	P	C	C	M-64-4B	C-2	PI	Y2			VA-4
Valve Name EMERGENCY BORATION ISOLATION VALVE															
1CV8105	2	B	3.000	GA	MO	A	O	C	M-64-3B	E-6	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV CV CHG PPS DSCH HDR DWST ISOL VLV															
1CV8106	2	B	3.000	GA	MO	A	O	C	M-64-3B	E-5	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV CV CHG PPS DSCH HDR UPST ISOL VLV															
1CV8110	2	B	2.000	GL	MO	A	O	O/C	M-64-3A	B-5	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION MOV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CV8111	2	B	2.000	GL	MO	A	O	O/C	M-64-3A	A-3	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION MOV															
1CV8112	2	A	2.000	GL	MO	A	O	C	M-64-2	F-2	Lt	AJ			VA-4
											PI	Y2			VA-4
											SC	CS		CS-19	VA-1
Valve Name MOV RC PPS SEAL L/O HDR INSIDE CNMT ISOL															
1CV8113	2	AC	0.75	CK	SA	A	SYS	O/C	M-64-2	F-2	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name RCP SEAL RETURN HEADER CHECK VALVE															
1CV8114	2	B	2	GL	SO	A	O	O/C	M-64-3A	A-3	Fo	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION SOV															
1CV8116	2	B	2	GL	SO	A	O	O/C	M-64-3A	B-5	Fo	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION SOV															
1CV8117	2	C	2.0x3.0	RV	SA	A	C	O	M-64-5	F-6	Rt	Y10			
Valve Name LETDOWN RELIEF VALVE															
1CV8121	2	C	2.0x3.0	RV	SA	N/A	C	O	M-64-2	E-3	Rt	Y10			
Valve Name SEAL WATER RETURN RELIEF VALVE															
1CV8124	2	C	0.75x1.0	RV	SA	A	C	O	M-64-4B	C-5	Rt	Y10			
Valve Name CHARGING PUMP SUCTION HEADER RELIEF VALVE															
1CV8152	2	A	3.000	GL	AO	A	O	C	M-64-5	E-4	Fc	CS		CS-4	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name LETDOWN HEADER CONTAINMENT ISOLATION VALVE															
1CV8153A	1	B	1.000	GL	AO	A	C	C	M-64-2	D-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV - EXCESS LETDOWN HEAT EXCHANGER INLET															

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Braidwood Station
IST PROGRAM PLAN

Chemical and Volume Control (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CV8153B	1	B	1.000	GL	AO	A	C	C	M-64-2	C-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV - EXCESS LETDOWN HEAT EXCHANGER INLET															
1CV8160	2	A	3.000	GL	AO	A	O	C	M-64-5	F-5	Fc	CS		CS-4	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name LETDOWN HEADER CONTAINMENT ISOLATION VALVE															
1CV8348	2	C	2.000	CK	SA	A	SYS	C	M-64-3B	F-2	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK - RCS LOOP FILL															
1CV8355A	2	B	2.000	GL	MO	A	O	O/C	M-64-1	C-8	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
1CV8355B	2	B	2.000	GL	MO	A	O	O/C	M-64-1	C-4	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
1CV8355C	2	B	2.000	GL	MO	A	O	O/C	M-64-2	B-8	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
1CV8355D	2	B	2.000	GL	MO	A	O	O/C	M-64-2	B-5	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
1CV8368A	2	C	2.000	CK	SA	A	SYS	O/C	M-64-1	C-5	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
1CV8368B	2	C	2.000	CK	SA	A	SYS	O/C	M-64-1	B-8	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
1CV8368C	2	C	2.000	CK	SA	A	SYS	O/C	M-64-2	C-4	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
1CV8368D	2	C	2.000	CK	SA	A	SYS	O/C	M-64-2	B-8	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
1CV8440	2	C	4.000	CK	SA	A	SYS	O/C	M-64-4B	F-6	CCU	CM			CW00-02
											CO	CM			CW00-02
Valve Name VOLUME CONTROL TANK OUTLET CHECK VALVE															

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Chemical and Volume Control (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CV8442	2	C	2.00	CK	SA	A	SYS	O	M-64-4B	B-3	CC	CS		CS-2	
											CO	CS		CS-2	
Valve Name CV EMER BORATION INLET CHK VLV															
1CV8480A	2	C	2.000	CK	SA	A	SYS	O/C	M-64-3A	D-6	CC	M3			
											CO	M3			
Valve Name CV PP MINIFLOW CHK VLV															
1CV8480B	2	C	2.000	CK	SA	A	SYS	O/C	M-64-3A	B-6	CC	M3			
											CO	M3			
Valve Name CV PP MINIFLOW CHK VLV															
1CV8481A	2	C	4.000	CK	SA	A	SYS	O/C	M-64-3A	D-6	CC	M3			
											CO	RR		RJ-7	
											CP	M3			
Valve Name CV PP DSCH CHK VLV															
1CV8481B	2	C	4.000	CK	SA	A	SYS	O/C	M-64-3A	C-7	CC	M3			
											CO	RR		RJ-7	
											CP	M3			
Valve Name CV PP DSCH CHK VLV															
1CV8546	2	C	8.000	CK	SA	A	SYS	O/C	M-64-4B	B-5	CCA	CM			CW00-02
											CO	RR		RJ-7	CW00-02
Valve Name RWST TO CHARGING PUMP SUCTION CHECK VALVE															
1CV8804A	2	B	8.000	GA	MO	A	C	O/C	M-64-4B	C-7	PI	Y2			VA-4
											SO	CS		CS-2	VA-1,VA-6
Valve Name RHR TO CHARGING PUMP SUCTION ISOLATION VALVE															
2CV112B	2	B	4.000	GA	MO	A	O	C	M-138-4	D-5	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV VCT OUTLET UPST ISOL VLV															
2CV112C	2	B	4.000	GA	MO	A	O	C	M-138-4	D-5	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV VCT OUTLET DWST ISOL VLV															
2CV112D	2	B	8.000	GA	MO	A	C	O/C	M-138-4	B-4	PI	Y2			VA-4
											SC	CS		CS-2	VA-1
											SO	CS		CS-2	VA-1
Valve Name MOV RWST TO CHG PPS SUCT ISOL VLV															
2CV112E	2	B	8.000	GA	MO	A	C	O/C	M-138-4	A-4	PI	Y2			VA-4
											SC	CS		CS-2	VA-1
											SO	CS		CS-2	VA-1
Valve Name MOV RWST TO CHG PPS SUCT ISOL VLV															

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Chemical and Volume Control (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CV459	1	B	3.000	GL	AO	A	O	C	M-138-5B	F-5	Fc	CS		CS-10	VA-2
											PI	Y2			VA-4
											SC	CS		CS-10	VA-1
Valve Name LETDOWN LINE ISOLATION VALVE - AOV															
2CV460	1	B	3.000	GL	AO	A	O	C	M-138-5B	F-7	Fc	CS		CS-10	VA-2
											PI	Y2			VA-4
											SC	CS		CS-10	VA-1
Valve Name LETDOWN LINE ISOLATION VALVE - AOV															
2CV8100	2	A	2.000	GL	MO	A	O	C	M-138-2	F-1	Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-19	VA-1
Valve Name MOV RC PPS SEAL L/O HDR OUTSIDE CNMT ISOL															
2CV8104	2	B	2.000	GL	MO	P	C	C	M-138-4	B-2	PI	Y2			VA-4
Valve Name EMERGENCY BORATION ISOLATION VALVE															
2CV8105	2	B	3.000	GA	MO	A	O	C	M-138-3B	E-6	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV CV CHG PPS DSCH HDR DWST ISOL VLV															
2CV8106	2	B	3.000	GA	MO	A	O	C	M-138-3B	E-5	PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name MOV CV CHG PPS DSCH HDR UPST ISOL VLV															
2CV8110	2	B	2.000	GL	MO	A	O	O/C	M-138-3A	B-5	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION MOV															
2CV8111	2	B	2.000	GL	MO	A	O	O/C	M-138-3A	B-3	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION MOV															
2CV8112	2	A	2.000	GL	MO	A	O	C	M-138-2	F-2	Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-19	VA-1
Valve Name MOV RC PPS SEAL L/O HDR INSIDE CNMT ISOL															
2CV8113	2	AC	0.75	CK	SA	A	SYS	O/C	M-138-2	F-2	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name RCP SEAL WATER RETURN HEADER CHECK VALVE															

Chemical and Volume Control (Page 6)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CV8114	2	B	2	GL	SO	A	O	O/C	M-138-3A	A-3	Fo	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name SOV A CV PP ESF MINIFLOW ISOL VLV															
2CV8116	2	B	2	GL	SO	A	O	O/C	M-138-3A	B-5	Fo	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name CHARGING PUMP MIN FLOW RECIRCULATION SOV															
2CV8117	2	C	2.0x3.0	RV	SA	A	C	O	M-138-5B	D-1	Rt	Y10			
Valve Name LETDOWN RELIEF VALVE															
2CV8121	2	C	2.0x3.0	RV	SA	N/A	C	O	M-138-2	E-3	Rt	Y10			
Valve Name SEAL WATER RETURN RELIEF VALVE															
2CV8124	2	C	0.75x1.0	RV	SA	A	C	O	M-138-4	C-5	Rt	Y10			
Valve Name CHARGING PUMP SUCTION HEADER RELIEF VALVE															
2CV8152	2	A	3.000	GL	AO	A	O	C	M-138-5A	C-7	Fc	CS		CS-4	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name LETDOWN HEADER CONTAINMENT ISOLATION VALVE															
2CV8153A	1	B	1.000	GL	AO	A	C	C	M-138-2	D-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV - EXCESS LETDOWN HEAT EXCHANGER INLET															
2CV8153B	1	B	1.000	GL	AO	A	C	C	M-138-2	C-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV - EXCESS LETDOWN HEAT EXCHANGER INLET															
2CV8160	2	A	3.000	GL	AO	A	O	C	M-138-5A	B-8	Fc	CS		CS-4	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-4	VA-1
Valve Name LETDOWN HEADER CONTAINMENT ISOLATION VALVE															
2CV8348	2	C	2.000	CK	SA	A	SYS	C	M-138-3B	E-2	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK - RCS LOOP FILL															

Chemical and Volume Control (Page 7)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CV8355A	2	B	2.000	GL	MO	A	O	O/C	M-138-1	B-8	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
2CV8355B	2	B	2.000	GL	MO	A	O	O/C	M-138-1	C-4	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
2CV8355C	2	B	2.000	GL	MO	A	O	O/C	M-138-2	B-8	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
2CV8355D	2	B	2.000	GL	MO	A	O	O/C	M-138-2	B-5	PI	Y2			VA-4
											SC	CS		CS-22	VA-1,VA-6
Valve Name RCP SEAL INJECTION ISOLATION VALVE															
2CV8368A	2	C	2.000	CK	SA	A	SYS	O/C	M-138-1	C-7	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
2CV8368B	2	C	2.000	CK	SA	A	SYS	O/C	M-138-1	C-4	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
2CV8368C	2	C	2.000	CK	SA	A	SYS	O/C	M-138-2	C-8	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
2CV8368D	2	C	2.000	CK	SA	A	SYS	O/C	M-138-2	C-5	CCR	CM			CW00-02
											CO	CM			CW00-02
Valve Name CHECK VALVE - SEAL INJECTION INLET															
2CV8440	2	C	4.000	CK	SA	A	SYS	O/C	M-138-4	D-5	CCU	CM			CW00-02
											CO	CM			CW00-02
Valve Name CV VCT CV01T OUTLET CHK VLV															
2CV8442	2	C	2.00	CK	SA	A	SYS	O	M-138-4	B-1	CC	CS		CS-2	
											CO	CS		CS-2	
Valve Name CV EMER BORTATION INLET CHK VLV															
2CV8480A	2	C	2.000	CK	SA	A	SYS	O/C	M-138-3A	D-6	CC	M3			
											CO	M3			
Valve Name CV PP MINIFLOW CHK VLV															
2CV8480B	2	C	2.000	CK	SA	A	SYS	O/C	M-138-3A	B-6	CC	M3			
											CO	M3			
Valve Name CV PP MINIFLOW CHK VLV															

Chemical and Volume Control (Page 8)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CV8481A	2	C	4.000	CK	SA	A	SYS	O/C	M-138-3A	D-6	CC	M3			
											CO	RR		RJ-7	
											CP	M3			
Valve Name CV PP DSCH CHK VLV															
2CV8481B	2	C	4.000	CK	SA	A	SYS	O/C	M-138-3A	C-7	CC	M3			
											CO	RR		RJ-7	
											CP	M3			
Valve Name CV PP DSCH CHK VLV															
2CV8546	2	C	8.000	CK	SA	A	SYS	O/C	M-138-4	A-5	CCA	CM			CW00-02
											CO	RR		RJ-7	CW00-02
Valve Name RWST TO CHARGING PUMP SUCTION CHECK VALVE															
2CV8804A	2	B	8.000	GA	MO	A	C	O/C	M-138-4	B-6	PI	Y2			VA-4
											SO	CS		CS-2	VA-1,VA-6
Valve Name RHR TO CHARGING PUMP SUCTION ISOLATION VALVE															

Diesel Generator Starting Air (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1DG5182A	NC	B	3.00	GA	SO	A	C	O	M-152-20	B-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
1DG5182B	NC	B	3.00	GA	SO	A	C	O	M-152-20	B-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
1DG5183A	NC	B	3.00	GA	SO	A	C	O	M-152-20	E-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
1DG5183B	NC	B	3.00	GA	SO	A	C	O	M-152-20	E-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
1DG5184A	NC	C	3.00	CK	SA	A	C	O	M-152-20	B-6	CC	NA			EX00-04
												CO	M3	VR-4	
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
1DG5184B	NC	C	3.00	CK	SA	A	C	O	M-152-20	B-6	CC	NA			EX00-04
												CO	M3	VR-4	
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
1DG5185A	NC	C	3.00	CK	SA	A	C	O	M-152-20	E-6	CC	NA			EX00-04
												CO	M3	VR-4	
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
1DG5185B	NC	C	3.00	CK	SA	A	C	O	M-152-20	E-6	CC	NA			EX00-04
												CO	M3	VR-4	
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
1DG5205A	NC	C		CK	SA	A	C	O/C	M-152-20	C-5	CC	M3			EX00-04
												CO	M3		EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
1DG5205B	NC	C		CK	SA	A	C	O/C	M-152-20	C-5	CC	M3			EX00-04
												CO	M3		EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
1DG5206A	NC	C		CK	SA	A	C	O/C	M-152-20	D-6	CC	M3			EX00-04
												CO	M3		EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
1DG5206B	NC	C		CK	SA	A	C	O/C	M-152-20	D-6	CC	M3			EX00-04
												CO	M3		EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
1DG5207A	NC	B		GA	SO	A	C	O	M-152-20	C-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5207B	NC	B		GA	SO	A	C	O	M-152-20	C-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5208A	NC	B		GA	SO	A	C	O	M-152-20	D-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1DG5208B	NC	B		GA	SO	A	C	O	M-152-20	D-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5209A	NC	B		GA	SO	A	C	O	M-152-20	C-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5209B	NC	B		GA	SO	A	C	O	M-152-20	C-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5210A	NC	B		GA	SO	A	C	O	M-152-20	D-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1DG5210B	NC	B		GA	SO	A	C	O	M-152-20	D-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
1SA148A	NC	C	0.75	RV	SA	A	C	O/C	M-54-4A	F-6	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
1SA148B	NC	C	0.75	RV	SA	A	C	O/C	M-54-4A	D-6	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
1SA148C	NC	C	0.75	RV	SA	A	C	O/C	M-54-4A	F-3	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
1SA148D	NC	C	0.75	RV	SA	A	C	O/C	M-54-4A	D-3	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
1SA181A	NC	C	1.000	CK	SA	A	SYS	C	M-54-4A	E-7	CCD	CM			02, 04
COD CM 02, 04															
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
1SA181B	NC	C	1.000	CK	SA	A	SYS	C	M-54-4A	B-7	CCD	CM			02, 04
COD CM 02, 04															
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
1SA181C	NC	C	1.000	CK	SA	A	SYS	C	M-54-4A	E-2	CCD	CM			02, 04
COD CM 02, 04															
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
1SA181D	NC	C	1.000	CK	SA	A	SYS	C	M-54-4A	B-2	CCD	CM			02, 04
COD CM 02, 04															
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
2DG5182A	NC	B	3.00	GA	SO	A	C	O	M-152-20	B-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
2DG5182B	NC	B	3.00	GA	SO	A	C	O	M-152-20	B-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
2DG5183A	NC	B	3.00	GA	SO	A	C	O	M-152-20	E-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															

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Diesel Generator Starting Air (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DG5183B	NC	B	3.00	GA	SO	A	C	O	M-152-20	E-5	SO	M3	VR-4		
Valve Name DIESEL GENERATOR STARTING AIR CONTROL VALVE															
2DG5184A	NC	C	3.00	CK	SA	A	C	O	M-152-20	B-6	CC CO	NA M3	VR-4		EX00-04
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
2DG5184B	NC	C	3.00	CK	SA	A	C	O	M-152-20	B-6	CC CO	NA M3	VR-4		EX00-04
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
2DG5185A	NC	C	3.00	CK	SA	A	C	O	M-152-20	E-6	CC CO	NA M3	VR-4		EX00-04
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
2DG5185B	NC	C	3.00	CK	SA	A	C	O	M-152-20	E-6	CC CO	NA M3	VR-4		EX00-04
Valve Name DIESEL GENERATOR STARTING AIR CHECK VALVE															
2DG5205A	NC	C		CK	SA	A	C	O/C	M-152-20	C-5	CC CO	M3 M3			EX00-04 EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
2DG5205B	NC	C		CK	SA	A	C	O/C	M-152-20	C-5	CC CO	M3 M3			EX00-04 EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
2DG5206A	NC	C		CK	SA	A	C	O/C	M-152-20	D-6	CC CO	M3 M3			EX00-04 EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
2DG5206B	NC	C		CK	SA	A	C	O/C	M-152-20	D-6	CC CO	M3 M3			EX00-04 EX00-04
Valve Name DG AIR START CNTRL VLV SHUTTLE VALVE															
2DG5207A	NC	B		GA	SO	A	C	O	M-152-20	C-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5207B	NC	B		GA	SO	A	C	O	M-152-20	C-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5208A	NC	B		GA	SO	A	C	O	M-152-20	D-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5208B	NC	B		GA	SO	A	C	O	M-152-20	D-6	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5209A	NC	B		GA	SO	A	C	O	M-152-20	C-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5209B	NC	B		GA	SO	A	C	O	M-152-20	C-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															

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Diesel Generator Starting Air (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DG5210A	NC	B		GA	SO	A	C	O	M-152-20	D-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2DG5210B	NC	B		GA	SO	A	C	O	M-152-20	D-5	SO	M3			EX00-04
Valve Name DIESEL GENERATOR AIR START SOLENOID VALVE															
2SA148A	NC	C	0.75	RV	SA	A	C	O/C	M-54-4B	F-6	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
2SA148B	NC	C	0.75	RV	SA	A	C	O/C	M-54-4B	D-6	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
2SA148C	NC	C	0.75	RV	SA	A	C	O/C	M-54-4B	F-3	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
2SA148D	NC	C	0.75	RV	SA	A	C	O/C	M-54-4B	D-3	Rt	Y10			
Valve Name DG STARTING AIR RECEIVER RELIEF VALVE															
2SA181A	NC	C	1.000	CK	SA	A	SYS	C	M-54-4B	E-7	CCD	CM			02, 04
												COD	CM		02, 04
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
2SA181B	NC	C	1.000	CK	SA	A	SYS	C	M-54-4B	B-7	CCD	CM			02, 04
												COD	CM		02, 04
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
2SA181C	NC	C	1.000	CK	SA	A	SYS	C	M-54-4B	E-2	CCD	CM			02, 04
												COD	CM		02, 04
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															
2SA181D	NC	C	1.000	CK	SA	A	SYS	C	M-54-4B	B-2	CCD	CM			02, 04
												COD	CM		02, 04
Valve Name DG AIR RECEIVER TANK INLET CHECK VALVE															

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Diesel Fuel Oil (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1DO003A	3	C	1.5	CK	SA	A	SYS	O/C	M-50-1B	F-2	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
1DO003B	3	C	1.5	CK	SA	A	SYS	O/C	M-50-1A	E-2	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
1DO003C	3	C	1.5	CK	SA	A	SYS	O/C	M-50-1B	E-2	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
1DO003D	3	C	1.5	CK	SA	A	SYS	O/C	M-50-1A	E-2	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
1DO020A	3	C	1.5x2.5	RV	SA	A	C	O/C	M-50-1B	E-2	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
1DO020B	3	C	1.5x2.5	RV	SA	A	C	O/C	M-50-1A	E-3	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
1DO020C	3	C	1.5x2.5	RV	SA	A	C	O/C	M-50-1A	E-2	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
1DO020D	3	C	1.5x2.5	RV	SA	A	C	O/C	M-50-1A	D-3	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
2DO003A	3	C	1.5	CK	SA	A	SYS	O/C	M-130-1A	C-3	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
2DO003B	3	C	1.5	CK	SA	A	SYS	O/C	M-130-1B	C-3	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
2DO003C	3	C	1.5	CK	SA	A	SYS	O/C	M-130-1A	C-2	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
2DO003D	3	C	1.5	CK	SA	A	SYS	O/C	M-130-1B	C-3	CC CO	M3 M3			
Valve Name DO TRANSFER PUMP DISCHARGE CHECK VALVE															
2DO020A	3	C	1.5x2.5	RV	SA	A	C	O/C	M-130-1A	C-4	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
2DO020B	3	C	1.5x2.5	RV	SA	A	C	O/C	M-130-1B	C-3	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															
2DO020C	3	C	1.5x2.5	RV	SA	A	C	O/C	M-130-1A	C-4	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															

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Diesel Fuel Oil (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DO020D	3	C	1.5x2.5	RV	SA	A	C	O/C	M-130-1B	C-3	Rt	Y10			
Valve Name DO TRANSFER PUMP DISCHARGE RELIEF VALVE															

Fuel Pool Cooling (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FC009	2	A	4	BAL	M	P	LC	C	M-63-1A	C-7	Lt	AJ			
Valve Name REFUELING CAVITY TO PURIFIC PUMPS SUCTION ISOL VLV															
1FC010	2	A	4	BAL	M	P	LC	C	M-63-1A	C-6	Lt	AJ			
Valve Name REFUELING CAVITY TO PURIFIC PUMPS SUCTION ISOL VLV															
1FC011	2	A	3	BAL	M	P	LC	C	M-63-1C	B-6	Lt	AJ			
Valve Name SPENT FUEL PIT DEMIN TO REFUEL CAVITY MAN ISOL VLV															
1FC012	2	A	3	BAL	M	P	LC	C	M-63-1C	B-8	Lt	AJ			
Valve Name SPENT FUEL PIT DEMIN TO REFUEL CAVITY MAN ISOL VLV															
2FC009	2	A	4	BAL	M	P	LC	C	M-63-1A	B-7	Lt	AJ			
Valve Name REFUELING CAVITY TO PURIFIC PUMPS SUCTION ISOL VLV															
2FC010	2	A	4	BAL	M	P	LC	C	M-63-1A	B-6	Lt	AJ			
Valve Name REFUELING CAVITY TO PURIFIC PUMPS SUCTION ISOL VLV															
2FC011	2	A	3	BAL	M	P	LC	C	M-63-1B	B-2	Lt	AJ			
Valve Name SPENT FUEL PIT DEMIN TO REFUEL CAVITY MAN ISOL VLV															
2FC012	2	A	3	BAL	M	P	LC	C	M-63-1B	B-1	Lt	AJ			
Valve Name SPENT FUEL PIT DEMIN TO REFUEL CAVITY MAN ISOL VLV															

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Fire Protection (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FP010	2	B	4	GL	AO	A	O	C	M-52-1	E6	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name FIRE PROTECTION OUTBOARD CONTAINMENT ISOLATION VLV															
1FP345	2	C	6	CK	SA	A	C	C	M-52-1	E7	CCU	CM			CW00-02
											CO	CM			CW00-02
Valve Name FIRE PROTECTION INBOARD CONTAINMENT ISOLATION VLV															
1FP450	3	C	0.75x1.0	RV	SA	A	C	O/C	M-52-1	E-7	RT	Y10			
Valve Name FIRE PROTECTION RELIEF VALVE															
2FP010	2	B	4	GL	AO	A	O	C	M-52-1	E3	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name FIRE PROTECTION OUTBOARD CONTAINMENT ISOLATION VLV															
2FP345	2	C	6	CK	SA	A	C	C	M-52-1	E2	CCU	CM			CW00-02
											CO	CM			CW00-02
Valve Name FIRE PROTECTION INBOARD CONTAINMENT ISOLATION VLV															
2FP450	3	C	0.75x1.0	RV	SA	A	C	O/C	M-52-1	E2	RT	Y10			
Valve Name FIRE PROTECTION RELIEF VALVE															

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Main Feedwater (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FW009A	2	B	16	GA	HO	A	O	C	M-36-1C	C-5	PI	Y2			VA-4
											SC	CS		CS-3	VA-1
Valve Name HOV S/G FW ISOL VLV															
1FW009B	2	B	16	GA	HO	A	O	C	M-36-1A	C-5	PI	Y2			VA-4
											SC	CS		CS-3	VA-1
Valve Name HOV S/G FW ISOL VLV															
1FW009C	2	B	16	GA	HO	A	O	C	M-36-1D	C-5	PI	Y2			VA-4
											SC	CS		CS-3	VA-1
Valve Name HOV S/G FW ISOL VLV															
1FW009D	2	B	16	GA	HO	A	O	C	M-36-1B	C-5	PI	Y2			VA-4
											SC	CS		CS-3	VA-1
Valve Name HOV S/G FW ISOL VLV															
1FW034A	NC	B	2	GL	AO	A	O	C	M-36-1C	E-2	Fc	RR		RJ-14	VA-2
Valve Name S/G FEEDWATER TEMPERING FLOW CONTROL VALVE															
1FW034B	NC	B	2	GL	AO	A	O	C	M-36-1A	E-2	Fc	RR		RJ-14	VA-2
Valve Name S/G FEEDWATER TEMPERING FLOW CONTROL VALVE															
1FW034C	NC	B	2	GL	AO	A	O	C	M-36-1D	E-2	Fc	RR		RJ-14	VA-2
Valve Name S/G FEEDWATER TEMPERING FLOW CONTROL VALVE															
1FW034D	NC	B	2	GL	AO	A	O	C	M-36-1B	E-2	Fc	RR		RJ-14	VA-2
Valve Name S/G FEEDWATER TEMPERING FLOW CONTROL VALVE															
1FW035A	2	B	3	GL	AO	A	O	C	M-36-1C	E-3	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
1FW035B	2	B	3	GL	AO	A	O	C	M-36-1A	E-3	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
1FW035C	2	B	3	GL	AO	A	O	C	M-36-1D	E-3	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
1FW035D	2	B	3	GL	AO	A	O	C	M-36-1B	E-3	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
1FW036A	2	C	3	CK	SA	A	SYS	C	M-36-1C	E-3	CCA	CM			CW00-02
											CO	CM			02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															

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Main Feedwater (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FW036B	2	C	3	CK	SA	A	SYS	C	M-36-1A	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
1FW036C	2	C	3	CK	SA	A	SYS	C	M-36-1D	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
1FW036D	2	C	3	CK	SA	A	SYS	C	M-36-1B	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
1FW039A	2	B	6	GA	AO	A	C	C	M-36-1C	C-4	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G LOW FLOW FEEDWATER ISOLATION VALVE															
1FW039B	2	B	6	GA	AO	A	C	C	M-36-1A	C-4	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G LOW FLOW FEEDWATER ISOLATION VALVE															
1FW039C	2	B	6	GA	AO	A	C	C	M-36-1D	C-4	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G LOW FLOW FEEDWATER ISOLATION VALVE															
1FW039D	2	B	6	GA	AO	A	C	C	M-36-1B	C-4	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G LOW FLOW FEEDWATER ISOLATION VALVE															
1FW079A	2	B	16	CK	SA	A	SYS	C	M-36-1C	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
1FW079B	2	B	16	CK	SA	A	SYS	C	M-36-1A	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
1FW079C	2	B	16	CK	SA	A	SYS	C	M-36-1D	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
1FW079D	2	B	16	CK	SA	A	SYS	C	M-36-1B	C-3	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
1FW510	NC	B	16	AN	AO	A	O	C	M-36-1C	D-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING VALVE															

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Main Feedwater (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2FW035B	2	B	3	GL	AO	A	O	C	M-121-1D	E-3	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
2FW035C	2	B	3	GL	AO	A	O	C	M-121-1A	E-3	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
2FW035D	2	B	3	GL	AO	A	O	C	M-121-1C	E-3	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name S/G FEEDWATER TEMPERING ISOLATION VALVE															
2FW036A	2	C	3	CK	SA	A	SYS	C	M-121-1B	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
2FW036B	2	C	3	CK	SA	A	SYS	C	M-121-1D	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
2FW036C	2	C	3	CK	SA	A	SYS	C	M-121-1A	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
2FW036D	2	C	3	CK	SA	A	SYS	C	M-121-1C	E-3	CCA CO	CM CM			CW00-02 02, 01
Valve Name FEEDWATER TEMPERING LINE CHECK VALVE															
2FW039A	2	B	6	GA	AO	A	O	C	M-121-1B	C-4	Fc PI SC	CS Y2 CS		CS-9	VA-2 VA-4 VA-1
Valve Name S/G PREHEATER BYPASS ISOLATION VALVE															
2FW039B	2	B	6	GA	AO	A	O	C	M-121-1D	C-4	Fc PI SC	CS Y2 CS		CS-9	VA-2 VA-4 VA-1
Valve Name S/G PREHEATER BYPASS ISOLATION VALVE															
2FW039C	2	B	6	GA	AO	A	O	C	M-121-1A	C-4	Fc PI SC	CS Y2 CS		CS-9	VA-2 VA-4 VA-1
Valve Name S/G PREHEATER BYPASS ISOLATION VALVE															

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Main Feedwater (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2FW039D	2	B	6	GA	AO	A	O	C	M-121-1C	C-4	Fc PI SC	CS Y2 CS		CS-9 CS-9	VA-2 VA-4 VA-1
Valve Name S/G PREHEATER BYPASS ISOLATION VALVE															
2FW043A	2	B	3	GL	AO	A	C	C	M-121-1B	B-5	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name FEEDWATER ISOLATION VALVE BYPASS VALVE															
2FW043B	2	B	3	GL	AO	A	C	C	M-121-1D	B-5	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name FEEDWATER ISOLATION VALVE BYPASS VALVE															
2FW043C	2	B	3	GL	AO	A	C	C	M-121-1A	B-5	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name FEEDWATER ISOLATION VALVE BYPASS VALVE															
2FW043D	2	B	3	GL	AO	A	C	C	M-121-1C	B-5	Fc PI SC	M3 Y2 M3			VA-2 VA-4 VA-1
Valve Name FEEDWATER ISOLATION VALVE BYPASS VALVE															
2FW079A	2	B	16	CK	SA	A	SYS	C	M-121-1B	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
2FW079B	2	B	16	CK	SA	A	SYS	C	M-121-1D	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
2FW079C	2	B	16	CK	SA	A	SYS	C	M-121-1A	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
2FW079D	2	B	16	CK	SA	A	SYS	C	M-121-1C	C-4	CCD COD	CM CM	VR-1		CW00-02 CW00-02
Valve Name FEEDWATER ISOLATION CHECK VALVE															
2FW510	NC	B	16	AN	AO	A	O	C	M-121-1B	D-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING VALVE															
2FW510A	NC	B	4	GA	AO	A	C	C	M-121-1B	C-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING BYPASS VALVE															
2FW520	NC	B	16	AN	AO	A	O	C	M-121-1D	D-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING VALVE															

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Braidwood Station
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Main Feedwater (Page 6)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2FW520A	NC	B	4	GA	AO	A	C	C	M-121-1D	C-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING BYPASS VALVE															
2FW530	NC	B	16	AN	AO	A	O	C	M-121-1A	D-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING VALVE															
2FW530A	NC	B	4	GA	AO	A	C	C	M-121-1A	C-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING BYPASS VALVE															
2FW540	NC	B	16	AN	AO	A	O	C	M-121-1C	D-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING VALVE															
2FW540A	NC	B	4	GA	AO	A	C	C	M-121-1C	C-2	Fc	RR		RJ-14	VA-2
Valve Name FEEDWATER REGULATING BYPASS VALVE															

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Braidwood Station
IST PROGRAM PLAN

Radioactive Waste Gas (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0GW9300A	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-8	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															
0GW9300B	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-7	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															
0GW9300C	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-6	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															
0GW9300D	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-5	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															
0GW9300E	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-4	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															
0GW9300F	3	C	1.0x2.0	RV	SA	A	C	O/C	M-69-1	D-2	Rt	Y10			
Valve Name WASTE GAS DECAY TANK RELIEF VALVE															

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Braidwood Station
IST PROGRAM PLAN

Instrument Air Supply (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1IA065	2	A	3	GL	AO	A	O	C	M-55-10	C-1	Fc	RR		RJ-5	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	RR		RJ-5	VA-1
Valve Name IA SUPPLY CONTAINMENT ISOLATION VALVE															
1IA066	2	A	3	GL	AO	A	O	C	M-55-10	C-2	Fc	RR		RJ-5	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	RR		RJ-5	VA-1
Valve Name IA SUPPLY CONTAINMENT ISOLATION VALVE															
1IA091	2	AC	0.75	CK	SA	A	SYS	C	M-55-10	D-1	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name IA SUPPLY CONTAINMENT ISOLATION CHECK VALVE															
2IA065	2	A	3	GL	AO	A	O	C	M-55-15	D-8	Fc	RR		RJ-5	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	RR		RJ-5	VA-1
Valve Name IA SUPPLY CONTAINMENT ISOLATION VALVE															
2IA066	2	A	3	GL	AO	A	O	C	M-55-15	D-7	Fc	RR		RJ-5	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	RR		RJ-5	VA-1
Valve Name IA SUPPLY CONTAINMENT ISOLATION VALVE															
2IA091	2	AC	0.75	CK	SA	A	SYS	C	M-55-15	D-7	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name IA SUPPLY CONTAINMENT ISOLATION CHECK VALVE															

Braidwood Station
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Main Steam (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1MS001A	2	B	30.25	GA	HO	A	O	C	M-35-2	C-4	PI SC	Y2 CS		CS-1	VA-4 VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
1MS001B	2	B	32.75	GA	HO	A	O	C	M-35-1	E-5	PI SC	Y2 CS		CS-1	VA-4 VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
1MS001C	2	B	32.75	GA	HO	A	O	C	M-35-2	E-4	PI SC	Y2 CS		CS-1	VA-4 VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
1MS001D	2	B	30.25	GA	HO	A	O	C	M-35-1	B-5	PI SC	Y2 CS		CS-1	VA-4 VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
1MS013A	2	C	6	RV	SA	A	C	O/C	M-35-2	C-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS013B	2	C	6	RV	SA	A	C	O/C	M-35-1	F-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS013C	2	C	6	RV	SA	A	C	O/C	M-35-2	F-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS013D	2	C	6	RV	SA	A	C	O/C	M-35-1	C-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS014A	2	C	6	RV	SA	A	C	O/C	M-35-2	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS014B	2	C	6	RV	SA	A	C	O/C	M-35-1	F-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS014C	2	C	6	RV	SA	A	C	O/C	M-35-2	F-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS014D	2	C	6	RV	SA	A	C	O/C	M-35-1	C-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS015A	2	C	6	RV	SA	A	C	O/C	M-35-2	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS015B	2	C	6	RV	SA	A	C	O/C	M-35-1	F-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS015C	2	C	6	RV	SA	A	C	O/C	M-35-2	F-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS015D	2	C	6	RV	SA	A	C	O/C	M-35-1	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															

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Main Steam (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1MS016A	2	C	6	RV	SA	A	C	O/C	M-35-2	C-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS016B	2	C	6	RV	SA	A	C	O/C	M-35-1	F-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS016C	2	C	6	RV	SA	A	C	O/C	M-35-2	F-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS016D	2	C	6	RV	SA	A	C	O/C	M-35-1	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS017A	2	C	6	RV	SA	A	C	O/C	M-35-2	C-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS017B	2	C	6	RV	SA	A	C	O/C	M-35-1	F-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS017C	2	C	6	RV	SA	A	C	O/C	M-35-2	F-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS017D	2	C	6	RV	SA	A	C	O/C	M-35-1	C-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
1MS018A	2	B	6	RV	HO	A	C	O/C	M-35-2	C-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
1MS018B	2	B	6	RV	HO	A	C	O/C	M-35-1	F-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
1MS018C	2	B	6	RV	HO	A	C	O/C	M-35-2	F-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
1MS018D	2	B	6	RV	HO	A	C	O/C	M-35-1	C-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
1MS019A	2	B	8	GA	M	A	O	O/C	M-35-2	C-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															

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Main Steam (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1MS019B	2	B	8	GA	M	A	O	O/C	M-35-1	E-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
1MS019C	2	B	8	GA	M	A	O	O/C	M-35-2	E-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
1MS019D	2	B	8	GA	M	A	O	O/C	M-35-1	C-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
1MS101A	2	B	4	GL	AO	A	C	C	M-35-2	B-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
1MS101B	2	B	4	GL	AO	A	C	C	M-35-1	D-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
1MS101C	2	B	4	GL	AO	A	C	C	M-35-1	E-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
1MS101D	2	B	4	GL	AO	A	C	C	M-35-1	B-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
2MS001A	2	B	30.25	GA	HO	A	O	C	M-120-2A	D-5	PI	Y2			VA-4
											SC	CS		CS-1	VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
2MS001B	2	B	32.75	GA	HO	A	O	C	M-120-1	E-5	PI	Y2			VA-4
											SC	CS		CS-1	VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
2MS001C	2	B	32.75	GA	HO	A	O	C	M-120-2B	D-5	PI	Y2			VA-4
											SC	CS		CS-1	VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
2MS001D	2	B	30.25	GA	HO	A	O	C	M-120-1	B-5	PI	Y2			VA-4
											SC	CS		CS-1	VA-1
Valve Name STEAM GENERATOR MAIN STEAM ISOLATION VALVE															
2MS013A	2	C	6	RV	SA	A	C	O/C	M-120-2A	E-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS013B	2	C	6	RV	SA	A	C	O/C	M-120-1	E-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															

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Main Steam (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2MS013C	2	C	6	RV	SA	A	C	O/C	M-120-2B	E-5	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS013D	2	C	6	RV	SA	A	C	O/C	M-120-1	C-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS014A	2	C	6	RV	SA	A	C	O/C	M-120-2A	E-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS014B	2	C	6	RV	SA	A	C	O/C	M-120-1	E-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS014C	2	C	6	RV	SA	A	C	O/C	M-120-2B	E-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS014D	2	C	6	RV	SA	A	C	O/C	M-120-1	C-4	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS015A	2	C	6	RV	SA	A	C	O/C	M-120-2A	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS015B	2	C	6	RV	SA	A	C	O/C	M-120-1	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS015C	2	C	6	RV	SA	A	C	O/C	M-120-2B	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS015D	2	C	6	RV	SA	A	C	O/C	M-120-1	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS016A	2	C	6	RV	SA	A	C	O/C	M-120-2A	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS016B	2	C	6	RV	SA	A	C	O/C	M-120-1	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS016C	2	C	6	RV	SA	A	C	O/C	M-120-2B	E-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS016D	2	C	6	RV	SA	A	C	O/C	M-120-1	C-3	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS017A	2	C	6	RV	SA	A	C	O/C	M-120-2A	E-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS017B	2	C	6	RV	SA	A	C	O/C	M-120-1	E-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS017C	2	C	6	RV	SA	A	C	O/C	M-120-2B	E-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															
2MS017D	2	C	6	RV	SA	A	C	O/C	M-120-1	C-2	Rt	Y5			
Valve Name STEAM GENERATOR SAFETY VALVE															

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IST PROGRAM PLAN

Main Steam (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2MS018A	2	B	6	RV	HO	A	C	O/C	M-120-2A	E-1	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
2MS018B	2	B	6	RV	HO	A	C	O/C	M-120-1	E-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
2MS018C	2	B	6	RV	HO	A	C	O/C	M-120-2B	E-1	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
2MS018D	2	B	6	RV	HO	A	C	O/C	M-120-1	C-2	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name STEAM GENERATOR ATMOSPHERIC RELIEF VALVE															
2MS019A	2	B	8	GA	M	A	O	O/C	M-120-2A	D-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
2MS019B	2	B	8	GA	M	A	O	O/C	M-120-1	E-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
2MS019C	2	B	8	GA	M	A	O	O/C	M-120-2B	D-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
2MS019D	2	B	8	GA	M	A	O	O/C	M-120-1	C-2	SC	M3			VA-6
Valve Name SG PORV INLET ISOLATION MANUAL VALVES															
2MS010A	2	B	4	GL	AO	A	C	C	M-120-2A	C-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
2MS010B	2	B	4	GL	AO	A	C	C	M-120-1	D-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															

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Main Steam (Page 6)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2MS101C	2	B	4	GL	AO	A	C	C	M-120-2B	C-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															
2MS101D	2	B	4	GL	AO	A	C	C	M-120-1	B-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MAIN STEAM ISOLATION VALVE BYPASS VALVE															

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Off Gas (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
00G059	2	B	3	BTf	MO	A	C	O	M-47-2	C-3	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name H2 RECOMBINER INLET VALVE															
00G060	2	B	3	BTf	MO	P	O	O	M-47-2	D-5	PI	Y2			VA-4
Valve Name H2 RECOMBINER OUTLET VALVE															
00G061	2	B	3	BTf	MO	A	C	O/C	M-47-2	C-6	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name DISCH OF H2 RECOMBINER CONTAINMENT X-TIE															
00G062	2	B	3	BTf	MO	A	C	O/C	M-47-2	C-6	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name DISCH OF H2 RECOMBINER CONTAINMENT X-TIE															
00G063	2	B	3	BTf	MO	A	C	O/C	M-47-2	D-3	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name INLET OF H2 RECOMBINER CONTAINMENT X-TIE															
00G064	2	B	3	BTf	MO	A	C	O/C	M-47-2	D-3	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name INLET OF H2 RECOMBINER CONTAINMENT X-TIE															
00G065	2	B	3	BTf	MO	A	C	O	M-150-2	C-5	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name H2 RECOMBINER INLET VALVE															
00G066	2	B	3	BTf	MO	P	O	O	M-150-2	C-6	PI	Y2			VA-4
Valve Name H2 RECOMBINER OUTLET VALVE															
10G057A	2	A	3	BTf	MO	A	C	O/C	M-47-2	E-6	Lt	AJ			VA-4
											PI	Y2			VA-1
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
10G079	2	A	3	BTf	MO	A	C	O/C	M-47-2	E-6	LT	AJ			VA-4
											PI	Y2			VA-1
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
10G080	2	A	3	BTf	MO	A	C	O/C	M-47-2	E-5	Lt	AJ			VA-4
											PI	Y2			VA-1
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1OG081	2	A	3	BTF	MO	A	C	O/C	M-47-2	E-5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															
1OG082	2	A	3	BTF	MO	A	C	O/C	M-47-2	E-6	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
1OG083	2	A	3	BTF	MO	A	C	O/C	M-47-2	E-6	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
1OG084	2	A	3	BTF	MO	A	C	O/C	M-47-2	E-4	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															
1OG085	2	A	3	BTF	MO	A	C	O/C	M-47-2	E-4	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															
2OG057A	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-7	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
2OG079	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-7	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
2OG080	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-6	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2OG081	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-6	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															
2OG082	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-7	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
2OG083	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-7	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER DISCH CONTAINMENT ISOLATION VALVE															
2OG084	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															
2OG085	2	A	3	BTF	MO	A	C	O/C	M-150-2	E-5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 RECOMBINER SUCTION CONTAINMENT ISOLATION VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1PR001A	2	A	1	GL	AO	A	O	C	M-78-10	F8	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT ATMOSPHERE TO PR OUTSIDE ISOL VALVE															
1PR001B	2	A	1	GL	AO	A	O	C	M-78-10	F7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT ATMOSPHERE TO PR OUTSIDE ISOL VALVE															
1PR002E	2	A	2	GL	M	P	C	C	M-78-6	C5	Lt	AJ			
Valve Name RADIATION MONITOR DISCHARGE ISOL VALVE															
1PR002F	2	A	2	GL	M	P	C	C	M-78-6	C5	Lt	AJ			
Valve Name RADIATION MONITOR DISCHARGE ISOL VALVE															
1PR002G	2	AC	2	CK	SA	A	SYS	C	M-78-6	C4	CC	CM			CW00-02
											CO	NA			02, 04
											Lt	AJ			CW00-02
Valve Name RADIATION MONITOR DISCHARGE CHECK VALVE															
1PR002H	2	AC	2	CK	SA	A	SYS	C	M-78-6	C4	CC	CM			CW00-02
											CO	NA			02, 04
											Lt	AJ			CW00-02
Valve Name RADIATION MONITOR DISCHARGE CHECK VALVE															
1PR032	2	AC	1	CK	SA	A	SYS	C	M-78-10	E1	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name RAD MONITOR RETURN INSIDE CONTAINMENT CHECK VALVE															
1PR033A	2	A	2	GL	M	P	C	C	M-78-6	C8	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
1PR033B	2	A	2	GL	M	P	C	C	M-78-6	C7	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
1PR033C	2	A	2	GL	M	P	C	C	M-78-6	C8	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
1PR033D	2	A	2	GL	M	P	C	C	M-78-6	C7	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
1PR066	2	A	1	GL	AO	A	O	C	M-78-10	E1	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CNMT ATMOSPHERE SAMPLE RETURN OUTSIDE ISOL VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2PR001A	2	A	1	GL	AO	A	O	C	M-151-1	F8	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT ATMOSPHERE TO PR OUTSIDE ISOL VALVE															
2PR001B	2	A	1	GL	AO	A	O	C	M-151-1	F7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT ATMOSPHERE TO PR OUTSIDE ISOL VALVE															
2PR002E	2	A	2	GL	M	P	C	C	M-78-6	C5	Lt	AJ			
Valve Name RADIATION MONITOR DISCHARGE ISOL VALVE															
2PR002F	2	A	2	GL	M	P	C	C	M-78-6	C5	Lt	AJ			
Valve Name RADIATION MONITOR DISCHARGE ISOL VALVE															
2PR002G	2	AC	2	CK	SA	A	SYS	C	M-78-6	C4	CC	CM			CW00-02
											CO	NA			02, 04
											Lt	AJ			CW00-02
Valve Name RADIATION MONITOR DISCHARGE CHECK VALVE															
2PR002H	2	AC	2	CK	SA	A	SYS	C	M-78-6	C4	CC	CM			CW00-02
											CO	NA			02, 04
											Lt	AJ			CW00-02
Valve Name RADIATION MONITOR DISCHARGE CHECK VALVE															
2PR032	2	AC	1	CK	SA	A	SYS	C	M-151-1	E5	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name RAD MONITOR RETURN INSIDE CONTAINMENT CHECK VALVE															
2PR033A	2	A	2	GL	M	P	C	C	M-78-6	C8	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
2PR033B	2	A	2	GL	M	P	C	C	M-78-6	C7	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
2PR033C	2	A	2	GL	M	P	C	C	M-78-6	C8	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
2PR033D	2	A	2	GL	M	P	C	C	M-78-6	C7	Lt	AJ			
Valve Name RAD MONITOR MANUAL SUCTION ISOLATION VALVE															
2PR066	2	A	1	GL	AO	A	O	C	M-151-1	E5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CNMT ATMOSPHERE SAMPLE RETURN OUTSIDE ISOL VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1PS228A	2	A	0.5	GL	SO	A	O	O/C	M-68-7	E-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J PRI CONTAINMENT ISOL VALVE															
1PS228B	2	A	0.5	GL	SO	A	O	O/C	M-68-7	C-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J PRI CONTAINMENT ISOL VALVE															
1PS229A	2	A	0.5	GL	SO	A	O	O/C	M-68-7	E-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J SEC CONTAINMENT ISOL VALVE															
1PS229B	2	A	0.5	GL	SO	A	O	O/C	M-68-7	C-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J SEC CONTAINMENT ISOL VALVE															
1PS230A	2	A	1	GL	SO	A	C	O/C	M-68-7	D-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J CONTAINMENT RETURN VALVE															
1PS230B	2	A	1	GL	SO	A	C	O/C	M-68-7	B-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J CONTAINMENT RETURN VALVE															
1PS231A	2	A/C	0.75	CK	SA	A	SYS	O/C	M-68-7	D-8	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name PNL PS47J/48J H2 MON CNMT RETURN CHK VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1PS231B	2	A/C	0.75	CK	SA	A	SYS	O/C	M-68-7	B-8	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name PNL PS47J/48J H2 MON CNMT RETURN CHK VALVE															
1PS9354A	2	A	1	GL	AO	A	C	C	M-68-1B	D-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR STM TO HRSS SCP PS29J INSIDE CONTAINMENT															
1PS9354B	2	A	1	GL	AO	A	C	C	M-68-1B	D-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR STM TO HRSS SCP PS29J OUTSIDE CONTAINMENT															
1PS9355A	2	A	1	GL	AO	A	C	C	M-68-1B	B-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR LIQ TO HRSS SCP PS29J INSIDE CONTAINMENT															
1PS9355B	2	A	1	GL	AO	A	C	C	M-68-1B	B-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR LIQ TO HRSS SCP PS29J OUTSIDE CONTAINMENT															
1PS9356A	2	A	1	GL	AO	A	C	C	M-68-1A	D-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name RC TO HRSS SCP PS29J INSIDE CONTAINMENT ISOL															
1PS9356B	2	A	1	GL	AO	A	C	C	M-68-1A	D-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name RC TO HRSS SCP PS29J OUTSIDE CONTAINMENT ISOL															
1PS9357A	2	A	1	GL	AO	A	C	C	M-68-1B	A-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name ACCUM TANKS TO HRSS SCP PS29J ISOL VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1PS9357B	2	A	1	GL	AO	A	C	C	M-68-1B	A-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name ACCUM TANKS TO HRSS SCP PS29J ISOL VALVE															
2PS228A	2	A	0.5	GL	SO	A	O	O/C	M-140-6	E-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J PRI CONTAINMENT ISOL VALVE															
2PS228B	2	A	0.5	GL	SO	A	O	O/C	M-140-6	C-7	Fo	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J PRI CONTAINMENT ISOL VALVE															
2PS229A	2	A	0.5	GL	SO	A	O	O/C	M-140-6	E-6	Fo	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J SEC CONTAINMENT ISOL VALVE															
2PS229B	2	A	0.5	GL	SO	A	O	O/C	M-140-6	C-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J SEC CONTAINMENT ISOL VALVE															
2PS230A	2	A	1	GL	SO	A	C	O/C	M-140-6	D-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J CONTAINMENT RETURN VALVE															
2PS230B	2	A	1	GL	SO	A	C	O/C	M-140-6	B-7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name H2 MONITOR PS47J/48J CONTAINMENT RETURN VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2PS231A	2	A/C	0.75	CK	SA	A	SYS	O/C	M-140-6	D-8	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name PNL PS47J/48J H2 MON CNMT RETURN CHK VALVE															
2PS231B	2	A/C	0.75	CK	SA	A	SYS	O/C	M-140-6	B-8	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name PNL PS47J/48J H2 MON CNMT RETURN CHK VALVE															
2PS9354A	2	A	1	GL	AO	A	C	C	M-140-1B	D-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR STM TO HRSS SCP PS29J INSIDE CONTAINMENT															
2PS9354B	2	A	1	GL	AO	A	C	C	M-140-1B	D-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR STM TO HRSS SCP PS29J OUTSIDE CONTAINMENT															
2PS9355A	2	A	1	GL	AO	A	C	C	M-140-1B	B-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR LIQ TO HRSS SCP PS29J INSIDE CONTAINMENT															
2PS9355B	2	A	1	GL	AO	A	C	C	M-140-1B	B-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PZR LIQ TO HRSS SCP PS29J OUTSIDE CONTAINMENT															
2PS9356A	2	A	1	GL	AO	A	C	C	M-140-1A	D-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name RC TO HRSS SCP PS29J INSIDE CONTAINMENT ISOL															
2PS9356B	2	A	1	GL	AO	A	C	C	M-140-1A	D-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name RC TO HRSS SCP PS29J OUTSIDE CONTAINMENT ISOL															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2PS9357A	2	A	1	GL	AO	A	C	C	M-140-1B	A-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name ACCUM TANKS TO HRSS SCP PS29J ISOL VALVE															
2PS9357B	2	A	1	GL	AO	A	C	C	M-140-1B	A-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name ACCUM TANKS TO HRSS SCP PS29J ISOL VALVE															

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Reactor Coolant (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RC014A	1	B	1.00	GL	SO	A	C	O/C	M-60-1B	E-3	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
1RC014B	1	B	1.00	GL	SO	A	C	O/C	M-60-1B	F-3	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
1RC014C	1	B	1.00	GL	SO	A	C	O/C	M-60-1B	E-3	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
1RC014D	1	B	1.00	GL	SO	A	C	O/C	M-60-1B	F-3	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
1RY030A	3	C	0.75x1.00	RV	SA	P	C	O/C	M-60-8	F-7	Rt	Y10			
Valve Name PORV ACCUMULATOR RELIEF VALVE															
1RY030B	3	C	0.75x1.00	RV	SA	P	C	O/C	M-60-8	F-6	Rt	Y10			
Valve Name PORV ACCUMULATOR RELIEF VALVE															
1RY075	2	A	0.50	GL	M	P	LC	C	M-2060-6	C-3	Lt	AJ			
Valve Name DEAD WEIGHT TESTER ISOLATION VALVE															
1RY455A	1	B	3.00	GL	DF	A	C	O/C	M-60-5	C-8	Fc	CS		CS-14	VA-2
											PI	Y2			VA-4
											SC	CS		CS-14	VA-1
											SO	CS		CS-14	VA-1
Valve Name PRESSURIZER POWER OPERATED RELIEF VALVE (PORV)															
1RY456	1	B	3.00	GL	DF	A	C	O/C	M-60-5	D-8	Fc	CS		CS-14	VA-2
											PI	Y2			VA-4
											SC	CS		CS-14	VA-1
											SO	CS		CS-14	VA-1
Valve Name PRESSURIZER POWER OPERATED RELIEF VALVE (PORV)															
1RY8000A	1	B	3.00	GA	MO	A	O	O/C	M-60-5	C-8	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name PRESSURIZER PORV BLOCK VALVE															

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Reactor Coolant (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RY8000B	1	B	3.00	GA	MO	A	O	O/C	M-60-5	D-8	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name PRESSURIZER PORV BLOCK VALVE															
1RY8010A	1	C	6.00	RV	SA	A	C	O/C	M-60-5	E-6	PI	Y2			VA-4
											Rt	Y5			
Valve Name PRESSURIZER SAFETY VALVE															
1RY8010B	1	C	6.00	RV	SA	A	C	O/C	M-60-5	E-5	PI	Y2			VA-4
											Rt	Y5			
Valve Name PRESSURIZER SAFETY VALVE															
1RY8010C	1	C	6.00	RV	SA	A	C	O/C	M-60-5	E-4	PI	Y2			VA-4
											Rt	Y5			
Valve Name PRESSURIZER SAFETY VALVE															
1RY8025	2	A	0.375	GL	AO	A	C	C	M-60-6	F-2	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PRT GAS ANALYZER CONTAINMENT ISOLATION VALVE															
1RY8026	2	A	0.375	GL	AO	A	O	C	M-60-6	F-3	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PRT GAS ANALYZER CONTAINMENT ISOLATION VALVE															
1RY8028	2	A	3.00	DIA	AO	A	O	C	M-60-6	E-2	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name PRIMARY WATER SUPPLY TO PRT CONT ISOLATION VALVE															
1RY8033	2	A	0.75	DIA	AO	A	O	C	M-60-6	E-2	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name N2 SUPPLY TO PRT CONTAINMENT ISOLATION VALVE															
1RY8046	2	AC	3.00	CK	SA	A	SYS	C	M-60-6	E-3	CC	CM			CW00-02
											CO	CM			02, 01
											Lt	AJ			CW00-02
Valve Name PRIMARY WATER SUPPLY TO PRT CHECK VALVE															
1RY8047	2	AC	0.75	CK	SA	A	SYS	C	M-60-6	E-3	CC	CM			CW00-02
											CO	CM			02, 01
											Lt	AJ			CW00-02
Valve Name NITROGEN SUPPLY TO PRT CHECK VALVE															

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Reactor Coolant (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2RC014A	1	B	1.00	GL	SO	A	C	O/C	M-135-1B	F-2	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
2RC014B	1	B	1.00	GL	SO	A	C	O/C	M-135-1B	E-2	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
2RC014C	1	B	1.00	GL	SO	A	C	O/C	M-135-1B	F-2	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
2RC014D	1	B	1.00	GL	SO	A	C	O/C	M-135-1B	E-2	Fc	CS		CS-6	VA-2
											PI	Y2			VA-4
											SC	CS		CS-6	VA-1
											SO	CS		CS-6	VA-1
Valve Name REACTOR HEAD VENT ISOLATION VALVE															
2RY030A	3	C	0.75x1.00	RV	SA	P	C	O/C	M-135-8	F-7	Rt	Y10			
Valve Name PORV ACCUMULATOR RELIEF VALVE															
2RY030B	3	C	0.75x1.00	RV	SA	P	C	O/C	M-135-8	F-6	Rt	Y10			
Valve Name PORV ACCUMULATOR RELIEF VALVE															
2RY075	2	A	0.50	GL	M	P	LC	C	M-2135-6	E-6	Lt	AJ			
Valve Name DEAD WEIGHT TESTER ISOLATION VALVE															
2RY455A	1	B	3.00	GL	DF	A	C	O/C	M-135-5	C-8	Fc	CS		CS-14	VA-2
											PI	Y2			VA-4
											SC	CS		CS-14	VA-1
											SO	CS		CS-14	VA-1
Valve Name PRESSURIZER POWER OPERATED RELIEF VALVE (PORV)															
2RY456	1	B	3.00	GL	DF	A	C	O/C	M-135-5	D-8	Fc	CS		CS-14	VA-2
											PI	Y2			VA-4
											SC	CS		CS-14	VA-1
											SO	CS		CS-14	VA-1
Valve Name PRESSURIZER POWER OPERATED RELIEF VALVE (PORV)															
2RY8000A	1	B	3.00	GA	MO	A	O	O/C	M-135-5	C-8	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name PRESSURIZER PORV BLOCK VALVE															

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Reactor Coolant (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2RY8000B	1	B	3.00	GA	MO	A	O	O/C	M-135-5	D-8	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name PRESSURIZER PORV BLOCK VALVE															
2RY8010A	1	C	6.00	RV	SA	A	C	O/C	M-135-5	E-6	PI Rt	Y2 Y5			VA-4
Valve Name PRESSURIZER SAFETY VALVE															
2RY8010B	1	C	6.00	RV	SA	A	C	O/C	M-135-5	E-5	PI Rt	Y2 Y5			VA-4
Valve Name PRESSURIZER SAFETY VALVE															
2RY8010C	1	C	6.00	RV	SA	A	C	O/C	M-135-5	E-4	PI Rt	Y2 Y5			VA-4
Valve Name PRESSURIZER SAFETY VALVE															
2RY8025	2	A	0.375	GL	AO	A	C	C	M-135-6	F-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name PRT GAS ANALYZER CONTAINMENT ISOLATION VALVE															
2RY8026	2	A	0.375	GL	AO	A	O	C	M-135-6	F-3	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name PRT GAS ANALYZER CONTAINMENT ISOLATION VALVE															
2RY8028	2	A	3.00	DIA	AO	A	O	C	M-135-6	E-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name PRIMARY WATER SUPPLY TO PRT CONT ISOLATION VALVE															
2RY8033	2	A	0.75	DIA	AO	A	O	C	M-135-6	E-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name N2 SUPPLY TO PRT CONTAINMENT ISOLATION VALVE															
2RY8046	2	AC	3.00	CK	SA	A	SYS	C	M-135-6	E-3	CC CO Lt	CM CM AJ			CW00-02 02, 01 CW00-02
Valve Name PRIMARY WATER SUPPLY TO PRT CHECK VALVE															
2RY8047	2	AC	0.75	CK	SA	A	SYS	C	M-135-6	E-3	CC CO Lt	CM CM AJ			CW00-02 02, 01 CW00-02
Valve Name NITROGEN SUPPLY TO PRT CHECK VALVE															

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Reactor Building and Containment Equipment Drains to Radwaste (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RE040	2	AC	.75x1.0	RV	SA	A	C	O/C	M-70-1		LT RT	AJ Y10			
Valve Name RE PUMPS DISCHARGE RELIEF VLV															
1RE1003	2	A	3	DIA	AO	A	C	C	M-70-1	B-3	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT PUMPS DISCHARGE CONTAINMENT ISOLATION VALVE															
1RE9157	2	A	1	DIA	AO	A	O	C	M-70-1	C-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT NITROGEN SUPPLY CONTAINMENT ISOLATION VALVE															
1RE9159A	2	A	0.75	DIA	AO	A	O	C	M-70-1	E-3	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO AUTO GAS ANALYZER CONTAINMENT ISOL VALVE															
1RE9159B	2	A	0.75	DIA	AO	A	C	C	M-70-1	E-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO AUTO GAS ANALYZER CONTAINMENT ISOL VALVE															
1RE9160A	2	A	1	DIA	AO	A	O	C	M-70-1	D-3	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO WASTE GAS COMPRESSOR CONTAINMENT ISOL VLV															
1RE9160B	2	A	1	DIA	AO	A	O	C	M-70-1	D-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO WASTE GAS COMPRESSOR CONTAINMENT ISOL VLV															
1RE9170	2	A	3	DIA	AO	A	O	C	M-70-1	B-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT PUMPS DISCHARGE CONTAINMENT ISOLATION VALVE															

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Reactor Building and Containment Equipment Drains to Radwaste (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2RE040	2	AC	.75x1.0	RV	SA	A	C	O/C	M-141-1	C-6	LT RT	AJ Y10			
Valve Name RE PUMPS DISCHARGE RELIEF VLV															
2RE1003	2	A	3	DIA	AO	A	C	C	M-141-1	C-6	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT PUMPS DISCHARGE CONTAINMENT ISOLATION VALVE															
2RE9157	2	A	1	DIA	AO	A	O	C	M-141-1	D-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT NITROGEN SUPPLY CONTAINMENT ISOLATION VALVE															
2RE9159A	2	A	0.75	DIA	AO	A	O	C	M-141-1	E-6	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO AUTO GAS ANALYZER CONTAINMENT ISOL VALVE															
2RE9159B	2	A	0.75	DIA	AO	A	C	C	M-141-1	E-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO AUTO GAS ANALYZER CONTAINMENT ISOL VALVE															
2RE9160A	2	A	1	DIA	AO	A	O	C	M-141-1	E-6	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO WASTE GAS COMPRESSOR CONTAINMENT ISOL VLV															
2RE9160B	2	A	1	DIA	AO	A	O	C	M-141-1	E-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT TO WASTE GAS COMPRESSOR CONTAINMENT ISOL VLV															
2RE9170	2	A	3	DIA	AO	A	O	C	M-141-1	C-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RCDT PUMPS DISCHARGE CONTAINMENT ISOLATION VALVE															

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Reactor Building and Containment Floor Drains to Radwaste (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RF026	2	A	2	PLG	AO	A	O	C	M-48-6B	F-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RF PUMPS DISCHARGE CONTAINMENT ISOLATION VLV															
1RF027	2	A	2	PLG	AO	A	O	C	M-48-6A	E-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RF PUMPS DISCHARGE CONTAINMENT ISOLATION VLV															
1RF060	2	AC	.75x1.0	RV	SA	A	C	O/C	M-48-6B		LT RT	AJ Y10			
Valve Name RF PUMPS DISCHARGE RELIEF VLV															
2RF026	2	A	2	PLG	AO	A	O	C	M-48-6B	D-2	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RF PUMPS DISCHARGE CONTAINMENT ISOLATION VLV															
2RF027	2	A	2	PLG	AO	A	O	C	M-48-6A	B-7	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name RF PUMPS DISCHARGE CONTAINMENT ISOLATION VLV															
2RF060	2	AC	.75x1.0	RV	SA	A	C	O/C	M-48-6B	D-1	LT RT	AJ Y10			
Valve Name RF PUMPS DISCHARGE RELIEF VLV															

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Residual Heat Removal (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RH610	2	B	3	GA	MO	A	O	O/C	M-62	F-4	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RHR PUMP MINIFLOW VALVE															
1RH611	2	B	3	GA	MO	A	O	O/C	M-62	A-4	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RHR PUMP MINIFLOW VALVE															
1RH8701A	1	A	12	GA	MO	A	C	C	M-62	E-2	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV A RH PP SUCT FROM A HL DWST ISOL VLV															
1RH8701B	1	A	12	GA	MO	A	C	C	M-62	E-1	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV A RH PP SUCT FROM A HL UPST ISOL VLV															
1RH8702A	1	A	12	GA	MO	A	C	C	M-62	D-2	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV B RH PP SUCT FROM C HL DWST ISOL VLV															
1RH8702B	1	A	12	GA	MO	A	C	C	M-62	D-1	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV B RH PP SUCT FROM C HL UPST ISOL VLV															
1RH8705A	2	AC	0.75	CK	SA	A	SYS	O/C	M-62	D-1	CC	RR		CS-15	
											CO	RR		RJ-9	
											Lt	Y2			
Valve Name RH SUCTION ISOLATION CHECK VALVE															
1RH8705B	2	AC	0.75	CK	SA	A	SYS	O/C	M-62	C-1	CC	RR		CS-15	
											CO	RR		RJ-9	
											Lt	Y2			
Valve Name RH SUCTION ISOLATION CHECK VALVE															
1RH8708A	2	C	3.0 x 4.0	RV	SA	A	C	O/C	M-62	E-2	Rt	Y10			
Valve Name RH PP SUCT HDR RLF VLV															
1RH8708B	2	C	3.0 x 4.0	RV	SA	A	C	O/C	M-62	D-2	Rt	Y10			
Valve Name RH PP SUCT HDR RLF VLV															

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Residual Heat Removal (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RH8716A	2	B	8	GA	MO	A	O	O/C	M-62	D-8	PI	Y2			VA-4
											SC	CS		CS-18	VA-1
											SO	CS		CS-18	VA-1
Valve Name RHR PUMP DISCHARGE CROSSOVER ISOLATION VALVE															
1RH8716B	2	B	8	GA	MO	A	O	O/C	M-62	C-8	PI	Y2			VA-4
											SC	CS		CS-18	VA-1
											SO	CS		CS-18	VA-1
Valve Name RHR PUMP DISCHARGE CROSSOVER ISOLATION VALVE															
1RH8730A	2	C	8	CK	SA	A	C	O/C	M-62	E-4	CC	CS		CS-7	
											CO	CS		CS-7	
											CP	M3			
Valve Name RH PP RH01PA/B DSCH CHK VLV															
1RH8730B	2	C	8	CK	SA	A	C	O/C	M-62	C-4	CC	CS		CS-7	
											CO	CS		CS-7	
											CP	M3			
Valve Name RH PP RH01PA/B DSCH CHK VLV															
2RH610	2	B	3	GA	MO	A	O	O/C	M-137	F-4	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RHR PUMP MINIFLOW VALVE															
2RH611	2	B	3	GA	MO	A	O	O/C	M-137	B-4	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RHR PUMP MINIFLOW VALVE															
2RH8701A	1	A	12	GA	MO	A	C	C	M-137	E-7	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV A RH PP SUCT FROM A HL DWST ISOL VLV															
2RH8701B	1	A	12	GA	MO	A	C	C	M-137	E-8	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV A RH PP SUCT FROM A HL UPST ISOL VLV															
2RH8702A	1	A	12	GA	MO	A	C	C	M-137	D-7	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV B RH PP SUCT FROM C HL DWST ISOL VLV															
2RH8702B	1	A	12	GA	MO	A	C	C	M-137	D-8	Lt	Y2			
											PI	Y2			VA-4
											SC	CS		CS-5	VA-1
Valve Name MOV B RH PP SUCT FROM C HL UPST ISOL VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SA032	2	A	1.5	GA	AO	A	O	C	M-54-2	D6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV CNMT SA SUP HDR OUTSIDE CNMT ISOL VLV															
1SA033	2	A	1.5	GA	AO	A	O	C	M-54-2	D7	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV CNMT SA SUP HDR INSIDE CNMT ISOL VLV															
2SA032	2	A	1.5	GA	AO	A	O	C	M-54-2	D3	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV CNMT SA SUP HDR OUTSIDE CNMT ISOL VLV															
2SA033	2	A	1.5	GA	AO	A	O	C	M-54-2	D2	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV CNMT SA SUP HDR INSIDE CNMT ISOL VLV															

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Steam Generator Blowdown (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SD002A	2	A	2	GL	AO	A	O	C	M-48-5A	D-8	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002B	2	A	2	GL	AO	A	O	C	M-48-5A	D-7	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002C	2	A	2	GL	AO	A	O	C	M-48-5A	D-6	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002D	2	A	2	GL	AO	A	O	C	M-48-5A	D-6	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002E	2	A	2	GL	AO	A	O	C	M-48-5A	D-5	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002F	2	A	2	GL	AO	A	O	C	M-48-5A	D-4	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002G	2	A	2	GL	AO	A	O	C	M-48-5A	D-3	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
1SD002H	2	A	2	GL	AO	A	O	C	M-48-5A	D-2	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															

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Steam Generator Blowdown (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SD005A	2	A	0.375	GL	AO	A	O	C	M-68-8	F-7	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN SAMPLE VALVE															
1SD005B	2	A	0.375	GL	AO	A	O	C	M-68-8	D-7	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN SAMPLE VALVE															
1SD005C	2	A	0.375	GL	AO	A	O	C	M-68-8	F-4	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN SAMPLE VALVE															
1SD005D	2	A	0.375	GL	AO	A	O	C	M-68-8	D-4	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN SAMPLE VALVE															
1SD054A	2	B	2	GL	AO	A	O	C	M-48-5A	D-8	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054B	2	B	2	GL	AO	A	O	C	M-48-5A	D-7	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054C	2	B	2	GL	AO	A	O	C	M-48-5A	D-6	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054D	2	B	2	GL	AO	A	O	C	M-48-5A	D-6	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054E	2	B	2	GL	AO	A	O	C	M-48-5A	D-5	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054F	2	B	2	GL	AO	A	O	C	M-48-5A	D-4	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															

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Steam Generator Blowdown (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SD054G	2	B	2	GL	AO	A	O	C	M-48-5A	D-3	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
1SD054H	2	B	2	GL	AO	A	O	C	M-48-5A	D-2	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1
Valve Name STEAM GENERATOR BLOWDOWN ISOLATION															
2SD002A	2	A	2	GL	AO	A	O	C	M-48-5B	C-8	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
2SD002B	2	A	2	GL	AO	A	O	C	M-48-5B	C-7	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
2SD002C	2	A	2	GL	AO	A	O	C	M-48-5B	C-6	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
2SD002D	2	A	2	GL	AO	A	O	C	M-48-5B	C-6	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
2SD002E	2	A	2	GL	AO	A	O	C	M-48-5B	C-5	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															
2SD002F	2	A	2	GL	AO	A	O	C	M-48-5B	C-4	Fc	M3			VA-2
											Lt	Y2			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name STEAM GENERATOR BLOWDOWN UPPER/LOWER ISOL VALVE															

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Steam Generator Blowdown (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SD054H	2	B	2	GL	AO	A	O	C	M-48-5B	C-2	Fc	CS		CS-23	VA-2
											SC	CS		CS-23	VA-1

Valve Name STEAM GENERATOR BLOWDOWN ISOLATION

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Safety Injection (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI121A	2	C	0.75x1.0	RV	SA	A	C	O	M-61-4	C-5	Rt	Y10			
Valve Name CONTAINMENT SUMP ISOLATION VALVE RELIEF VALVE															
1SI121B	2	C	0.75x1.0	RV	SA	A	C	O	M-61-4	B-4	Rt	Y10			
Valve Name CONTAINMENT SUMP ISOLATION VALVE RELIEF VALVE															
1SI8801A	2	B	4.000	GA	MO	A	C	O/C	M-61-2	D-3	PI	Y2			VA-4
											SC	CS		CS-12	VA-1
											SO	CS		CS-12	VA-1
Valve Name CHARGING TO COLD LEG INJECTION MOV															
1SI8801B	2	B	4.000	GA	MO	A	C	O/C	M-61-2	C-3	PI	Y2			VA-4
											SC	CS		CS-12	VA-1
											SO	CS		CS-12	VA-1
Valve Name CHARGING TO COLD LEG INJECTION MOV															
1SI8802A	2	B	4	GA	MO	A	C	O/C	M-61-3	E-3	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV SI PP DSCH OUTSIDE CNMT ISOL VLV															
1SI8802B	2	B	4	GA	MO	A	C	O/C	M-61-3	D-3	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV SI PP DSCH OUTSIDE CNMT ISOL VLV															
1SI8804B	2	B	8	GA	MO	A	C	O/C	M-61-1A	C-4	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name RH HX TO SI PUMP SUCTION ISOLATION VALVE															
1SI8806	2	B	8	GA	MO	A	O	O/C	M-61-1A	D-2	PI	Y2			VA-4
											SC	CS		CS-13	VA-1,VA-6
Valve Name MOV RWST TO SI PPS SUCT HDR ISOL VLV															
1SI8807A	2	B	6.000	GA	MO	A	C	O/C	M-61-1A	E-2	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name MOV SI TO CV PPS SUCT HDR XTIE ISOL VL															
1SI8807B	2	B	6.000	GA	MO	A	C	O/C	M-61-1A	E-2	PI	Y2			VA-4
											SO	M3			VA-1,VA-6
Valve Name MOV SI TO CV PPS SUCT HDR XTIE ISOL VL															
1SI8808A	1	B	10	GA	MO	A	O	O/C	M-61-5	C-6	PI	Y2			VA-4
											SC	CS		CS-21	VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
1SI8808B	1	B	10	GA	MO	A	O	O/C	M-61-5	C-3	PI	Y2			VA-4
											SC	CS		CS-21	VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8808C	1	B	10	GA	MO	A	O	O/C	M-61-6	C-7	PI	Y2			VA-4
											SC	CS		CS-21	VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
1SI8808D	1	B	10	GA	MO	A	O	O/C	M-61-6	C-4	PI	Y2			VA-4
											SC	CS		CS-21	VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
1SI8809A	2	B	8	GA	MO	A	O	O/C	M-61-4	E-4	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV RH HX SI OUTLET DWST ISOL VLV															
1SI8809B	2	B	8	GA	MO	A	O	O/C	M-61-4	D-4	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV RH HX SI OUTLET DWST ISOL VLV															
1SI8811A	2	B	24	GA	MO	A	C	O/C	M-61-4	C-5	PI	Y2			VA-4
											SC	RR		RJ-4	VA-1
											SO	RR		RJ-4	VA-1
Valve Name MOV CNMT RECIRC SUMP OUTLET ISOL VLV															
1SI8811B	2	B	24	GA	MO	A	C	O/C	M-61-4	A-5	PI	Y2			VA-4
											SC	RR		RJ-4	VA-1
											SO	RR		RJ-4	VA-1
Valve Name MOV CNMT RECIRC SUMP OUTLET ISOL VLV															
1SI8812A	2	B	12	GA	MO	A	O	O/C	M-61-4	D-4	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name MOV RH PP RWST SUCT ISOL VLV															
1SI8812B	2	B	12	GA	MO	A	O	O/C	M-61-4	B-4	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name MOV RH PP RWST SUCT ISOL VLV															
1SI8813	2	B	2	GL	MO	A	O	O/C	M-61-1B	D-7	PI	Y2			VA-4
											SC	CS		CS-13	VA-1,VA-6
Valve Name SAFETY INJECTION PUMP MIN FLOW ISOLATION VALVE															
1SI8814	2	B	1.5	GL	MO	A	O	O/C	M-61-1A	F-6	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name SI PUMP MINIMUM FLOW ISOLATION VALVE															
1SI8815	1	AC	3	CK	SA	A	SYS	O/C	M-61-2	D-5	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name COLD LEG HDR SI SUP CHK VLV															

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Safety Injection (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8818A	1	AC	6.000	CK	SA	A	C	O/C	M-61-4	F-7	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
1SI8818B	1	AC	6.000	CK	SA	A	C	O/C	M-61-4	D-7	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
1SI8818C	1	AC	6.000	CK	SA	A	C	O/C	M-61-4	D-7	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
1SI8818D	1	AC	6.000	CK	SA	A	C	O/C	M-61-4	E-7	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
1SI8819A	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	A-5	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP 1 COLD LEG SI CHK VLV															
1SI8819B	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	A-7	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP 2 COLD LEG SI CHK VLV															
1SI8819C	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	A-7	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP 3 COLD LEG SI CHK VLV															
1SI8819D	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	A-6	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP 4 COLD LEG SI CHK VLV															
1SI8821A	2	B	4	GA	MO	A	O	O/C	M-61-3	D-3	PI	Y2		VA-4	
											SC	M3		VA-1	
											SO	M3		VA-1	
Valve Name MOV SI PP DSCH XTIE TO CL ISOL VLV															
1SI8821B	2	B	4	GA	MO	A	O	O/C	M-61-3	D-3	PI	Y2		VA-4	
											SC	M3		VA-1	
											SO	M3		VA-1	
Valve Name MOV SI PP DSCH XTIE TO CL ISOL VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8835	2	B	4	GA	MO	A	O	O/C	M-61-3	C-4	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV SI PPS DSCH XTIE TO CL ISOL VLV															
1SI8840	2	B	12	GA	MO	A	C	O/C	M-61-3	B-4	PI	Y2			VA-4
											SC	CS		CS-13	VA-1
											SO	CS		CS-13	VA-1
Valve Name MOV RH HXS TO 1A/1C LOOP HL ISOL VLV															
1SI8841A	1	AC	8	CK	SA	A	SYS	O/C	M-61-3	E-5	CC	RR		CS-15	
											CO	RR		RJ-8	
											Lt	Y2			
Valve Name RHR HOT LEG INJECTION 1ST CHECK VALVE															
1SI8841B	1	AC	8	CK	SA	A	SYS	O/C	M-61-3	C-7	CC	RR		CS-15	
											CO	RR		RJ-8	
											Lt	Y2			
Valve Name RHR HOT LEG INJECTION 1ST CHECK VALVE															
1SI8842	2	C	0.75x1.0	RV	SA	A	C	O/C	M-61-3	B-3	Rt	Y10			
Valve Name RHR HX OUTLET RELIEF VALVE															
1SI8851	2	C	0.75x1.0	RV	SA	A	C	O/C	M-61-3	C-4	Rt	Y10			
Valve Name SI TO COLD LEG RELIEF VALVE															
1SI8853A	2	C	0.75x1.0	RV	SA	A	C	O/C	M-61-3	F-3	Rt	Y10			
Valve Name SI PUMP DISCHARGE RELIEF VALVE TO HOT LEG															
1SI8853B	2	C	0.75x1.0	RV	SA	A	C	O/C	M-61-3	B-3	Rt	Y10			
Valve Name SI PUMP DISCHARGE RELIEF VALVE TO HOT LEG															
1SI8855A	2	C	1.0x2.0	RV	SA	A	C	O/C	M-61-5	E-6	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
1SI8855B	2	C	1.0x2.0	RV	SA	A	C	O/C	M-61-5	E-3	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
1SI8855C	2	C	1.0x2.0	RV	SA	A	C	O/C	M-61-6	E-7	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
1SI8855D	2	C	1.0x2.0	RV	SA	A	C	O/C	M-61-6	E-4	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
1SI8856A	2	C	2.0x3.0	RV	SA	A	C	O/C	M-61-4	F-3	Rt	Y10			
Valve Name RHR HX OUTLET HEADER RELIEF VALVE															
1SI8856B	2	C	2.0x3.0	RV	SA	A	C	O/C	M-61-4	E-3	Rt	Y10			
Valve Name RHR HX OUTLET HEADER RELIEF VALVE															
1SI8858	2	C	1.0x0.75	RV	SA	A	C	O/C	M-61-1A	E-3	Rt	Y10			
Valve Name SAFETY INJECTION SUCTION RELIEF VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8871	2	A	0.750	GL	AO	A	C	C	M-61-6	A-3	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV ACCUM FILL/TEST INSIDE CNMT ISOL VLV															
1SI8880	2	A	1.000	GL	AO	A	C	C	M-61-6	F-3	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV ACCUM N2 SUP OUTSIDE CNMT ISOL VLV															
1SI8888	2	A	0.75	GL	AO	A	C	C	M-61-3	E-3	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV SI PPS TO ACCUM FILL OUTSIDE CNMT ISO															
1SI8900A	1	AC	1.5	CK	SA	A	C	O/C	M-61-2	F-7	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
1SI8900B	1	AC	1.5	CK	SA	A	C	O/C	M-61-2	D-7	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
1SI8900C	1	AC	1.5	CK	SA	A	C	O/C	M-61-2	C-7	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
1SI8900D	1	AC	1.5	CK	SA	A	C	O/C	M-61-2	B-7	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
1SI8905A	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	E-4	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															
1SI8905B	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	D-7	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8905C	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	C-7	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP HOT LEG SI CHK VLV															
1SI8905D	1	AC	2	CK	SA	A	SYS	O/C	M-61-3	E-4	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP HOT LEG SI CHK VLV															
1SI8919A	2	C	1.500	CK	SA	A	SYS	O	M-61-1A	F-7	CC CO	M3 M3			
Valve Name SAFETY INJECTION PUMP MINIMUM FLOW CHECK VALVE															
1SI8919B	2	C	1.500	CK	SA	A	SYS	O	M-61-1A	E-6	CC CO	M3 M3			
Valve Name SAFETY INJECTION PUMP MINIMUM FLOW CHECK VALVE															
1SI8920	2	B	1.5	GL	MO	A	O	O/C	M-61-1A	E-6	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name SI PUMP MINIMUM FLOW ISOLATION VALVE															
1SI8922A	2	C	4.000	CK	SA	A	SYS	O/C	M-61-1A	E-7	CC CO	M3 RR		RJ-6	
Valve Name SAFETY INJECTION PUMP DISCHARGE CHECK VALVE															
1SI8922B	2	C	4.000	CK	SA	A	SYS	O/C	M-61-1A	C-6	CC CO	M3 RR		RJ-6	
Valve Name SAFETY INJECTION PUMP DISCHARGE CHECK VALVE															
1SI8923A	2	B	6.000	GA	MO	P	O	O	M-61-1A	E-4	PI	Y2			VA-4
Valve Name SI PUMP SUCTION FROM RWST ISOLATION VALVE															
1SI8923B	2	B	6.000	GA	MO	P	O	O	M-61-1A	C-3	PI	Y2			VA-4
Valve Name SI PUMP SUCTION FROM RWST ISOLATION VALVE															
1SI8924	2	B	6	GA	MO	A	O	O	M-61-1A	F-2	PI SO	Y2 M3			VA-4 VA-1
Valve Name MOV SI/CV PPS SUCT HDR XTIE ISOL VLV															
1SI8926	2	C	8	CK	SA	A	SYS	O/C	M-61-1A	D-2	CCA CO CP	CM RR M3		RJ-6	CW00-02 CW00-02
Valve Name SI PPS SUCT CHK VLV															
1SI8948A	1	AC	10	CK	SA	A	C	O/C	M-61-5	B-8	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8948B	1	AC	10	CK	SA	A	C	O/C	M-61-5	B-5	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
1SI8948C	1	AC	10	CK	SA	A	C	O/C	M-61-6	B-8	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
1SI8948D	1	AC	10	CK	SA	A	C	O/C	M-61-6	B-5	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
1SI8949A	1	AC	6	CK	SA	A	SYS	O/C	M-61-3	E-8	CC	RR		CS-15	
											CO	RR		RJ-8	
											Lt	Y2			
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
1SI8949B	1	AC	6	CK	SA	A	C	O/C	M-61-3	D-8	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
1SI8949C	1	AC	6	CK	SA	A	SYS	O/C	M-61-3	C-8	CC	RR		CS-15	
											CO	RR		RJ-8	
											Lt	Y2			
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
1SI8949D	1	AC	6	CK	SA	A	C	O/C	M-61-3	E-8	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
1SI8956A	1	AC	10.000	CK	SA	A	SYS	O/C	M-61-5	B-7	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
1SI8956B	1	AC	10.000	CK	SA	A	SYS	O/C	M-61-5	B-4	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
1SI8956C	1	AC	10.000	CK	SA	A	SYS	O/C	M-61-6	B-7	CC	RR		CS-15	CW00-02
											COA	CM			CW00-02
											Lt	Y2			CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SI8956D	1	AC	10.000	CK	SA	A	SYS	O/C	M-61-6	B-5	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
1SI8958A	2	C	12	CK	SA	A	SYS	O/C	M-61-4	D-4	CC CO	M3 CS		CS-8	
Valve Name RH PP SUCT CHK VLV															
1SI8958B	2	C	12	CK	SA	A	SYS	O/C	M-61-4	B-4	CC CO	M3 CS		CS-8	
Valve Name RH PP SUCT CHK VLV															
1SI8964	2	A	0.750	GL	AO	A	C	C	M-61-6	D-3	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name AOV ACCUM FILL/TEST TO RWST/RECY HUTS ISO															
1SI8968	2	AC	1	CK	SA	A	SYS	C	M-61-6	F-4	CC CO Lt	CM CM AJ			CW00-02 CW00-02 CW00-02
Valve Name N2 SUP INSIDE CNMT CHK VLV															
2SI121A	2	C	0.75x1.0	RV	SA	A	C	O	M-136-4	C-6	Rt	Y10			
Valve Name CONTAINMENT SUMP ISOLATION VALVE RELIEF VALVE															
2SI121B	2	C	0.75x1.0	RV	SA	A	C	O	M-136-4	A-6	Rt	Y10			
Valve Name CONTAINMENT SUMP ISOLATION VALVE RELIEF VALVE															
2SI8801A	2	B	4.000	GA	MO	A	C	O/C	M-136-2	D-6	PI SC SO	Y2 CS CS		CS-12 CS-12	VA-4 VA-1 VA-1
Valve Name CHARGING TO COLD LEG INJECTION MOV															
2SI8801B	2	B	4.000	GA	MO	A	C	O/C	M-136-2	C-6	PI SC SO	Y2 CS CS		CS-12 CS-12	VA-4 VA-1 VA-1
Valve Name CHARGING TO COLD LEG INJECTION MOV															
2SI8802A	2	B	4	GA	MO	A	C	O/C	M-136-3	E-6	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV SI PP DSCH OUTSIDE CNMT ISOL VLV															
2SI8802B	2	B	4	GA	MO	A	C	O/C	M-136-3	D-6	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV SI PP DSCH OUTSIDE CNMT ISOL VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8804B	2	B	8	GA	MO	A	C	O/C	M-136-1	B-5	PI SO	Y2 M3			VA-4 VA-1,VA-6
Valve Name MOV B RH HX TO B SI PP SUCT HDR ISOL VLV															
2SI8806	2	B	8	GA	MO	A	O	O/C	M-136-1	C-6	PI SC	Y2 CS		CS-13	VA-4 VA-1,VA-6
Valve Name MOV RWST TO SI PPS SUCT HDR ISOL VLV															
2SI8807A	2	B	6.000	GA	MO	A	C	O/C	M-136-1	D-5	PI SO	Y2 M3			VA-4 VA-1,VA-6
Valve Name MOV SI TO CV PPS SUCT HDR XTIE ISOL VL															
2SI8807B	2	B	6.000	GA	MO	A	C	O/C	M-136-1	D-6	PI SO	Y2 M3			VA-4 VA-1,VA-6
Valve Name MOV SI TO CV PPS SUCT HDR XTIE ISOL VL															
2SI8808A	1	B	10	GA	MO	A	O	O/C	M-136-5	C-3	PI SC	Y2 CS		CS-21	VA-4 VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
2SI8808B	1	B	10	GA	MO	A	O	O/C	M-136-5	C-6	PI SC	Y2 CS		CS-21	VA-4 VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
2SI8808C	1	B	10	GA	MO	A	O	O/C	M-136-6	D-2	PI SC	Y2 CS		CS-21	VA-4 VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
2SI8808D	1	B	10	GA	MO	A	O	O/C	M-136-6	D-5	PI SC	Y2 CS		CS-21	VA-4 VA-1,VA-6
Valve Name ACCUMULATOR DISCHARGE ISOLATION VALVE - MOV															
2SI8809A	2	B	8	GA	MO	A	O	O/C	M-136-4	E-5	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV RH HX SI OUTLET DWST ISOL VLV															
2SI8809B	2	B	8	GA	MO	A	O	O/C	M-136-4	D-5	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV RH HX SI OUTLET DWST ISOL VLV															
2SI8811A	2	B	24	GA	MO	A	C	O/C	M-136-4	C-5	PI SC SO	Y2 RR RR		RJ-4 RJ-4	VA-4 VA-1 VA-1
Valve Name MOV CNMT RECIRC SUMP OUTLET ISOL VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8811B	2	B	24	GA	MO	A	C	O/C	M-136-4	A-5	PI	Y2			VA-4
											SC	RR		RJ-4	VA-1
											SO	RR		RJ-4	VA-1
Valve Name MOV CNMT RECIRC SUMP OUTLET ISOL VLV															
2SI8812A	2	B	12	GA	MO	A	O	O/C	M-136-4	D-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name MOV RH PP RWST SUCT ISOL VLV															
2SI8812B	2	B	12	GA	MO	A	O	O/C	M-136-4	B-7	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name MOV RH PP RWST SUCT ISOL VLV															
2SI8813	2	B	2	GL	MO	A	O	O/C	M-136-1	E-4	PI	Y2			VA-4
											SC	CS		CS-13	VA-1,VA-6
Valve Name SAFETY INJECTION PUMP MIN FLOW ISOLATION VALVE															
2SI8814	2	B	1.5	GL	MO	A	O	O/C	M-136-1	D-4	PI	Y2			VA-4
											SC	M3			VA-1,VA-6
Valve Name SI PUMP MINIMUM FLOW ISOLATION VALVE															
2SI8815	1	AC	3	CK	SA	A	SYS	O/C	M-136-2	D-4	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name COLD LEG HDR SI SUP CHK VLV															
2SI8818A	1	AC	6.000	CK	SA	A	C	O/C	M-136-4	F-2	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
2SI8818B	1	AC	6.000	CK	SA	A	C	O/C	M-136-4	D-2	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
2SI8818C	1	AC	6.000	CK	SA	A	C	O/C	M-136-4	E-2	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															
2SI8818D	1	AC	6.000	CK	SA	A	C	O/C	M-136-4	E-2	CC	CS		CS-8	
											CO	CS		CS-8	
											Lt	Y2			
Valve Name LOOP _ COLD LEG ACCUM INJ CHK VLV															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8819A	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	B-4	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP _ COLD LEG SI CHK VLV															
2SI8819B	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	B-2	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP _ COLD LEG SI CHK VLV															
2SI8819C	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	B-2	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP _ COLD LEG SI CHK VLV															
2SI8819D	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	B-3	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name LOOP _ COLD LEG SI CHK VLV															
2SI8821A	2	B	4	GA	MO	A	O	O/C	M-136-3	D-6	PI SC SO	Y2 M3 M3			VA-4 VA-1 VA-1
Valve Name MOV SI PP DSCH XTIE TO CL ISOL VLV															
2SI8821B	2	B	4	GA	MO	A	O	O/C	M-136-3	D-6	PI SC SO	Y2 M3 M3			VA-4 VA-1 VA-1
Valve Name MOV SI PP DSCH XTIE TO CL ISOL VLV															
2SI8835	2	B	4	GA	MO	A	O	O/C	M-136-3	C-5	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV SI PPS DSCH XTIE TO CL ISOL VLV															
2SI8840	2	B	12	GA	MO	A	C	O/C	M-136-3	A-5	PI SC SO	Y2 CS CS		CS-13 CS-13	VA-4 VA-1 VA-1
Valve Name MOV RH HXS TO 1A/1C LOOP HL ISOL VLV															
2SI8841A	1	AC	8	CK	SA	A	SYS	O/C	M-136-3	E-4	CC CO Lt	RR RR Y2		CS-15 RJ-8	
Valve Name RHR HOT LEG INJECTION 1ST CHECK VALVE															
2SI8841B	1	AC	8	CK	SA	A	SYS	O/C	M-136-3	C-2	CC CO Lt	RR RR Y2		CS-15 RJ-8	
Valve Name RHR HOT LEG INJECTION 1ST CHECK VALVE															

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Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8842	2	C	0.75x1.0	RV	SA	A	C	O/C	M-136-3	B-6	Rt	Y10			
Valve Name RHR HX OUTLET RELIEF VALVE															
2SI8851	2	C	0.75x1.0	RV	SA	A	C	O/C	M-136-3	C-5	Rt	Y10			
Valve Name SI TO COLD LEG RELIEF VALVE															
2SI8853A	2	C	0.75x1.0	RV	SA	A	C	O/C	M-136-3	F-6	Rt	Y10			
Valve Name SI PUMP DISCHARGE RELIEF VALVE TO HOT LEG															
2SI8853B	2	C	0.75x1.0	RV	SA	A	C	O/C	M-136-3	B-6	Rt	Y10			
Valve Name SI PUMP DISCHARGE RELIEF VALVE TO HOT LEG															
2SI8855A	2	C	1.0x2.0	RV	SA	A	C	O/C	M-136-5	E-4	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
2SI8855B	2	C	1.0x2.0	RV	SA	A	C	O/C	M-136-5	E-6	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
2SI8855C	2	C	1.0x2.0	RV	SA	A	C	O/C	M-136-6	E-2	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
2SI8855D	2	C	1.0x2.0	RV	SA	A	C	O/C	M-136-6	E-5	Rt	Y10			
Valve Name ACCUMULATOR RELIEF VALVE															
2SI8856A	2	C	2.0x3.0	RV	SA	A	C	O/C	M-136-4	F-6	Rt	Y10			
Valve Name RHR HX OUTLET HEADER RELIEF VALVE															
2SI8856B	2	C	2.0x3.0	RV	SA	A	C	O/C	M-136-4	E-6	Rt	Y10			
Valve Name RHR HX OUTLET HEADER RELIEF VALVE															
2SI8858	2	C	1.0x0.75	RV	SA	A	C	O/C	M-136-1	D-5	Rt	Y10			
Valve Name SAFETY INJECTION SUCTION RELIEF VALVE															
2SI8871	2	A	0.750	GL	AO	A	C	C	M-136-6	B-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV ACCUM FILL/TEST INSIDE CNMT ISOL VLV															
2SI8880	2	A	1.000	GL	AO	A	C	C	M-136-6	F-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV ACCUM N2 SUP OUTSIDE CNMT ISOL VLV															
2SI8888	2	A	0.75	GL	AO	A	C	C	M-136-3	E-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV SI PPS TO ACCUM FILL OUTSIDE CNMT ISO															

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Safety Injection (Page 13)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8900A	1	AC	1.5	CK	SA	A	C	O/C	M-136-2	F-2	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
2SI8900B	1	AC	1.5	CK	SA	A	C	O/C	M-136-2	D-2	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
2SI8900C	1	AC	1.5	CK	SA	A	C	O/C	M-136-2	C-2	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
2SI8900D	1	AC	1.5	CK	SA	A	C	O/C	M-136-2	B-2	CC	RR		CS-15	
											CO	RR		RJ-7	
											Lt	Y2			
Valve Name LOOP COLD LEG SI SUP CHK VLV															
2SI8905A	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	E-5	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															
2SI8905B	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	D-2	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															
2SI8905C	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	C-2	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															
2SI8905D	1	AC	2	CK	SA	A	SYS	O/C	M-136-3	E-5	CC	RR		CS-15	
											CO	RR		RJ-6	
											Lt	Y2			
Valve Name LOOP HOT LEG SI CHK VLV															
2SI8919A	2	C	1.500	CK	SA	A	SYS	O	M-136-1	D-4	CC	M3			
											CO	M3			
Valve Name SAFETY INJECTION PUMP MINIMUM FLOW CHECK VALVE															
2SI8919B	2	C	1.500	CK	SA	A	SYS	O	M-136-1	C-4	CC	M3			
											CO	M3			
Valve Name SAFETY INJECTION PUMP MINIMUM FLOW CHECK VALVE															

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Safety Injection (Page 14)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8920	2	B	1.5	GL	MO	A	O	O/C	M-136-1	C-4	PI SC	Y2 M3			VA-4 VA-1,VA-6
Valve Name MOV B SI PP DSCH RECIRC ISOL VLV															
2SI8922A	2	C	4.000	CK	SA	A	SYS	O/C	M-136-1	D-3	CC CO	M3 RR		RJ-6	
Valve Name SAFETY INJECTION PUMP DISCHARGE CHECK VALVE															
2SI8922B	2	C	4.000	CK	SA	A	SYS	O/C	M-136-1	B-3	CC CO	M3 RR		RJ-6	
Valve Name SAFETY INJECTION PUMP DISCHARGE CHECK VALVE															
2SI8923A	2	B	6.000	GA	MO	P	O	O	M-136-1	C-5	PI	Y2			VA-4
Valve Name SI PUMP SUCTION FROM RWST ISOLATION VALVE															
2SI8923B	2	B	6.000	GA	MO	P	O	O	M-136-1	B-5	PI	Y2			VA-4
Valve Name SI PUMP SUCTION FROM RWST ISOLATION VALVE															
2SI8924	2	B	6	GA	MO	A	O	O	M-136-1	D-6	PI SO	Y2 M3			VA-4 VA-1
Valve Name MOV SI/CV PPS SUCT HDR XTIE ISOL VLV															
2SI8926	2	C	8	CK	SA	A	SYS	O/C	M-136-1	C-6	CCA CO CP	CM RR M3		RJ-6	CW00-02 CW00-02
Valve Name SI PPS SUCT CHK VLV															
2SI8948A	1	AC	10	CK	SA	A	C	O/C	M-136-5	B-2	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
2SI8948B	1	AC	10	CK	SA	A	C	O/C	M-136-5	B-5	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
2SI8948C	1	AC	10	CK	SA	A	C	O/C	M-136-6	B-1	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															
2SI8948D	1	AC	10	CK	SA	A	C	O/C	M-136-6	B-4	CC COA Lt	RR CM Y2		CS-15	CW00-02 CW00-02 CW00-02
Valve Name ACCUM OUTLET TO RC LOOP 2ND CHK VLV															

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Safety Injection (Page 15)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8949A	1	AC	6	CK	SA	A	SYS	O/C	M-136-3	E-1	CC CO Lt	RR RR Y2		CS-15 RJ-8	
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
2SI8949B	1	AC	6	CK	SA	A	C	O/C	M-136-3	D-1	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
2SI8949C	1	AC	6	CK	SA	A	SYS	O/C	M-136-3	C-1	CC CO Lt	RR RR Y2		CS-15 RJ-8	
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
2SI8949D	1	AC	6	CK	SA	A	C	O/C	M-136-3	E-1	CC CO Lt	RR RR Y2		CS-15 RJ-6	
Valve Name HOT LEG RECIRCULATION CHECK VALVE															
2SI8956A	1	AC	10.000	CK	SA	A	SYS	O/C	M-136-5	B-3	CC COA Lt	RR CM Y2		CS-15 CW00-02 CW00-02 CW00-02	
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
2SI8956B	1	AC	10.000	CK	SA	A	SYS	O/C	M-136-5	B-6	CC COA Lt	RR CM Y2		CS-15 CW00-02 CW00-02 CW00-02	
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
2SI8956C	1	AC	10.000	CK	SA	A	SYS	O/C	M-136-6	B-2	CC COA Lt	RR CM Y2		CS-15 CW00-02 CW00-02 CW00-02	
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
2SI8956D	1	AC	10.000	CK	SA	A	SYS	O/C	M-136-6	B-4	CC COA Lt	RR CM Y2		CS-15 CW00-02 CW00-02 CW00-02	
Valve Name ACCUM OUTLET TO RC LOOP 1ST CHK VLV															
2SI8958A	2	C	12	CK	SA	A	SYS	O/C	M-136-4	C-7	CC CO	M3 CS		CS-8	
Valve Name RH PP SUCT CHK VLV															
2SI8958B	2	C	12	CK	SA	A	SYS	O/C	M-136-4	B-7	CC CO	M3 CS		CS-8	
Valve Name RH PP SUCT CHK VLV															

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Safety Injection (Page 16)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SI8964	2	A	0.750	GL	AO	A	C	C	M-136-6	D-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV ACCUM FILL/TEST TO RWST/RECY HUTS ISO															
2SI8968	2	AC	1	CK	SA	A	SYS	C	M-136-6	F-5	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name N2 SUP INSIDE CNMT CHK VLV															

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Essential Service Water (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0SX007	3	B	24	BTF	MO	A	C	O	M-42-2A	E-4	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name COMMON CCW HX OUTLET ISOLATION VALVE															
0SX146	3	B	30	BTF	MO	A	C	O	M-42-2A	D-3	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name COMMON COMPONENT COOLING HX OUTLET ISOLATION															
0SX147	3	B	30	BTF	MO	A	C	O	M-42-2A	D-3	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name COMMON COMPONENT COOLING HX OUTLET ISOLATION															
1SX002A	3	C	36	CK	SA	A	SYS	O/C	M-42-1B	E-6	CC	M3			
											CO	M3			
Valve Name ESW PUMP DISCHARGE CHECK VALVE															
1SX002B	3	C	36	CK	SA	A	SYS	O/C	M-42-1A	E-6	CC	M3			
											CO	M3			
Valve Name ESW PUMP DISCHARGE CHECK VALVE															
1SX004	3	B	30	BTF	MO	P	O	O	M-42-1B	E-2	PI	Y2			VA-4
Valve Name COMPONENT COOLING WATER HX INLET ISOLATION VALVE															
1SX005	3	B	30	BTF	MO	A	C	O	M-42-1A	E-2	PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW SUPPLY VALVE TO THE COMMON CC HX															
1SX010	3	B	42	BTF	MO	P	O	O	M-42-2B	E-1	PI	Y2			VA-4
Valve Name ESW TRAIN A RETURN HEADER ISOLATION VALVE															
1SX011	3	B	42	BTF	MO	P	O	O	M-42-2B	C-1	PI	Y2			VA-4
Valve Name ESW TRAIN CROSS TIE ISOLATION VALVE															
1SX016A	2	B	16	BTF	MO	A	O	O/C	M-42-5B	F-7	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX SUPPLY ISOLATION VALVE															
1SX016B	2	B	16	BTF	MO	A	O	O/C	M-42-5A	F-2	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX SUPPLY ISOLATION VALVE															
1SX027A	2	B	16	BTF	MO	A	O	O/C	M-42-5B	C-7	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX RETURN HEADER ISOLATION VALVE															

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Essential Service Water (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1SX027B	2	B	16	BTF	MO	A	O	O/C	M-42-5A	C-2	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX RETURN HEADER ISOLATION VALVE															
1SX033	3	B	36	BTF	MO	P	O	O	M-42-1B	D-2	PI	Y2			VA-4
Valve Name ESW TRAIN B CROSS TIE ISOLATION VALVE															
1SX034	3	B	36	BTF	MO	P	O	O	M-42-1A	F-2	PI	Y2			VA-4
Valve Name ESW TRAIN A CROSS TIE ISOLATION VALVE															
1SX101A	3	B	1.5	GL	SO	A	C	O	M-42-3	E-3	Fo	M3			VA-2, VA-6
											SO	M3			
Valve Name AFW MOTOR PUMP OIL COOLER ESW OUTLET VALVE															
1SX112A	3	B	12	BTF	AO	A	O	C	M-42-3	E-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX SUPPLY VALVE															
1SX112B	3	B	12	BTF	AO	A	O	C	M-42-3	C-5	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX SUPPLY VALVE															
1SX114A	3	B	12	BTF	AO	A	O	C	M-42-3	E-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX RETURN VALVE															
1SX114B	3	B	12	BTF	AO	A	O	C	M-42-3	C-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX RETURN VALVE															
1SX136	3	B	42	BTF	MO	P	O	O	M-42-2A	C-1	PI	Y2			VA-4
Valve Name TRAIN B ESW RETRUN HEADER ISOLATION VALVE															
1SX147A	3	B	16	BTF	AO	A	O	O	M-42-3	E-4	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RCFC RETURN PRESSURE CONTROL VALVE															
1SX147B	3	B	16	BTF	AO	A	O	O	M-42-3	B-4	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RCFC RETURN PRESSURE CONTROL VALVE															

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Essential Service Water (Page 4)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SX016B	2	B	16	BTF	MO	A	O	O/C	M-126-3	D-1	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX SUPPLY ISOLATION VALVE															
2SX027A	2	B	16	BTF	MO	A	O	O/C	M-126-3	B-8	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX RETURN HEADER ISOLATION VALVE															
2SX027B	2	B	16	BTF	MO	A	O	O/C	M-126-3	C-1	PI	Y2			VA-4
											SC	M3			VA-1
											SO	M3			VA-1
Valve Name RCFC SX RETURN HEADER ISOLATION VALVE															
2SX033	3	B	36	BTF	MO	P	O	O	M-42-1B	B-3	PI	Y2			VA-4
Valve Name ESW TRAIN B CROSS TIE ISOLATION VALVE															
2SX034	3	B	36	BTF	MO	P	O	O	M-42-1A	D-3	PI	Y2			VA-4
Valve Name ESW TRAIN A CROSS TIE ISOLATION VALVE															
2SX101A	3	B	1.5	GL	SO	A	C	O	M-126-1	E-6	Fo	M3			VA-2, VA-6
											SO	M3			
Valve Name AFW MOTOR PUMP OIL COOLER ESW OUTLET VALVE															
2SX112A	3	B	12	BTF	AO	A	O	C	M-126-1	E-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX SUPPLY VALVE															
2SX112B	3	B	12	BTF	AO	A	O	C	M-126-1	C-4	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX SUPPLY VALVE															
2SX114A	3	B	12	BTF	AO	A	O	C	M-126-1	E-6	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX RETURN VALVE															
2SX114B	3	B	12	BTF	AO	A	O	C	M-126-1	C-6	Fc	M3			VA-2
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name CONTAINMENT CHILLER SX RETURN VALVE															
2SX136	3	B	42	BTF	MO	P	O	O	M-42-2A	C-1	PI	Y2			VA-4
Valve Name TRAIN B ESW RETRUN HEADER ISOLATION VALVE															

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Essential Service Water (Page 5)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2SX147A	3	B	16	BTF	AO	A	O	O	M-126-1	E-5	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RCFC RETURN PRESSURE CONTROL VALVE															
2SX147B	3	B	16	BTF	AO	A	O	O	M-126-1	C-5	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RCFC RETURN PRESSURE CONTROL VALVE															
2SX169A	3	B	10	BTF	AO	A	C	O	M-126-1	F-1	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RETURN HEADER FROM DG JACKET WATER ISOL VALVE															
2SX169B	3	B	10	BTF	AO	A	C	O	M-126-1	D-1	Fo	M3			VA-2
											PI	Y2			VA-4
											SO	M3			VA-1
Valve Name ESW RETURN HEADER FROM DG JACKET WATER ISOL VALVE															
2SX173	3	B	6	GA	AO	A	C	O	M-126-1	C-6	Fo	M3			VA-2
											SO	M3			VA-1
Valve Name ENGINE DRIVEN COOLING WATER PUMP SX04P SUPPLY VLV															
2SX174	3	C	6	CK	SA	A	SYS	O	M-126-1	C-7	CC	CM			CW00-02
											CO	M3			
Valve Name ENGINE DRIVEN CLG WTR PP SX04P OUTLET CHECK VALVE															
2SX178	3	B	6	GA	AO	A	C	O	M-126-1	A-6	Fo	M3			VA-2
											SO	M3			VA-1
Valve Name AFW PUMP B ESW RETURN ISOLATION VALVE															

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Primary Containment Purge (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VQ001A	2	A	48	BTF	HO	A	C	C	M-105-1	E-5	FC Lt PI SC	CS AJ Y2 CS		CS-24 CS-24	VA-2 VA-4
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
1VQ001B	2	A	48	BTF	HO	A	C	C	M-105-1	E-6	FC Lt PI SC	CS AJ Y2 CS		CS-24 CS-24	VA-2 VA-4
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
1VQ002A	2	A	48	BTF	HO	A	C	C	M-105-1	E-4	FC Lt PI SC	CS AJ Y2 CS		CS-24 CS-24	VA-2 VA-4
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
1VQ002B	2	A	48	BTF	HO	A	C	C	M-105-1	E-3	FC Lt PI SC	CS AJ Y2 CS		CS-24 CS-24	VA-2 VA-4
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
1VQ003	2	A	8	BTF	AO	A	C	C	M-105-1	C-4	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name POST LOCA PURGE INLET ISOLATION VALVE															
1VQ004A	2	A	8	BTF	AO	A	C	C	M-105-1	D-5	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name MINIFLOW PURGE SUPPLY ISOLATION VALVE															
1VQ004B	2	A	8	BTF	AO	A	C	C	M-105-1	D-6	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name MINIFLOW PURGE SUPPLY ISOLATION VALVE															
1VQ005A	2	A	8	BTF	AO	A	C	C	M-105-1	F-4	Fc Lt PI SC	M3 AJ Y2 M3			VA-2 VA-4 VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															

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Primary Containment Purge (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VQ005B	2	A	8	BTF	AO	A	C	C	M-105-1	F-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															
1VQ005C	2	A	8	BTF	AO	A	C	C	M-105-1	F-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															
1VQ016	2	A	0.5	GL	M	P	C	C	M-105-3	C-6	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
1VQ017	2	A	0.5	GL	M	P	C	C	M-105-3	C-6	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
1VQ018	2	A	0.5	GL	M	P	C	C	M-105-3	C-5	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
1VQ019	2	A	0.5	GL	M	P	C	C	M-105-3	C-5	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
2VQ001A	2	A	48	BTF	HO	A	C	C	M-106-1	E-5	FC	CS		CS-24	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-24	
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
2VQ001B	2	A	48	BTF	HO	A	C	C	M-106-1	E-6	FC	CS		CS-24	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-24	
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
2VQ002A	2	A	48	BTF	HO	A	C	C	M-106-1	E-4	FC	CS		CS-24	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-24	
Valve Name CONTAINMENT PURGE ISOLATION VALVE															
2VQ002B	2	A	48	BTF	HO	A	C	C	M-106-1	E-3	FC	CS		CS-24	VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	CS		CS-24	
Valve Name CONTAINMENT PURGE ISOLATION VALVE															

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Primary Containment Purge (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2VQ003	2	A	8	BTF	AO	A	C	C	M-106-1	C-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name AOV POST LOCA PURGE FLTR INLET VLV															
2VQ004A	2	A	8	BTF	AO	A	C	C	M-106-1	D-5	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE SUPPLY ISOLATION VALVE															
2VQ004B	2	A	8	BTF	AO	A	C	C	M-106-1	E-6	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE SUPPLY ISOLATION VALVE															
2VQ005A	2	A	8	BTF	AO	A	C	C	M-106-1	F-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															
2VQ005B	2	A	8	BTF	AO	A	C	C	M-106-1	F-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															
2VQ005C	2	A	8	BTF	AO	A	C	C	M-106-1	F-4	Fc	M3			VA-2
											Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name MINIFLOW PURGE EXHAUST ISOLATION VALVE															
2VQ016	2	A	0.5	GL	M	P	C	C	M-105-3	C-3	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
2VQ017	2	A	0.5	GL	M	P	C	C	M-105-3	C-3	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
2VQ018	2	A	0.5	GL	M	P	C	C	M-105-3	C-4	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															
2VQ019	2	A	0.5	GL	M	P	C	C	M-105-3	C-5	Lt	AJ			
Valve Name INSTRUMENT PENETRATION ISOLATION VALVE															

Braidwood Station
IST PROGRAM PLAN

Make-Up Demineralizer (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1WM190	2	A	2	GL	M	P	LC	C	M-49-1A	E-5	Lt	AJ			
Valve Name MAKE UP DEMIN SUPPLY CONTAINMENT ISOL MANUAL VLV															
1WM191	2	AC	2	CK	SA	A	SYS	C	M-49-1A	E-6	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name MAKE UP DEMIN SUPPLY CONTAINMENT ISOL CHECK VLV															
2WM190	2	A	2	GL	M	P	LC	C	M-49-1B	E-4	Lt	AJ			
Valve Name MAKE UP DEMIN SUPPLY CONTAINMENT ISOL MANUAL VLV															
2WM191	2	AC	2	CK	SA	A	SYS	C	M-49-1B	E-3	CC	CM			CW00-02
											CO	CM			CW00-02
											Lt	AJ			CW00-02
Valve Name MAKE UP DEMIN SUPPLY CONTAINMENT ISOL CHECK VLV															

Braidwood Station
IST PROGRAM PLAN

Chilled Water (Page 1)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0WO002A	3	C	6	CK	SA	A	SYS	O	M-118-1	D-6	CC CO	CM M3			CW00-02
Valve Name CHILLED WATER PUMP DISCHARGE CHECK VALVE															
0WO002B	3	C	6	CK	SA	A	SYS	O	M-118-1	B-6	CC CO	CM M3			CW00-02
Valve Name CHILLED WATER PUMP DISCHARGE CHECK VALVE															
0WO028A	3	C	1.5x2.5	RV	SA	A	C	O/C	M-118-1	E-8	Rt	Y10			
Valve Name CONTROL ROOM CHILLED WATER RELIEF VALVE															
0WO028B	3	C	1.5x2.5	RV	SA	A	C	O/C	M-118-1	C-8	Rt	Y10			
Valve Name CONTROL ROOM CHILLED WATER RELIEF VALVE															
0WO205A	3	C	1	CK	SA	A	SYS	C	M-118-1	E-6	CC CO	CM CM			VA-9, 02 VA-9, 02
Valve Name DEMIN WATER MAKEUP TO CHILLED WATER CHECK VALVE															
0WO205B	3	C	1	CK	SA	A	SYS	C	M-118-1	C-6	CC CO	CM CM			VA-9, 02 VA-9, 02
Valve Name DEMIN WATER MAKEUP TO CHILLED WATER CHECK VALVE															
1WO006A	2	A	10	GA	MO	A	O	C	M-118-5	E-5	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO006B	2	A	10	GA	MO	A	O	C	M-118-5	B-4	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO007A	2	AC	10	CK	SA	A	SYS	C	M-118-5	E-5	CC CO Lt	CM CM AJ			CW00-02 CW00-02 CW00-02
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO007B	2	AC	10	CK	SA	A	SYS	C	M-118-5	B-4	CC CO Lt	CM CM AJ			CW00-02 CW00-02 CW00-02
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO020A	2	A	10	GA	MO	A	O	C	M-118-5	D-5	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															

Braidwood Station
IST PROGRAM PLAN

Chilled Water (Page 2)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1WO020B	2	A	10	GA	MO	A	O	C	M-118-5	B-4	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO056A	2	A	10	GA	MO	A	O	C	M-118-5	D-5	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO056B	2	A	10	GA	MO	A	O	C	M-118-5	B-3	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
1WO091A	2	C	.75x1	RV	SA	A	C	O	M-118-5	D-5	LT RT	AJ Y10			
Valve Name WO Relief Valve															
1WO091B	2	C	.75x1	RV	SA	A	C	O	M-118-5	B-4	LT RT	AJ Y10			
Valve Name WO Relief Valve															
2WO006A	2	A	10	GA	MO	A	O	C	M-118-7	E-5	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO006B	2	A	10	GA	MO	A	O	C	M-118-7	B-4	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO007A	2	AC	10	CK	SA	A	SYS	C	M-118-7	E-5	CC CO Lt	CM CM AJ			CW00-02 CW00-02 CW00-02
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO007B	2	AC	10	CK	SA	A	SYS	C	M-118-7	B-3	CC CO Lt	CM CM AJ			CW00-02 CW00-02 CW00-02
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO020A	2	A	10	GA	MO	A	O	C	M-118-7	D-5	Lt PI SC	AJ Y2 M3			VA-4 VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															

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Braidwood Station
IST PROGRAM PLAN

Chilled Water (Page 3)

Valve EPN	Safety Class	Category	Size	Valve Type	Act. Type	Active / Passive	Normal Position	Safety Position	P&ID	P&ID Coord.	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2WO020B	2	A	10	GA	MO	A	O	C	M-118-7	B-4	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO056A	2	A	10	GA	MO	A	O	C	M-118-7	D-5	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO056B	2	A	10	GA	MO	A	O	C	M-118-7	B-3	Lt	AJ			
											PI	Y2			VA-4
											SC	M3			VA-1
Valve Name WO SUPPLY TO RCFC CLG COILS CONTAINMENT ISOL VLV															
2WO091A	2	C	.75x1	RV	SA	A	C	O	M-118-7	D-5	LT	AJ			
											RT	Y10			
Valve Name WO Relief Valve															
2WO091B	2	C	.75x1	RV	SA	A	C	O	M-118-7	B-4	LT	AJ			
											RT	Y10			
Valve Name WO Relief Valve															

Revision Date: 09/01/2001