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NL-17-2005

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

Joseph M. Farley Nuclear Plant – Units 1 and 2
Fifth Ten-Year Interval Inservice Testing Program Update

Ladies and Gentlemen:

In accordance with the American Society of Mechanical Engineers (ASME) Code for Operation and Maintenance of Nuclear Power Plants (OM Code), Subsection ISTA-3200(a), "Administrative Requirements," attached for your information is a copy of version 2.0 of the Inservice Testing (IST) Program for the fifth ten-year interval. The fifth ten-year interval IST Program Plan complies with the requirements of the ASME OM Code 2004 Edition through the 2006 Addenda. The fifth ten-year interval began on December 1, 2017 and concludes on November 30, 2027.

The IST Program Plan update was revised in August of 2018 is submitted in March of 2019 which is after the start of the ten-year interval.

This letter contains no NRC commitments. If you have any questions, please contact Jamie Coleman at 205.992.6611.

Respectfully submitted,

Cheryl A. Gayheart
Regulatory Affairs Director

CAG/ndj/sm

Enclosure: FNP – Units 1 and 2 Fifth Ten-Year Interval Inservice Testing Program, Version 2.0

Cc: Regional Administrator, Region II
NRR Project Manager – Farley Nuclear Plant
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RTYPE: CFA04.054

Enclosure

Joseph M. Farley Nuclear Plant – Units 1 and 2
Fifth Ten Year- Interval Inservice Testing Program Update

FNP – Units 1 and 2
Fifth Ten-Year Interval Inservice Testing Program, Version 2.0

Joseph M. Farley Nuclear Plant
Fifth 10-Year Interval
Inservice Testing Program

Version	Completion Date	Description
1.0	10/31/2017	Initial Issuance – 2004 Edition of the ASME OM Code through 2006 Addenda is the Code of Record for the IST Interval starting on December 1, 2017 and ending November 30, 2027. (LDCR 2016-025)
2.0	5/10/2018	Revision to change Charging Pump Discharge check valves Q1/2E21V0122A/B/C from category "C" to category "AC". (LDCR 2018-017)

Engineering Programs' Signatures

Preparer: Mitchell Etten-Bohm / _____ Date: 5/10/18
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Reviewer: Jordan Rice / _____ Date: 5-21-18
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Approver: Sean Phillips / _____ Date: 5-21-18
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Joseph M. Farley Nuclear Plant
050-00348 (Unit 1) and 050-00364 (Unit 2)
7388 North State Highway 95
Columbia, AL 36319
Construction Permit Issue Date: 08/16/1972 (Unit 1 & 2)
Commercial Service Date: 12/01/1977 (Unit 1)
07/30/1981 (Unit 2)

Joseph M. Farley Nuclear Plant
Units 1 and 2
5th Interval Inservice Testing Program
Version 2.0
Summary of Changes

General

- Replaced Summary of Changes Version 1.0, with Version 2.0
- Updated Cover Page, "Joseph M. Farley Nuclear Plant Fifth 10-Year Interval Inservice Testing Program", to add LDCR number to Version 1.0 description
- Corrected ending date for the current (5th) interval to agree with the Program Plan Introduction
- Updated Cover Page, "Joseph M. Farley Nuclear Plant Fifth 10-Year Interval Inservice Testing Program", to add Version 2.0 description
- Updated Active Page List pages to Version 2.0 for all applicable pages
- Updated Active Page List to Version 2.0
- Updated Section 10 "Unit 1 Valve Table", page 26, to reflect category changes to Charging Pump Discharge Check Valves Q1E21V0122A, Q1E21V0122B, and Q1E21V0122C.
- Changed Section 10 "Unit 1 Valve Table", page 26 to Version 2.0
- Updated Section 11 "Unit 2 Valve Table", page 26, to reflect category changes to Charging Pump Discharge Check Valves Q2E21V0122A, Q2E21V0122B, and Q2E21V0122C.
- Changed Section 11 "Unit 2 Valve Table, page 26 to Version 2.0

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1.0 IST PROGRAM INTRODUCTION

1.1 GENERAL

This document describes the Pump and Valve Inservice Testing (IST) Program for the Farley Nuclear Plant (FNP) Units 1 and 2. The IST Program is in accordance with the requirements of 10CFR50.55a. Provided below are important dates relative to the IST Program.

	FNP Unit 1	FNP Unit 2
1st 10-year Interval	12/01/1977 to 11/30/1987	07/30/1981 to 07/29/1991
2nd 10-year Interval	12/01/1987 to 11/30/1997	07/30/1991 to 11/30/1997
3rd 10-year Interval	12/01/1997 to 11/30/2007	12/01/1997 to 11/30/2007
4th 10-year Interval	12/01/2007 to 11/30/2017	12/01/2007 to 11/30/2017
5th 10-year Interval	12/01/2017 to 11/30/2027	12/01/2017 to 11/30/2027

In order to utilize the same Code edition for both units, a relief request was submitted to update FNP Unit 2 at the same time as Unit 1 for the 2nd 10-year interval. In a letter dated March 20, 1997, the Nuclear Regulatory Commission (NRC) approved an alternative to the requirement of 10CFR50.55a(f)(4)(ii) that changed the date of record by which the Unit 2 program is required to be updated, making it consistent with Unit 1. Therefore, the Code of record for IST beginning with the 4th 10- year interval is the same for both units.

According to 10 CFR 50.55a(f)(4)(ii), following completion of the first 10-year testing interval, the successive 10-year testing interval must comply with the requirements of the latest edition and addenda of the American Society of Mechanical Engineers (ASME) OM Code, incorporated by reference in paragraph (b) of the latest endorsed version of 10 CFR 50.55a, twelve months prior to the start of the 10-year inspection interval. The Edition of 10 CFR 50.55a in effect 12/01/2016 references the ASME OM Code 2004 Edition with Addenda through OMb-2006, as the applicable Code. The OM Code, or the Code, governing this document corresponds to the aforementioned Edition and Addenda.

If FNP Units 1 and 2 cannot complete a specific Code requirement, the permission to deviate from the Code must be granted by the NRC. Requests for Code deviations are submitted per the guidelines of 10 CFR 50.55a(f)(5).

This program document includes IST requirements for safety-related ASME Code Class 1, 2 and 3 pumps and valves. NRC NUREG-1482, Rev.2, was used, to the extent practical, for guidance in the development of this program.

This document includes inservice testing requirements for pumps and valves. Roles, responsibilities and implementation instructions for FNP Inservice Testing Program are found in NMP-ES-013 and associated instructions. Detailed information for each pump and valve are contained within the pump and valve basis documents, respectively. The requirements for inservice testing of dynamic restraints (snubbers) is included in a site-specific snubber program and NMP-ES-057 series of procedures and instructions.

1.2 EFFECTIVE DATE

The IST Program for the 5th 10-year interval is effective beginning December 1, 2017 and will be utilized through November 30, 2027.

1.3 SCOPE

10CFR50.55a(f)(4) and the OM Code, paragraph ISTA-1100, establish the scope of inservice testing to be Class 1, 2, and 3 pumps, valves, and pressure relief devices which are required in shutting down a reactor to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident. More specifically:

- Pumps with an emergency power source required to perform the above.
- Active or passive valves required to perform the above.
- Pressure relief devices which protect systems or portions of systems that are required to perform the above.

The license safe shutdown condition for FNP Units 1 and 2 is the hot shutdown condition. NRC communications agree that the scope of IST should be commensurate with the licensing basis. Although the scope of IST components is legally based on bringing the unit to the licensed safe shutdown condition, the implemented scope of IST is based on the cold shutdown condition.

For FNP, SNC considers the total scope of inservice testing to include testing of all safety related Class 1, 2, and 3 pumps and valves.

AUGMENTED SCOPE: Augmented components do not fall within the scope of the ASME OM Code as implemented by 10 CFR 50.55a (i.e. not ASME Class 1, 2, or 3), are not covered by the Regulatory Position of Regulatory Guide 1.26 (September 1974), and were not designed to facilitate performance of OM Code type pump testing. Therefore, they are only included in this program document to provide a readily accessible, controlled mechanism for testing. As discussed in Section 3.2 of this document, testing will be performed in a manner similar to that of the OM Code, and such testing should adequately detect degradation. On the pump tables, a component is identified as augmented by having the word in parenthesis below the description. On the valve tables, the component is identified as augmented under the column "Aug." and has a "N" or "Y": "N" = required to be in the IST Program; "Y" = not required to be in the IST Program

1.4 COMPONENT UPGRADING

Appendix 3A of the FNP Final Safety Analysis Report (FSAR) commits Southern Nuclear Operating Company (SNC) to meet the requirements of Regulatory Guide 1.26 (or Safety Guide 26), dated March 23, 1972. Appendix 3A also permits use of the classification system stated in the August 1970 draft of ANSI N18.2 as an alternative to Safety Guide 26. Several systems which perform a safety-related function, as defined above, are excluded from the criteria of either Safety Guide 26 or ANSI N18.2 as applied to the Farley Nuclear Plant.

Plant components have been reviewed to determine the appropriate classification for inservice testing. The aforementioned documents were used for guidance in determining component classifications.

Note that the classification of pumps and valves as ASME Class 1, 2, or 3 equivalent for this program does not imply that the components were designed in accordance with ASME requirements. Pump and valve design remains as stated in the FSAR.

1.5 SUBSEQUENT PROGRAM REVISIONS

It is anticipated that this document will be reviewed again near the end of the 10-year testing interval and compared to a later NRC approved version of the ASME Code applicable for IST. At that time, the program will be modified, if required, to comply to the extent practical with the latest NRC endorsed edition of the Code. Any Code deviations (e.g. alternatives, additional relief requests for impractical requirements) will be submitted in accordance with the applicable regulations.

1.6 RESPONSIBILITY

SNC bears the overall responsibility for the implementation of the inservice testing activities contained in this program per the ASME OM Code, Subsection ISTA-1500.

1.7 RECORDS

Records and documentation of information and test results, which provide the basis for evaluation and which facilitate comparison with results from previous and subsequent tests, will be maintained and available for the active life of the component or system in accordance with the ASME OM Code, Subsection ISTA-9000.

1.8 METHODS OF TESTING

The method of testing applicable to each pump and valve is listed adjacent to the component identification in the Pump and Valve Tables. The ASME OM Code does not stipulate any specific training/certification requirements for personnel involved in pump or valve testing. At FNP, all pump and valve testing is performed by operations, maintenance or engineering personnel who have been trained to perform specific testing tasks.

1.9 STANDARDS FOR TESTING EVALUATION

The acceptance criteria applicable for each pump and valve to be tested have been developed in accordance with the ASME OM Code requirements as modified by any applicable relief requests. Acceptance criteria are not provided in the IST Program document, but are provided in the Pump and Valve Inservice Testing Basis or applicable surveillance testing procedures which are available for review at the plant site.

2.0 ABBREVIATIONS

ABBREVIATION	DEFINITION
A	Active
A	Angle Valve
Accum	Accumulator
ACCW	Auxiliary Component Cooling Water
ACT	Active
Act.	Actuation
Add	Addition
Admis	Admission
AFW	Auxiliary Feedwater
AI	As Is
AJ	10CFR50 Appendix J
Alt	Alternate
AO	Air Operated
AP	Active or Passive
ARFD	As Required, Following Disassembly
ARV	Atmospheric Steam Relief Valve
ASME	American Society of Mechanical Engineers
AT	Actuator
Aug	Augmented
Aux	Auxiliary
B	Butterfly valve
BA	Boric Acid
BDTC	Bi-Directional Test Close
BDTO	Bi-Directional Test Open
BI	Biennial
BIT	Boron Injection Tank
Bldg	Building
BTRS	Boron Thermal Regeneration System
C	Close
Cat	Category
Cav	Cavity
CB	Control Building
CC	Code Classification
CCW	Component Cooling Water
Cent	Centrifugal
Chg	Charging
Chem	Chemical
Chlor	Chlorination
Chlr	Chiller
CIV	Containment Isolation Valve
CK	Check valve

ABBREVIATION	DEFINITION
CL	Cold Leg
Cond	Condensate
Coord	Coordinate
CPT	Comprehensive Pump Test
CSD	Cold Shutdown
CSD/RF	Cold Shutdown and Refueling
CSJ	Cold Shutdown Justification
CTB	Containment Building
CTMT	Containment
Ctrl	Control
CVCM(P)	Check Valve Conditioning Monitoring (Program / Plan)
CVCS	Chemical and Volume Control System
D	Diaphragm valve
DG	Diesel Generator
Demin	Demineralized
Disch	Discharge
Disp	Dispersant
Drn	Drain
EH	Electro-Hydraulic
EMERG	Emergency
ESF	Engineered Safety Feature
Ess	Essential
ET	Exercise Test
ETC	Exercise Test Close
ETO	Exercise Test Open
ETPO	Exercise Test Partial Open
ETSP	Relief Valve Test
Evap	Evaporator
Exh	Exhaust
Exp	Expansion
FCV	Flow Control Valve
FNP	Farley Nuclear Plant
FP	Fail Position
Freq	Frequency
FS	Fail Safe Test
FSAR	Final Safety Analysis Report
FSVC	Fail Safe Valve Close
FSVO	Fail Safe Valve Open
FW	Main Feedwater

ABBREVIATION	DEFINITION
GA	Gate valve
Gen	Generator
GFFD	Gross Failed Fuel Detector
GL	Globe valve
H_2	Hydrogen
HDR	Header
HHSI	High Head Safety Injection
HL	Hot Leg
HV	Hydraulic Valve
HVAC	Heating Ventilation and Air Conditioning
HX	Heat exchanger
ID	Identification
Inbrd	Inboard
Inj	Injection
INST	Instrument
IRC	Inside Reactor Containment
ISO	Isolation
IST	Inservice Testing
Jac	Jacket
LA	Category A Valve Test
LHSI	Low Head Safety Injection
LJ	Appendix J leak rate test only
LJ-C	Appendix J type C leak Test
LOCA	Loss of Coolant Accident
LOSP	Loss of Offsite Power
LT	Leakage Test
LTA	PIV Test
Ltdwn	Letdown
Lub	Lubrication
M	Manual
Max	Maximum
MDAFW	Motor Driven Auxiliary Feedwater
MFIV	Main Feedwater Isolation Valve
Min	Minimum
MO	Motor Operated
MOV	Motor Operated Valve
Mot	Motor
MS	Main Steam
MSIV	Main Steam Isolation Valve

ABBREVIATION	DEFINITION
N_2	Nitrogen
NA	Not Applicable
NP	Normal Position
NSCW	Nuclear Service Cooling Water
O	Open
O/C	Open and Close
Obrd	Outboard
OM	O&M - Operation and Maintenance
ORC	Outside Reactor Containment
P	Passive
Pan	Panel
PAS	Passive
PASS	Post-Accident Sampling System
PC	Project Class
PCS	Partial stroke test exercised Cold Shutdown
PDP	Positive Displacement Pump
Pen	Penetration
PIT	Position Indication Test
PID	Pipe and Instrumentation Diagram
PIV	Pressure Isolation Valve
PORV	Power Operated Relief Valve
PFR	Penetration Filtration Room
Proc	Processing
Prot	Protection
PRT	Pressurizer Relief Tank
PRZR	Pressurizer
PQ	Partial-stoke exercised Quarterly
Pur	Purification
Purif	Purification
Q	Flowrate
Q	Quarterly
RC	Reactor Coolant
RCDT	Reactor Coolant Drain Tank
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RD	Rupture Disk
Recirc	Recirculation
Reg	Regulating
Ret	Return
RF	Refueling

ABBREVIATION	DEFINITION
RHR	Residual Heat Removal
RMW	Reactor Makeup Water
RO	Refueling Outage
ROJ	Refueling Outage Justification
RPV	Reactor Pressure Vessel
RR	Relief Request
RV	Relief valve
RWST	Refueling Water Storage Tank
RX	Reactor
S	Self actuating
Sam	Sample
SC	Stop Check Valve
SED	System Evaluation Document
Ser	Service
SFP	Spent Fuel Pool
SFPCPS	Spent Fuel Pool Cooling and Purification System
SG	Steam Generator
SI	Safety Injection
SO	Solenoid
SP	Safety Position
SR	Safety and Relief Valve
STC	Stroke Time Close
STO	Stroke Time Open
Suc	Suction
Sup	Supply
SW	Service Water
SYS	System
T	Relief Valve Test Freq
TDAFW	Turbine Driven Auxiliary Feedwater
TC	Temperature Control
Test	Testable
TPNS	Total Plant Numbering System
Tran	Transfer
TW	3-way valve
Vac	Vacuum
VCT	Volume Control Tank
Vlv	Valve
VR	Vacuum Relief
XCONN	Cross Connection
18M	18 Month
2Y	2-Year

3.0 INSERVICE TESTING OF PUMPS

3.1 GENERAL

The IST Program was developed to comply with the requirements of 10 CFR 50.55a(f), dated January 23, 2012. This section of the IST program delineates the testing requirements for ASME Class 1, 2, and 3 pumps included for inservice testing (IST) at Southern Nuclear Operating Company's (SNC) Farley Nuclear Plant (FNP) Units 1 and 2. The Code of record required by 10 CFR 50.55a(b)(3) for 5th Interval IST is the ASME OM Code - 2004 Edition with Addenda trough OMb-2006. The supplemental guidance of NRC NUREG-1482, Rev. 2, has been applied, to the extent practical, in the development of IST of pumps. For pumps which are within the scope of IST, as stipulated in 10 CFR 50.55a, where specific Code requirements cannot be meet, relief has been requested from the specific Code requirements.

As required by OM Code, ISTB-1300, pumps within the scope of this program shall be categorized as either Group A or Group B pumps.

Group A pumps are defined as pumps that are operated continuously or routinely during normal operation, cold shutdown, or refueling operation.

Group B pumps are defined as pumps in standby systems that are not operated routinely except for testing.

Group A and Group B pump testing is required quarterly. In addition to the quarterly Group A or Group B pump tests, the OM Code imposed a biennial Comprehensive Pump Test and a Preservice Pump Test for pumps that are overhauled or replaced. The IST Program Pump Tables list the parameters measured during Group A, Group B, and Comprehensive Pump Testing.

Preservice Testing is equivalent to Comprehensive Pump Testing, except Preservice Testing requires the development of a five-point pump curve for centrifugal and vertical line shaft pumps in which flow and differential pressure is measured. Vibration measurements are only required to be taken at the reference value(s).

3.2. SCOPE

Safety-related ASME Code Class 1, 2 and 3 pumps, meeting the scope criteria of ASME OM Code ISTA-1100 and falling under the Regulatory Position of Regulatory Guide 1.26 or Safety Guide 26 (March 1972), are included within the scope of this program. Special scope features of the Farley IST Program are discussed below.

It was recognized that 10 CFR 50, Appendix A, General Design Criteria 1, and Appendix B, Criterion XI, intended that all pumps necessary for safe operation of the plant be tested to demonstrate that they will perform satisfactorily in service. The testing is to be performed to a level commensurate with the safety significance of the

pump. This testing is generally performed per the requirements of the plant Technical Specifications or other requirements. In cases where Code requirements are impractical for certain pumps, or an alternate testing method is considered an improvement over OM Code requirements, a relief request has been developed. Pump relief requests are located under a separate tab.

3.2.1 River Water Pumps

The service water pond comprises the ultimate heat sink at FNP. The river water pumps provide normal make-up to the service water pond, but the accident analyses indicate that make-up is not required for a period of at least 30-days post-accident. Therefore, the river water pumps do not meet the scope criteria of the OM Code, Subsection ISTA-1100, and are not required to be included in the IST Program.

3.2.2 Diesel Fuel Oil Transfer Pumps

Safety Guide 26 provides criteria for determining the safety classification of nuclear power plant components. Safety Guide 26 is applicable only to water, steam, and radioactive containing components. Therefore, the fuel oil transfer pumps are not within the safety classification scope of Safety Guide 26 and are thus not required to be included within the scope of the IST Program.

FNP has decided to include the diesel generator fuel oil transfer pumps in the IST Program and has designated them as "augmented". The diesel generator fuel oil transfer system was not designed to facilitate inservice testing of the transfer pumps. System design did not include any flow or pressure measuring instrumentation to allow establishment of reference values for test comparison. The pumps provided have a rated capacity of approximately 20 gpm whereas the design capacity requirement is less than 5 gpm. There is significant redundancy in the number of pumps provided to supply fuel to the emergency diesel generators and the possibility of not being able to meet their operating requirements is virtually non-existent.

The fuel oil transfer pumps are tested in conjunction with emergency diesel generator testing to satisfy Technical Specification requirements which provide a level of assurance that the pumps are capable of performing their intended function. The flow rate, differential pressure, and vibration amplitude of each pump is measured or determined every 18-months to evaluate operational readiness and to monitor for potential degradation. This once per operating cycle testing should provide adequate assurance that the emergency diesel generators are capable of being provided with sufficient fuel quantities to meet any accident requirements.

4.0 PUMP TEST NOTES

1. See section 1.3 of IST Program Introduction.

2. Pumps shared between Units 1 and 2 such as the Diesel Generator Fuel Oil Transfer Pumps are included in the FNP-1 Pump Test Tables.

3. Auxiliary Feedwater System Pumps:
   OM Code ISTB-3300(e)(2) allows the pump's reference flow rate to fall below the desired range of 80% - 120% of pump design flow. If at least 80% cannot be met, then the quarterly test shall operate at the next "highest practical flow rate." This allowance is used for the quarterly tests of the AFW pumps at plant Farley.

   The MDAFW pumps and the TDAFW pump have recirculation lines with a diameter of 4 inches and 6 inches, respectively. While performing the quarterly tests on these recirculation lines would achieve a flow rate of at least 80% of design flow, it is currently not practicable to test on the recirculation lines due to the ongoing history of severe vibration problems when the lines are in service (FNP CR 2010116960). The quarterly IST surveillance is executed on the pumps miniflow line (piping with a diameter of 2 inches for MDAFW and 4 inches for TDAFW). The highest practicable flow rates are the ones passed through miniflow.

4. Any change in the frequency or components being tested by this quarterly surveillance will require reevaluation of Farley CR 558904 in accordance with the surveillance Frequency Control Program (SFCP).

Quarterly Group A and Group B Pump Tests

P&ID/ TPNS	Code Description/Group	Test Coord	Test Class	Parameters	Frequency	RR/Remarks
Q1E11P001A Q1E11P001B	Residual Heat Removal (RHR) Group A	D175041 G-7; E-7	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4
Q1E13P001A Q1E13P001B	Containment Spray (CS) Group B	D175038-3 B-8; G-8	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	N/A	N/A
				N	N/A	NA
				ΔP	Q	Note 4
Q1E21P002A Q1E21P002B Q1E21P002C	Charging/ High Head Safety Injection (HHSI) Group A	D175039-6 F-5; G-5; H-5	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
		ΔP	Q	Note 4		

Quarterly Group A and Group B Pump Tests

P&ID/ TPNS	Code Description/Group	Test Coord	Test Class	Parameters	Frequency	RR/Remarks
Q1E21P005A Q1E21P005B	Boric Acid Transfer (BAT) Group A	D175039-3 G-6; H-6	3	P_d	N/A	N/A
				Q	Q	N/A, RR-PR-02
				V	Q	N/A
				N	NA	N/A
				ΔP	Q	N/A
Q1N23P001A Q1N23P001B	Motor Driven AFW Pump Auxiliary Feedwater System (AFW) Group A	D175007 B-5; E-5	3	P_d	N/A	N/A
				Q	Q	Notes 3 & 4, RR-PR-02
				V	Q	Note 4
				N	N/A	Note 4
				ΔP	Q	Note 4
Q1N23P002	Turbine Driven AFW Pump Auxiliary Feedwater System (AFW) Group B	D175007 H-5	3	P_d	N/A	N/A
				Q	Q	Note 3, RR-PR-02
				V	N/A	N/A
				N	Q	N/A
				ΔP	Q	N/A

Quarterly Group A and Group B Pump Tests

P&ID/ TPNS	Code Description/Group	Test Coord	Test Class	Parameters	Frequency	RR/Remarks
Q1P16P001A Q1P16P001B Q1P16P001C Q1P16P001D Q1P16P001E	Service Water Pump Group A	D170119-1 H-3; H-5; H-7; H-9; H-11	3	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4
Q1P17P001A Q1P17P001B Q1P17P001C	Component Cooling Water Group A	D175002-1 C-2; E-2; G-2	3	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4
QSY52P501A QSY52P501B QSY52P503A QSY52P503B QSY52P504A QSY52P504B Q1Y52P502A Q1Y52P502B	Diesel Generator Fuel Oil Transfer (Augmented) Group B	D170060 G-3; G-2; G-5; G-4; G-12; G-11; G-10; G-9	3	P_d	N/A	N/A
				Q	18M	Notes 1, 2
				V	18M	Notes 1, 2
				N	N/A	N/A
				ΔP	18M	N

Biennial Comprehensive Pump Tests

P&ID/ TPNS	Code Description/Group	Test Coord	Test Class	Parameters	Frequency	RR/Remarks
Q1E11P001A Q1E11P001B	Residual Heat Removal (RHR) Group A	D175041 G-7; E-7	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q1E13P001A Q1E13P001B	Containment Spray (CS) Group B	D175038-3 B-8; G-8	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q1E21P002A Q1E21P002B Q1E21P002C	Charging Pump (HHSI) Group A	D175039-6 F-5; G-5; H-5;	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A

Biennial Comprehensive Pump Tests

P&ID/ TPNS	Code Description/Group	Test Coord	Test Class	Parameters	Frequency	RR/Remarks
Q1E21P005A Q1E21P005B	Boric Acid Transfer Pump Group A	D175039-3 G-6; H-6	3	P_d	N/A	N/A
				Q	Refueling	RR-PR-02
				V	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q1N23P001A Q1N23P001B	Motor Driven AFW Pump Group A	D175007 B-5; E-5; H-5	3	P_d	N/A	N/A
				Q	Refueling	RR-PR-02
				V	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q1N23P002	Turbine Driven AFW Pump Group B	D175007 H-5	3	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	Biennially	N/A
				ΔP	Biennially	N/A

FNP-2 PUMP TESTING TABLES

Quarterly Group A and Group B Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q1P16P001A Q1P16P001B Q1P16P001C Q1P16P001D Q1P16P001E	Service Water Pump Group A	D170119-1 H-3; H-5; H-7; H-9; H-11	3	P_d	N/A	RR-PR-03
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q1P17P001A Q1P17P001B Q1P17P001C	Component Cooling Water Group A	D175002-1 C-2; E-2; G-2	3	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q2E11P001A Q2E11P001B	Residual Heat Removal (RHR) Group A	D205041 G-7; E-7	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4

Quarterly Group A and Group B Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2E13P001A Q2E13P001B	Containment Spray (CS) Group B	D205038-3 B-8; G-8	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	N/A	N/A
				N	N/A	NA
				ΔP	Q	Note 4
Q2E21P002A Q2E21P002B Q2E21P002C	Charging/ High Head Safety Injection (HHSI) Group A	D205039-6 F-5; G-5; H-5	2	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
		ΔP	Q	Note 4		
Q2E21P005A Q2E21P005B	Boric Acid Transfer (BAT) Group A	D205039-3 G-6; H-6	3	P_d	N/A	N/A
				Q	Q	RR-PR-02
				V	Q	N/A
				N	NA	N/A
				ΔP	Q	N/A

Quarterly Group A and Group B Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2N23P001A Q2N23P001B	Motor Driven AFW Pump Auxiliary Feedwater System (AFW) Group A	D205007 B-5; E-5	3	P_d	N/A	N/A
				Q	Q	Notes 3 & 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4
Q2N23P002	Turbine Driven AFW Pump Auxiliary Feedwater System (AFW) Group B	D205007 H-5	3	P_d	N/A	N/A
				Q	Q	Note 3, RR-PR-02
				V	N/A	N/A
				N	Q	N/A
				ΔP	Q	N/A
Q2P16P001A Q2P16P001B Q2P16P001C Q2P16P001D Q2P16P001E	Service Water Pump Group A	D200013-2 H-3; H-5; H-7; H-9; H-11	3	P_d	N/A	RR-PR-03
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4

Quarterly Group A and Group B Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2P17P001A Q2P17P001B Q2P17P001C	Component Cooling Water Group A	D205002-1 C-2; E-2; G-2	3	P_d	N/A	N/A
				Q	Q	Note 4, RR-PR-02
				V	Q	Note 4
				N	N/A	N/A
				ΔP	Q	Note 4
Q2Y52P505A Q2Y52P503B	Diesel Generator Fuel Oil Transfer (Augmented)	D170060 G-3; G-2; G-5; G-4; G-12; G- 11;	3	P_d	N/A	N/A
				Q	18 months	Note 1
	Group B	G-10; G-9		V	18 months	Note 1
				N	N/A	N/A
				ΔP	18 months	Note 1

Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2E11P001A Q2E11P001B	Residual Heat Removal (RHR) Group A	D205041 G-7; E-7	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q2E13P001A Q2E13P001B	Containment Spray (CS) Group B	D205038-3 B-8; G-8	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q2E21P002A Q2E21P002B Q2E21P002C	Charging Pump (HHSI) Group A	D205039-6 F-5; G-5; H-5;	2	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A

Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2E21P005A Q2E21P005B	Boric Acid Transfer Pump	D205039-3 G-6; H-6	3	P_d	N/A	N/A
	Group A			Q	Refueling	RR-PR-02
				V	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q2N23P001A Q2N23P001B	Motor Driven AFW Pump	D205007 B-5; E-5; H-5	3	P_d	N/A	N/A
	Group A			Q	Refueling	RR-PR-02
				V	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q2N23P002	Turbine Driven AFW Pump	D205007 H-5	3	P_d	N/A	N/A
	Group B			Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	Biennially	N/A
				ΔP	Biennially	N/A

Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ Coord	Code Class	Test Parameters	Test Frequency	RR/Remarks
Q2P16P001A Q2P16P001B Q2P16P001C Q2P16P001D Q2P16P001E	Service Water Pump Group A	D200013-2 H-3; H-5; H-7; H-9; H-11	3	P_d	N/A	RR-PR-03
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A
Q2P17P001A Q2P17P001B Q2P17P001C	Component Cooling Water Group A	D205002-1 C-2; E-2; G-2	3	P_d	N/A	N/A
				Q	Biennially	RR-PR-02
				V	Biennially	N/A
				N	N/A	N/A
				ΔP	Biennially	N/A

7.0 PUMP RELIEF REQUEST LOG

RR-PR-02 – Establish test flow reference ranges per Code Case OMN-21		
Pump Groups (Units 1 & 2)	Description	Status
Q1/2E11P001A Q1/2E11P001B	Residual Heat Removal (RHR)	Approved by SER dated 5/16/2017 ML17123A262
Q1/2E13P001A Q1/2E13P001B	Containment Spray (CS)	
Q1/2E21P002A Q1/2E21P002B Q1/2E21P002C	Charging/High Head Safety Injection (HHSI)	
Q1/2E21P005A Q1/2E21P005B	Boric Acid Transfer (BAT)	
Q1/2N23P001A Q1/2N23P001B	Motor Driven AFW	
Q1/2N23P002	Turbine Driven AFW	
Q1/2P16P001A Q1/2P16P001B Q1/2P16P001C Q1/2P16P001D Q1/2P16P001E	Service Water	
Q1/2P17P001A Q1/2P17P001B Q1/2P17P001C	Component Cooling Water	

RR-PR-03 – Service Water Pumps and Transfer Pumps Pressure Accuracy		
Pumps (Units 1 & 2)	Description	Status
Q1/2P16P001A-A Q1/2P16P001B-A Q1/2P16P001C-AB Q1/2P16P001D-B Q1/2P16P001F-B	Service Water Pumps	Approved by SER dated 4/12/2017 ML17093A692

8.0 INSERVICE TESTING OF VALVES

8.1. GENERAL

This section of the IST Program was developed to comply with the testing provisions of 10 CFR 50.55a(f), dated October 1, 2004, which delineate the testing requirements for ASME Class 1, 2, and 3 valves. The Code of record required by 10 CFR 50.55a (b)(3) for the 5th Interval valve IST is the ASME OM Code-2004 Edition with Addenda through OMb-2006 (hereafter referred to as the OM Code). The supplemental guidance of NRC NUREG-1482, Revision 2, has been applied to the extent practicable.

Valves in the program are listed by TPNS Number in tables for Units 1 and 2, respectively, and will be tested in accordance with the Code unless otherwise specified in this program.

8.2. SCOPE

Safety-related ASME Class 1, 2, and 3 valves covered by the Regulatory Position of Safety Guide 26 (March 1972) are included within the scope of this program and are tested using the provisions of the OM Code. Containment isolation valves located in non-safety related systems are considered safety-related for containment purposes, and are, therefore, tested under the provisions of the OM Code and 10 CFR 50, Appendix J, as applicable. In cases where specific Code requirements cannot be met or an alternative testing method is considered an improvement over OM Code requirements, relief has been requested from these requirements. Valve relief requests are located under a separate tab.

It is recognized that 10 CFR 50 Appendix A, GDC-1, and Appendix B, Criterion XI intend that all valves necessary for safe operation of the plant be tested to demonstrate that they will perform satisfactorily in service. This testing is required to be performed at a level commensurate with the safety function of the valve, and is generally performed per the requirements of the plant Technical Specifications or other regulatory requirements.

River Water System

The service water pond comprises the ultimate heat sink at FNP. The river water pumps provide normal make-up to the service water pond, but the accident analyses indicate that make-up is not required for a period of at least 30-days post-accident. Therefore, the river water system valves do not meet the scope criteria of the OM Code, Subsection ISTA-1100, and are not required to be included in the IST Program.

8.3. LEAKAGE RATE TESTING

8.3.1 PRESSURE ISOLATION VALVES (PIV)

Pressure isolation valves (PIVs) are defined as two normally closed valves in series that isolate the Reactor Coolant System (RCS) from the attached low pressure system. Event V pressure isolation valves (WASH 1400) are defined in Section 4.4.4 of NUREG 1482, Revision 2, as "two check valves in series at a low pressure/RCS interface whose failure may result in a LOCA that bypasses containment."

Pressure isolation valves are not listed in the plant Technical Specifications. However, they are listed in the FNP Technical Requirements Manual (TRM) Table 13.4.5-1. Each pressure isolation valve is designated "PIV" in the IST Bases Document. Valves which function as both pressure and containment isolation valves are designated as PIV/CIV in the IST Bases document and tested per ISTC-3630.

Instrumentation to monitor the leakage upstream of each pressure isolation valve during power operation was not a design requirement at FNP. Also, while it is practical to test several of the valves individually, the ability to isolate and test each valve separately was not a design consideration. Subsequently, all valves cannot be practically tested on an individual basis. A leakage test will be performed at least every 2 years per ISTC-3630(a), or per the surveillance requirements specified in plant Technical Specification SR 3.4.14.1 as follows:

a. A valve that serves as a pressure isolation valve is tested at operating differential pressure or at a reduced pressure as allowed by ISTC-3630(b)(4), using water as a test medium. The leakage observed during a reduced pressure test is then adjusted to a "function maximum pressure differential value" as required by ISTC-3630(b)(4). The allowable leakage at operating differential pressure for RCS/low pressure piping interface valves is 0.5 gpm (1892 cc/min) per inch of valve size up to a maximum of 5 gpm.

8.3.2 CONTAINMENT ISOLATION VALVES (CIV)

All containment isolation valves that receive a Type C, Appendix J test are included in this Program and are identified as "CIV" in the IST Bases document. Any changes in the Appendix J, Type C testing scope will be reflected in this document with appropriate changes to the test tables. CIVs that do not require Type C leakage testing have not been included in the Program Tables as Category A valves. CIVs that are Type A tested only are included in the applicable Integrated Leak Rate Test procedure and CIVs that do not require any leakage testing (e.g., water sealed) are listed as Category B or C valves.

SNC conforms to the requirements of ISTC-3630(e) to the extent practical by assigning a specific leakage limit to each valve or penetration assembly. Limits are based on the type and size of each valve, the number of valves in the test boundary, and historical leakage data.
As a rule, test configurations have the least number of boundary valves practical to perform the Type C test; however, the piping configuration at FNP generally requires the pressurization of a combination of CIVs and block valves simultaneously. In these cases, the leakage limit is applied to each penetration test configuration. During the testing of the penetration, if the measured leakage exceeds the limit for the penetration, causes are investigated and repairs made to specific valves as necessary. The intent of the OM Code to detect degradation (and repair if necessary) of each valve due to service related conditions is therefore met.

8.3.3 LEAK TEST TYPE AND FREQUENCY DESIGNATION

- All valves that require an Appendix J Type C Leakage Test are designated by "LJ-C" in the "Test" column of the Valve Test Tables. (except when the valve is also PIV leakage tested)
- All valves that require a PIV Leakage Test are designated by "LTA" in the "Test" column of the Valve Tables.
- "LJ" in the "Frequency" column indicates a leakage test frequency in accordance with 10 CFR 50 Appendix J, Option B.
- "LA" in the "Frequency" column indicates a leakage test is required at least every 2-year per ISTC-3630(a) or per TS 3.4.14.1.

8.4 FAIL-SAFE VALVES

If normal exercising of a power operated valve also tests the Fail-Safe function per ISTC-3560, then fail-safe testing is not listed in the Valve Tables (i.e., FSTC or FSTO are not listed.) If normal exercising does not test the Fail-Safe function, then fail-safe testing is listed in the tables along with information related to how ISTC-3560 is satisfied.

8.5 PASSIVE POWER OPERATED VALVES

A passive power operated valve does not perform a mechanical motion during the course of accomplishing a system safety function. These valves are identified as such in the "Active/Passive" column of the Valve Test Tables. Per Table ISTC-3500-1, passive Category B valves do not require any exercising testing. Verification of the actual valve position is indicated by remote position indication lights every two years and is the only testing required.

8.6 CHECK VALVES

It is SNC's position to extend the test frequency of any non-safety position tests to refueling outage without a Refueling Outage Justification (ROJ) or without a Cold Shutdown Justification (CSJ).

9.0 VALVE NOTES

1. This valve is not required to be reopened once it is closed; therefore, stroke timing in the open direction is not required.

2. Check valve open (forward) and/or closed (reverse) testing is performed per the Check Valve Condition Monitoring Program, housed in FNP-0-M-115.

3. Any change in the frequency or components being tested by this surveillance will require reevaluation of Farley CR 558904 in accordance with the Surveillance Frequency Control Program (SFCP).

4. Average stroke time is more conservative than TS 3.6-1 which is less than or equal to 10 seconds.

FARLEY UNIT 1

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1B13SV2213A (HV001)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												PIT	2Y		FNP-1-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q1B13SV2213B (HV003)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												PIT	2Y		FNP-1-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q1B13SV2214A (HV002)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												PIT	2Y		FNP-1-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q1B13SV2214B (HV004)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-1-STP-45.2	
												PIT	2Y		FNP-1-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q1B13V0027A (MOV8000A)	1	N	B	ACTIVE	3	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
PRESSURIZER PORV BLOCK VALVE																

FARLEY UNIT 1

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1B13V0027B (MOV8000B)	1	N	B	ACTIVE	3	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
PRESSURIZER PORV BLOCK VALVE																
Q1B13V0031A	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q1B13V0031B	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q1B13V0031C	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q1B13V0037 (HV8047)	2	N	A	ACTIVE	1	D	AO		O	C	C	LJ-C	LJ		FNP-1-STP-627	STC See Note 3
												STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
PRT N2 SUPPLY ISO VALVE (PEN 64A)																
Q1B13V0038 (V8046)	2	N	AC	ACTIVE	3	CK	S		C	C	NA	BDTO	CVCM		FNP-1-STP-627	Sec. 9, Note 2
												LJ-C	CVCM		FNP-1-STP-627	
RMW TO PRT ISO CHECK VALVE (PEN 30)																

FARLEY UNIT 1

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1B13V0039 **(HV8033)**	2	N	A	ACTIVE	1	D	AO		O	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												LJ-C	LJ		FNP-1-STP-627	
												PIT	2Y		FNP-1-STP-47.0	
PRT N2 SUPPLY (PEN 64A)																
Q1B13V0040 **(HV8028)**	2	N	A	ACTIVE	3	D	AO		C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												LJ-C	LJ		FNP-1-STP-627	
												PIT	2Y		FNP-1-STP-47.0	
RMW TO PRT ISO VALVE (PEN 30)																
Q1B13V0053 **(PCV445A)**	1	N	B	ACTIVE	3	GL	AO	(D-2)	C	O/C	C	STC	RF		FNP-1-STP-45.11	
												STO	RF		FNP-1-STP-45.11	
												PIT	2Y		FNP-1-STP-45.11	
PRESSURIZER PORV																
Q1B13V0054 **(V8092)**	2	N	AC	ACTIVE	2	CK	S		C	O/C	NA	LJ-C	CVCM		FNP-1-STP-627	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.14	
CVCS CHARGING PUMP RELIEF VALVE DISCHARGE TO PRT (PEN 59)																
Q1B13V0061 **(PCV444B)**	1	N	B	ACTIVE	3	GL	AO	(E-2)	C	O/C	C	STC	RF		FNP-1-STP-45.11	
												STO	RF		FNP-1-STP-45.11	
												PIT	2Y		FNP-1-STP-45.11	
PRESSURIZER PORV																
Q1B13V0110	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.20	
REACTOR MAKEUP WATER SYSTEM (PEN 30) RELIEF VALVE																

FARLEY UNIT 1

C22 /N21 - Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1C22FCV478	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q1C22FCV479	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q1C22FCV488	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q1C22FCV489	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q1C22FCV498	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q1C22FCV499	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-1-STP-46.0	
												PIT	2Y		FNP-1-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q1N21V0001A (MOV3232A)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-1-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-1-STP-45.10	
												PIT	2Y		FNP-1-STP-45.10	
MAIN FEEDWATER SUPPLY																

FARLEY UNIT 1

C22 /N21 - Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1N21V0001B (MOV3232B)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-1-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-1-STP-45.10	
												PIT	2Y		FNP-1-STP-45.10	
MAIN FEEDWATER SUPPLY																
Q1N21V0001C (MOV3232C)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-1-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-1-STP-45.10	
												PIT	2Y		FNP-1-STP-45.10	
MAIN FEEDWATER SUPPLY																

FARLEY UNIT 1
E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E11V0001A (MOV8701A)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	STC see note 3
												STC	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												PIT	2Y		FNP-1-STP-45.5	
												LTA	LA		FNP-1-STP-158	
1A RHR PUMP SUCTION FROM RCS (HL) (PEN 16)																
Q1E11V0001B (MOV8702A)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	STC see note 3
												STC	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												PIT	2Y		FNP-1-STP-45.5	
												LTA	LA		FNP-1-STP-158	
1B RHR PUMP SUCTION FROM RCS (HL) (PEN 18)																
Q1E11V0009A (MOV8706A)	2	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	Q/CSD	CSJ-V - 04	FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
CHG PUMP SUCTION FROM RHR HX A																
Q1E11V0009B (MOV8706B)	2	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	Q/CSD	CSJ-V - 04	FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
CHG PUMP SUCTION FROM RHR HX B																
Q1E11V0015A (V8708A)	2	N	C	ACTIVE	3X4	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.0	
RHR PUMP SUCTION RELIEF																
Q1E11V0015B (V8708B)	2	N	C	ACTIVE	3X4	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.0	
RHR PUMP SUCTION RELIEF																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0016A (MOV8701B)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												STC	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												PIT	2Y		FNP-1-STP-45.5	
												LTA	LA		FNP-1-STP-158	
1A RHR PUMP SUCTION FROM RCS LOOPS																
Q1E11V0016B (MOV8702B)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												STC	CSD/RF	CSJ-V - 02	FNP-1-STP-45.5	
												PIT	2Y		FNP-1-STP-45.5	
												LTA	LA		FNP-1-STP-158	
1B RHR PUMP SUCTION																
Q1E11V0021A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
RHR PUMP DISCHARGE TO SI(CL)																
Q1E11V0021B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
RHR PUMP DISCHARGE TO SI(CL)																
Q1E11V0021C	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
RHR PUMP DISCHARGE TO SI(CL)																

FARLEY UNIT 1
E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0023A **(MOV8888B)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	
												STO	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
RHR/LHSI DISCHARGE TO RCS(CL)																
Q1E11V0023B **(MOV8888A)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	
												STO	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
RHR/LHSI DISCHARGE TO RCS(CL)																
Q1E11V0024A **(MOV8887A)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	
												STO	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
RHR/LHSI TO RCS XCONN																
Q1E11V0024B **(MOV8887B)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	
												STO	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
RHR/LHSI TO RCS XCONN																
Q1E11V0025A **(MOV8811A)**	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-11.6	
												STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1A RHR PUMP SUCTION FROM CTMT SUMP (PEN 11)																
Q1E11V0025B **(MOV8811B)**	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-11.6	
												STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1B RHR PUMP SUCTION FROM CTMT SUMP (PEN 10)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0026A (MOV8812A)	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-11.6	
												STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1A RHR PUMP SUCTION FROM CTMT SUMP (PEN 11)																
Q1E11V0026B (MOV8812B)	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-11.6	
												STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1B RHR PUMP SUCTION FROM CTMT SUMP (PEN 10)																
Q1E11V0027A (MOV8809A)	2	N	B	ACTIVE	14	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-11.6	
1A RHR PUMP SUCTION FROM RWST																
Q1E11V0027B (MOV8809B)	2	N	B	ACTIVE	14	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-11.6	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-11.6	
1B RHR PUMP SUCTION FROM RWST																
Q1E11V0028	2	N	C	ACTIVE	14	CK	S		C	O/C	NA	ETC	CVCM	ROJ-V - 06	FNP-1-STP-11.17	
												ETO	Q/CVCM		FNP-1-STP-11.1 or STP-11.2	
RHR PUMP SUCTION FROM RWST																
Q1E11V0032A (HCV603A)	2	N	B	PASSIVE	10	B	AO		O	O	O	PIT	2Y		FNP-1-STP-11.6	
RHR HEAT EXCHANGER DISCHARGE VALVES																
Q1E11V0032B (HCV603B)	2	N	B	PASSIVE	10	B	AO		O	O	O	PIT	2Y		FNP-1-STP-11.6	
RHR HEAT EXCHANGER DISCHARGE VALVES																

FARLEY UNIT 1
E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0033A **(FCV605A)**	2	N	B	PASSIVE	8	B	AO		C	C	C	PIT	2Y		FNP-1-STP-11.6	
RHR HEAT EXCHANGER BYPASS FLOW CONTROL VALVES																
Q1E11V0033B **(FCV605B)**	2	N	B	PASSIVE	8	B	AO		C	C	C	PIT	2Y		FNP-1-STP-11.6	
RHR HEAT EXCHANGER BYPASS FLOW CONTROL VALVES																
Q1E11V0037A **(FCV602A)**	2	N	B	ACTIVE	2	GL	MO		O	C	AI	STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1A RHR PUMP MINIFLOW																
Q1E11V0037B **(FCV602B)**	2	N	B	ACTIVE	2	GL	MO		O	C	AI	STC	Q		FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
1B RHR PUMP MINIFLOW																
Q1E11V0038A	2	N	C	ACTIVE	10	CK	S		C	O/C	NA	ETO	Q		FNP-1-STP-11.1	
												ETC	Q		FNP-1-STP-11.2	
1A RHR DISCHARGE TO RCS																
Q1E11V0038B	2	N	C	ACTIVE	10	CK	S		C	O/C	NA	ETC	Q		FNP-1-STP-11.1	
												ETO	Q		FNP-1-STP-11.2	
1B RHR DISCHARGE TO RCS																
Q1E11V0039A	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.1	
1B RHR HX DISCHARGE RELIEF (PEN 59)																
Q1E11V0039B	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.1	
1A RHR HX DISCHARGE RELIEF (PEN 59)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0040	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.1	
RHR HX DISCHARGE RELIEF (PEN 59)																
Q1E11V0042A	2	N	AC	ACTIVE	10	CK	S		C	O/C	NA	ETC	RF	ROJ-V - 03	FNP-1-STP-158	
												LTA	LA		FNP-1-STP-158	
												ETO	CSD/RF	ROJ-V - 03	FNP-1-STP-11.4	
RHR PUMP DISC TO SIS INJECTION CL																
Q1E11V0042B	2	N	AC	ACTIVE	10	CK	S		C	O/C	NA	ETC	2Y	ROJ-V - 03	FNP-1-STP-158	
												LTA	LA		FNP-1-STP-158	
												ETO	CSD/RF	ROJ-V - 03	FNP-1-STP-11.3	
RHR PUMP DISC TO SIS INJECTION CL																
Q1E11V0044 (MOV8889)	2	N	B	ACTIVE	10	GA	MO		C	O/C	AI	STO	Q/CSD/RF	CSJ-V - 03	FNP-1-STP-11.6	
												STC	Q/CSD/RF	CSJ-V - 03	FNP-1-STP-11.6	
												PIT	2Y		FNP-1-STP-11.6	
RHR HX DISCHARGE TO RCS(HL)																
Q1E11V0051A (V8998A)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-168	
RCS LOOP LHSI CL																
Q1E11V0051B (V8998B)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-168	
RCS LOOP LHSI CL																

FARLEY UNIT 1

E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E11V0051C (V8998C)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-168	
RCS LOOP LHSI CL																

FARLEY UNIT 1

E12 - Reactor Cavity Cooling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E12V0001A (HV3999A)	Aug	Y	B	ACTIVE	36	B	AO		O	C	C	STC	CSD/RF		FNP-1-STP-45.11	STC see Note 3
												PIT	2Y		FNP-1-STP-45.11	
1A RX CAVITY COOLING SYSTEM																
Q1E12V0001B (HV3999B)	Aug	Y	B	ACTIVE	36	B	AO		O	C	C	STC	CSD/RF		FNP-1-STP-45.11	STC see Note 3
												PIT	2Y		FNP-1-STP-45.11	
1B RX CAVITY COOLING SYSTEM																

FARLEY UNIT 1

E13 - Containment Spray

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E13V0002A (V8822A)	2	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-16.13, FNP-1-STP-16.10	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-640.3, FNP-1-STP-16.11	
1A CTMT SPRAY PUMP DISCHARGE																
Q1E13V0002B (V8822B)	2	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-16.13, FNP-1-STP-16.11	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-640.3, FNP-1-STP-16.11	
1B CTMT SPRAY PUMP DISCHARGE																
Q1E13V0003A (MOV8826A)	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1A SUCTION FROM CTMT SUMP (PEN 94)																
Q1E13V0003B (MOV8826B)	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1B SUCTION FROM CTMT SUMP (PEN 93)																
Q1E13V0004A (MOV8827A)	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1A SUCTION FROM CTMT SUMP (PEN 94)																
Q1E13V0004B (MOV8827B)	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1B SUCTION FROM CTMT SUMP (PEN 93)																

FARLEY UNIT 1

E13 - Containment Spray

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E13V0005A (MOV8820A)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1A DISCHARGE																
Q1E13V0005B (MOV8820B)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	Q		FNP-1-STP-16.7	
												STC	Q		FNP-1-STP-16.7	
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1B DISCHARGE																
Q1E13V0012A (MOV8817A)	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-16.7	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1A SUCTION FROM RWST																
Q1E13V0012B (MOV8817B)	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-16.7	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-16.7	
CTMT SPRAY PUMP 1B SUCTION FROM RWST																
Q1E13V0014 (V8816)	2	N	A/C	ACTIVE	12	CK	S	(E-10)	C	O/C	N/A	ETO	CVCM		FNP-1-STP-16.10, FNP-1-STP-16.11, FNP-1-STP-16.13	Sec 9, Note 2
												ETC	CVCM		FNP-1-STP-169 or FNP-2-STP-640.1	
CTMT SPRAY PUMP SUCTION FROM RWST																

FARLEY UNIT 1

E14 - Containment Isolation

Valve ID / Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position: Normal	Position: Safety	Position: Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E14HV3657	2	N	A	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE FROM R11/R12 (PEN 55)																
Q1E14HV3658	2	N	A	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE TO R11/R12 (PEN 54)																
Q1E14V0001	2	N	AC	ACTIVE	1	CK	S		C	O/C	NA	LJ-C	CVCM		FNP-1-STP-627	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-742	
CTMT AIR SAMPLE (PEN 55)																
Q1E14V0002 (MOV3660)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE TO R11/12 (PEN 54)																
Q1E14V0003 (MOV3318A)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT DIFFERENTIAL PRESSURE INSTRUMENT ISOLATION (PEN 70)																
Q1E14V0004 (MOV3318B)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT DIFFERENTIAL PRESSURE INSTRUMENT ISOLATION (PEN 70)																

FARLEY UNIT 1

E15 - Penetration Room Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E15CKDMP002A	Aug	Y	C	ACTIVE	14	CK	S		C	O/C	C	ETC	Q		FNP-1-STP-20.0	
												ETO	Q		FNP-1-STP-20.0	
PRF RECIRC FAN 1A CHECK DAMPER																
Q1E15CKDMP002B	Aug	Y	C	ACTIVE	14	CK	S		C	O/C	C	ETC	Q		FNP-1-STP-20.0	
												ETO	Q		FNP-1-STP-20.0	
PRF RECIRC FAN 1B CHECK DAMPER																
Q1E15CKDMP003A	Aug	Y	C	ACTIVE	12	CK	S		C	O/C	C	ETC	Q		FNP-1-STP-20.0	
												ETO	Q		FNP-1-STP-20.0	
PRF EXHAUST FAN 1A CHECK DAMPER																
Q1E15CKDMP003B	Aug	Y	C	ACTIVE	12	CK	S		C	O/C	C	ETC	Q		FNP-1-STP-20.0	
												ETO	Q		FNP-1-STP-20.0	
PRF EXHAUST FAN 1B CHECK DAMPER																
Q1E15V0001A (MOV3361B)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1B PRF RECIRC FAN DAMPER																
Q1E15V0001B (MOV3361A)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1A PRF RECIRC FAN DAMPER																
Q1E15V0001C (MOV3362B)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1B PRF SUCTION DAMPER																
Q1E15V0001D (MOV3362A)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1A PRF SUCTION DAMPER																

FARLEY UNIT 1

E15 - Penetration Room Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E15V0002A (HV3356A)	Aug	Y	B	ACTIVE	14	B	AO		C	O	O	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1A PRF RECIRC FAN EXHAUST DAMPER																
Q1E15V0002B (HV3356B)	Aug	Y	B	ACTIVE	14	B	AO		C	O	O	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1B PRF RECIRC FAN EXHAUST DAMPER																
Q1E15V0003A (HV3357A)	Aug	Y	B	ACTIVE	12	B	AO		C	O	O	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1A PRF EXHAUST FAN DISCH DAMPER																
Q1E15V0003B (HV3357B)	Aug	Y	B	ACTIVE	12	B	AO		C	O	O	STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
1B PRF EXHAUST FAN DISCH DAMPER																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0016A (MOV8803A)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STC	RF	ROJ-V - 14	FNP-1-STP-45.4	STC, STO-Note 3
												STO	RF	ROJ-V - 14	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
HHSI TO RCS (CL) ISO																
Q1E21V0016B (MOV8803B)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STC	RF	ROJ-V - 14	FNP-1-STP-45.4	STC, STO-Note 3
												STO	RF	ROJ-V - 14	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
HHSI TO RCS (CL) ISO																
Q1E21V0026	2	N	A/C	ACTIVE	8	CK	S	(E-12)	C	O/C	NA	ETC	CVCM	ROJ-V - 10	FNP-1-STP-4.10	
												ETO	CVCM	ROJ-V - 10	FNP-1-STP-40.7, FNP-1-STP-4.11	
RWST TO CHG PUMP SUCT																
Q1E21V0032A	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q1E21V0032B	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0032C	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9. Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q1E21V0037A	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q1E21V0037B	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q1E21V0037C	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-170 or STP-644.7	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-32.1	
												LTA	LA		FNP-1-STP-32.1	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q1E21V0049 (HV8871)	2	N	A	ACTIVE	3/4	GL	AO		C	C	C	STC	Q		FNP-1-STP-10.3	STC see Note 3
												PIT	2Y		FNP-1-STP-45.0	
												LJ-C	LJ		FNP-1-STP-627	
SIS ACCUMULATOR TEST TO RWST (PEN 29)																
Q1E21V0050 (HV8961)	2	N	A	ACTIVE	3/4	GL	AO		C	C	C	STC	Q		FNP-1-STP-10.3	STC see Note 3
												PIT	2Y		FNP-1-STP-10.3	
												LJ-C	LJ		FNP-1-STP-627	
SIS ACCUMULATOR TEST TO RWST (PEN 29)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0052	2	N	AC	ACTIVE	1	CK	S		C	C	N/A	BDTO	CVCM		FNP-1-SOP-8.0	Sec. 9. Note 2
												LJ-C	CVCM		FNP-1-STP-627	
SIS ACCUMULATOR FILL (PEN 49)																
Q1E21V0058	2	N	AC	ACTIVE	1	CK	S		C	C	NA	BDTO	CVCM		FNP-1-SOP-8.0	Sec. 9, Note 2
												LJ-C	CVCM		FNP-1-STP-627	
NITROGEN SUPPLY TO ACCUMULATOR TANKS (PEN 63)																
Q1E21V0059 (HV8880)	2	N	A	ACTIVE	1	GL	AO		C	C	C	STC	Q		FNP-1-STP-10.3	STC see Note 3
												PIT	2Y		FNP-1-STP-10.3	
												LJ-C	LJ		FNP-1-STP-627	
NITROGEN SUPPLY TO ACCUMULATOR TANKS (PEN 63)																
Q1E21V0062A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																
Q1E21V0062B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																
Q1E21V0062C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E21V0063 (MOV8885)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STO	RF	ROJ-V - 14	FNP-1-STP-45.12	
												STC	RF	ROJ-V - 14	FNP-1-STP-45.12	
												PIT	2Y		FNP-1-STP-45.12	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q1E21V0066A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q1E21V0066B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q1E21V0066C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q1E21V0068 (MOV8886)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STO	RF	ROJ-V - 14	FNP-1-STP-45.4	
												STC	RF	ROJ-V - 14	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
CHG (HHSI) PUMP DISCH TO RCS(HL)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0072 (MOV8884)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STO	RF	ROJ-V - 14	FNP-1-STP-45.12	
												STC	RF	ROJ-V - 14	FNP-1-STP-45.12	
												PIT	2Y		FNP-1-STP-45.12	
CHG (HHSI) PUMP DISCH TO RCS(HL)																
Q1E21V0076A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
WATER FROM RESIDUAL HX TO SI TO RCS LOOP 1																
Q1E21V0076B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
WATER FROM RESIDUAL HX TO SI TO RCS LOOP 2																
Q1E21V0077A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
HHSI/LHSI AND RHR TO RCS HL LOOP 1																
Q1E21V0077B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-168	
HHSI/LHSI AND RHR TO RCS HL LOOP 2																
Q1E21V0077C	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-1-STP-158	
												ETO	CVCM		FNP-1-STP-4.11 or STP-40.7 or STP-40.8 or STP-4.12	
HHSI/LHSI AND RHR TO RCS HL LOOP 3																

FARLEY UNIT 1

E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0078A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9. Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q1E21V0078B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q1E21V0078C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q1E21V0079A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q1E21V0079B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q1E21V0079C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-1-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E21V0091 (HV8860)	2	N	A	ACTIVE	1	GL	AO		C	C	C	STC	Q		FNP-1-STP-10.3	STC see Note 3
												PIT	2Y		FNP-1-STP-10.3	
												LJ-C	LJ		FNP-1-STP-627	
SIS ACCUMULATOR TANKS FILL (PEN 49)																
Q1E21V0115A	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-1-STP-166	
												ETO	Q/CVCM		FNP-1-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RCP (PEN 27)																
Q1E21V0115B	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-1-STP-166	
												ETO	Q/CVCM		FNP-1-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RCP (PEN 25)																
Q1E21V0115C	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-1-STP-166	
												ETO	Q/CVCM		FNP-1-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RCP (PEN 26)																
Q1E21V0119	2	N	AC	ACTIVE	3	CK	S		O	O/C	NA	ETO	Q/CVCM		FNP-1-STP-4.1, 4.2, 4.3	Sec. 9, Note 2
												LJ-C	LJ		FNP-1-STP-627	
												ETC	CVCM		FNP-1-STP-627.0	
CVCS CHARGING PUMP DISCHARGE TO REGENERATIVE HX.																
Q1E21V0121A	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-1-STP-644.0	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.0	
1A CHG PUMP MIN FLOW LINE CHECK VALVE																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0121B	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-1-STP-644.0	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.0	
1B CHG PUMP MIN FLOW LINE CHECK VALVE																
Q1E21V0121C	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-1-STP-644.0	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.0	
1C CHG PUMP MIN FLOW LINE CHECK VALVE																
Q1E21V0122A	2	N	AC	AACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-4.1	
												ETO	RF	ROJ-V - 16	FNP-1-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
1A CHARGING PUMP DISCHARGE																
Q1E21V0122B	2	N	AC	AACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-4.2	
												ETO	RF	ROJ-V - 16	FNP-1-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
1B CHARGING PUMP DISCHARGE																
Q1E21V0122C	2	N	AC	AACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-4.3	
												ETO	RF	ROJ-V - 16	FNP-1-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
1C CHARGING PUMP DISCHARGE																
Q1E21V0210	2	N	C	ACTIVE	2	CK	N/A	(G-10)	C	O	NA	BDTC	CSD/RF		FNP-1-STP-4.10 or STP-644.14	
												ETO	CSD/RF	CSJ-V - 07	FNP-1-STP-10.4	
CVCS BA FILTER TO CHARGING PUMP SUCTION																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E21V0213	2	N	AC	ACTIVE	3/4	CK	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	Sec. 9. Note 2
												ETC	CVCM		FNP-1-STP-627.0	
												ETO	CVCM		FNP-1-STP-627.0	
RCP SEAL TO SEAL WATER HX (PEN 28)																
Q1E21V0220A	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETO	CSD/RF	CSJ-V - 10	FNP-1-STP-10.4, STP-2.6, STP-2.8	
												ETC	Q		FNP-1-STP-2.7 & 2.9	
BORON TRANSFER PUMP DISCHARGE LINE CHECK VALVE																
Q1E21V0220B	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETO	CSD/RF	CSJ-V - 10	FNP-1-STP-10.4, STP-2.7, STP-2.9	
												ETC	Q		FNP-1-STP-2.6 & 2.8	
BORON TRANSFER PUMP DISCHARGE LINE CHECK VALVE																
Q1E21V0249A (MOV8112)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	RF	ROJ-V - 17	FNP-1-STP-45.12	STC see Note 3
												PIT	2Y		FNP-1-STP-45.12	
												LJ-C	LJ		FNP-1-STP-627	
RCP SEAL TO SEAL WATER HX (PEN 28)																
Q1E21V0249B (MOV8100)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	RF	ROJ-V - 17	FNP-1-STP-45.12	STC see Note 3
												PIT	2Y		FNP-1-STP-45.12	
												LJ-C	LJ		FNP-1-STP-627	
RCP SEAL TO SEAL WATER HX (PEN 28)																
Q1E21V0251	2	N	C	ACTIVE	2X3	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.12	
RCP SEAL WATER RETURN LINE RELIEF																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0253A (HV8149A)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
LETDOWN ORFICE ISO (PEN 23)																
Q1E21V0253B (HV8149B)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
LETDOWN ORIFICE ISO (PEN 23)																
Q1E21V0253C (HV8149C)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
LETDOWN ORIFICE ISO (PEN 23)																
Q1E21V0254 (HV8152)	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
LETDOWN LINE CTMT ISO (PEN 23)																
Q1E21V0255	2	N	AC	ACTIVE	2X3	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.11	
LETDOWN ORIFICE RELIEF (PEN 23)																
Q1E21V0257 (MOV8107)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 08	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
CVCS CHG PUMP DISCH TO REGENERATIVE HX (PEN 24)																

FARLEY UNIT 1
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0258 **(MOV8108)**	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 08	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
												LJ-C	LJ		FNP-1-STP-627	
CVCS CHG PUMP DISCH TO REGENERATIVE HX (PEN 24)																
Q1E21V0259A **(MOV8109A)**	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-1-STP-4.1 or STP-4.11 or STP-4.12	
												STO	Q		FNP-1-STP-4.1 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-1-STP-4.1 or STP-4.11 or STP-4.12	
CHG PUMP MINI FLOW LINE ISO VALVE																
Q1E21V0259B **(MOV8109B)**	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-1-STP-4.2 or STP-4.11 or STP-4.12	
												STO	Q		FNP-1-STP-4.2 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-1-STP-4.2 or STP-4.11 or STP-4.12	
CHG PUMP MINI FLOW LINE ISO VALVE																
Q1E21V0259C **(MOV8109C)**	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-1-STP-4.3 or STP-4.11 or STP-4.12	
												STO	Q		FNP-1-STP-4.3 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-1-STP-4.3 or STP-4.11 or STP-4.12	
CHG PUMP MINI FLOW LINE ISO VALVE																
Q1E21V0263A	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.14	
0.75 INCH RELIEF SIS-RHR HX TO CHG PUMP SUCTION (PEN 59)																
Q1E21V0263B	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.14	
0.75 INCH RELIEF SIS-RHR HX TO CHG PUMP SUCTION (PEN 59)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0264 **(MOV8104)**	2	N	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-1-STP-10.5	
												STC	Q		FNP-1-STP-10.5	
												PIT	2Y		FNP-1-STP-10.5, 45.0	
EMERGENCY BORATE TO CHG PUMP																
Q1E21V0265 **(MOV8106)**	2	N	B	ACTIVE	3	GL	MO		O	O/C	AI	STC	CSD/RF	CSJ-V - 11	FNP-1-STP-45.1	
												STO	CSD/RF	CSJ-V - 11	FNP-1-STP-45.1	
												PIT	2Y		FNP-1-STP-45.1	
CHARGING PUMP MINI FLOW COMMON LINE ISO VALVE																
Q1E21V0324A **(MOV8130A)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q1E21V0324B **(MOV8130B)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q1E21V0325A **(MOV8131A)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q1E21V0325B **(MOV8131B)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-1-STP-10.3	
												STO	Q		FNP-1-STP-10.3	
												PIT	2Y		FNP-1-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E21V0326A (MOV8132A)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-1-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
CHG PUMP DISCHARGE																
Q1E21V0326B (MOV8132B)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-1-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
CHG PUMP DISCHARGE																
Q1E21V0327A (MOV8133A)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-1-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
CHG PUMP DISCHARGE																
Q1E21V0327B (MOV8133B)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-1-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-1-STP-45.4	
												PIT	2Y		FNP-1-STP-45.4	
CHG PUMP DISCHARGE																
Q1E21V0336A (LCV115B)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STC	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	STC, STO-Note 3
												STO	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	
												PIT	2Y		FNP-1-STP-45.1	
CHG PUMP SUCTION FROM RWST																

FARLEY UNIT 1

E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1E21V0336B (LCV115D)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STC	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	STC, STO-Note 3
												STO	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	
												PIT	2Y		FNP-1-STP-45.1	
CHG PUMP SUCTION FROM RWST																
Q1E21V0376A (LCV115C)	2	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
VCT OUTLET ISO																
Q1E21V0376B (LCV115E)	2	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 09	FNP-1-STP-45.1	STC see Note 3
												PIT	2Y		FNP-1-STP-45.1	
VCT OULTET ISO																
Q1E21V0565A (HV8175A)	2	N	B	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-1-STP-45.1	
												PIT	2Y		FNP-1-STP-45.1	
CVCS LETDOWN LINE ISOLATION																
Q1E21V0565B (HV8175B)	2	N	B	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-1-STP-45.1	
												PIT	2Y		FNP-1-STP-45.1	
CVCS LETDOWN LINE ISOLATION																

FARLEY UNIT 1

E22 - Reactor Cavity Post-LOCA Dilution

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E22V0001A (MOV3872A)	Aug	Y	B	ACTIVE	2 1/2	GA	MO		C	O	AI	STO	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
1A RX CAVITY H2 DILUTION FAN DAMPER																
Q1E22V0001B (MOV3872B)	Aug	Y	B	ACTIVE	2 1/2"	GA	MO		C	O	AI	STO	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
1B RX CAVITY H2 DILUTION FAN DAMPER																

FARLEY UNIT 1

E23 - Post Accident Ctmt Vent and Sample

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E23V0002 **(MOV3740)**	2	N	A	ACTIVE	6	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA VENT (PEN 103)																
Q1E23V0003 **(MOV3530)**	2	N	A	ACTIVE	6	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA VENT (PEN 103)																
Q1E23V0022A **(MOV3528A)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE (PEN 67)																
Q1E23V0022B **(MOV3528B)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE (PEN 67)																
Q1E23V0022C **(MOV3528C)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE (PEN 61A)																
Q1E23V0022D **(MOV3528D)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE (PEN 61A)																

FARLEY UNIT 1

E23 - Post Accident Ctmt Vent and Sample

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1E23V0023A (MOV3739A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE (PEN 67)																
Q1E23V0023B (MOV3739B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE (PEN 61A)																
Q1E23V0024A (MOV3745A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE RETURN (PEN 66)																
Q1E23V0024B (MOV3745B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT AIR SAMPLE RETURN (PEN 61B)																
Q1E23V0025A (MOV3835A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE RETURN (PEN 66)																
Q1E23V0025B (MOV3835B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-1-STP-19.3	
												PIT	2Y		FNP-1-STP-19.3	
												LJ-C	LJ		FNP-1-STP-627	
CTMT POST-LOCA SAMPLE RETURN (PEN 61B)																

FARLEY UNIT 1

G21 - Liquid Waste Disposal

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N1G21V0222	Aug	Y	C	ACTIVE	3/4X1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.16	
CTMT SUMP PUMP RELIEF VALVE (PEN 78)																
Q1G21HV3376	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT SUMP PUMP DISCHARGE (PEN 78)																
Q1G21HV3377	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT SUMP PUMP DISCHARGE (PEN 78)																
Q1G21HV3380	2	N	A	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT SUMP RECIRCULATION (PEN 33)																
Q1G21V0001 (HV7150)	2	N	A	ACTIVE	3/4	D	AO		C	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
REACTOR COOLANT DRAIN TANK VENT TO WASTE GAS SYSTEM(PEN62)																
Q1G21V0005 (V7135)	2	N	A	PASSIVE	3	D	M		LC	LC	N/A	LJ-C	LJ		FNP-1-STP-627	
RCDT PUMP DISCH CONTROL VALVE BYPASS(PEN31)																
Q1G21V0006 (HV7136)	2	N	A	ACTIVE	3	D	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
RCDT PUMP DISCH TO RECYCLE HOLDUP TANK(PEN31)																

FARLEY UNIT 1

G21 - Liquid Waste Disposal

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1G21V0064 **(LCV1003)**	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
RCDT PUMP DISCH CONTROL VALVE(PEN 31)																
Q1G21V0082 **(HV7126)**	2	N	A	ACTIVE	3/4	D	AO		O	C	C	STC	Q		FNP-1-STP-44.0	STC see Note 3
												PIT	2Y		FNP-1-STP-44.0	
												LJ-C	LJ		FNP-1-STP-627	
RCDT VENT TO WASTE GAS SYSTEM(PEN 62)																
Q1G21V0204	2	N	AC	ACTIVE	2	CK	S		O/C	O/C	N/A	LJ-C	LJ		FNP-1-STP-627	
												ETC	RF	ROJ-V - 24	FNP-1-STP-627.0	
												ETO	RF	ROJ-V - 24	FNP-1-STP-627.0	
CTMT SUMP RECIRC (PEN 33)																
Q1G21V0291	2	N	AC	ACTIVE	3/4	CK	S		C	O/C	N/A	LJ-C	LJ		FNP-1-STP-627	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-627.0	
												ETO	CVCM		FNP-1-STP-627.0	
CTMT SUMP PUMP DISCHARGE																
Q1G21V0950	2	N	AC	ACTIVE	3/4x1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.21	
WASTE PROCESSING SYSTEM (PEN 31) RELIEF VALVE																

FARLEY UNIT 1

G24 - Steam Generator Blowdown

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1G24V0003A (HV7614A) SG BLOWDOWN ISOLATION VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25 FNP-1-STP-22.25	
Q1G24V0003B (HV7614B) SG BLOWDOWN ISOLATION VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25 FNP-1-STP-22.25	
Q1G24V0003C (HV7614C) SG BLOWDOWN ISOLATION VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25 FNP-1-STP-22.25	
Q1G24V0005A (HV7697A) SG BLOWDOWN BLOCK VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25, STP-45.13 FNP-1-STP-22.25, STP-45.13	
Q1G24V0005B (HV7698A) SG BLOWDOWN BLOCK VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25, STP-45.13 FNP-1-STP-22.25, STP-45.13	
Q1G24V0005C (HV7699A) SG BLOWDOWN BLOCK VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25, STP-45.13 FNP-1-STP-22.25, STP-45.13	
Q1G24V0006A (HV7697B) SG BLOWDOWN ISOLATION VALVE	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC PIT	Q 2Y		FNP-1-STP-22.25, STP-45.13 FNP-1-STP-22.25, STP-45.13	

FARLEY UNIT 1

G24 - Steam Generator Blowdown

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1G24V0006B (HV7698B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-22.25, STP-45.13	
												PIT	2Y		FNP-1-STP-22.25, STP-45.13	
SG BLOWDOWN ISOLATION VALVE																
Q1G24V0006C (HV7699B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-22.25, STP-45.13	
												PIT	2Y		FNP-1-STP-22.25, STP-45.13	
SG BLOWDOWN ISOLATION VALVE																

FARLEY UNIT 1
G31 - G31

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1G31V0012	2	N	A	PASSIVE	2	D	M		LC	C	N/A	LJ-C	LJ		FNP-1-STP-627	
SPENT FUEL POOL CLEAN-UP TO REACTOR CAVITY(PEN 95)																
Q1G31V0013	2	N	AC	PASSIVE	2	CK	S		C	C	N/A	LJ-C	LJ		FNP-1-STP-627	
SPENT FUEL POOL CLEAN-UP TO REACTOR CAVITY(PEN 95)																
Q1G31V033A (HV033A)	2	N	B	ACTIVE	2	B	AOV		O/C	C	C	STC	Q		FNP-1-STP-44.0	
												PIT	2Y		FNP-1-STP-44.0	
RWST to RWPP Auto Isolation																
Q1G31V033B (HV033B)	2	N	B	ACTIVE	2	B	AOV		O/C	C	C	STC	Q		FNP-1-STP-44.0	
												PIT	2Y		FNP-1-STP-44.0	
RWST to RWPP Auto Isolation																

FARLEY UNIT 1

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1N11PV3371A	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-1-STP-45.15	
												STC	CSD/RF		FNP-1-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q1N11PV3371B	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-1-STP-45.15	
												STC	CSD/RF		FNP-1-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q1N11PV3371C	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-1-STP-45.15	
												STC	CSD/RF		FNP-1-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q1N11V0001A (HV3369A)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q1N11V0001B (HV3369B)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q1N11V0001C (HV3369C)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																

FARLEY UNIT 1

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q1N11V0002A (HV3370A)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q1N11V0002B (HV3370B)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q1N11V0002C (HV3370C)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-1-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q1N11V0003A (HV3368A)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q1N11V0003B (HV3368B)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q1N11V0003C (HV3368C)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																

FARLEY UNIT 1

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N11V0003D (HV3976A)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q1N11V0003E (HV3976B)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q1N11V0003F (HV3976C)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-1-STP-45.7	
												PIT	2Y		FNP-1-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q1N11V0010A	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q1N11V0010B	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q1N11V0010C	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q1N11V0010D	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q1N11V0010E	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q1N11V0011A	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																

FARLEY UNIT 1

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N11V0011B MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0011C MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0011D MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0011E MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0012A MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0012B MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0012C MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0012D MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	
Q1N11V0012E MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-608.0, STP-608.1	

FARLEY UNIT 1

N12 - Auxiliary Steam

Valve ID / Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position: Normal	Position: Safety	Position: Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N12HV3226	3	N	B	ACTIVE	3	GL	AO		C	O	O	STO	Q		FNP-1-STP-21.3	
												PIT	2Y		FNP-1-STP-21.3	
MAIN STEAM TO TDAFW PUMP																
Q1N12HV3234A	2	N	B	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-1-STP-21.3	STC see Note 3
												PIT	2Y		FNP-1-STP-21.3	
MAIN STM LINE TO TDAFW PUMP WARM-UP LINE																
Q1N12HV3234B	2	N	B	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-1-STP-21.3	STC see Note 3
												PIT	2Y		FNP-1-STP-21.3	
MAIN STM LINE TO TDAFW PUMP WARM-UP LINE																
Q1N12MOV3406	3	Y	B	PASSIVE	3	GL	MO	(D-4)	O	O	AI	PIT	2Y		FNP-1-STP-22.23	
PUMP TURBINE STEAM FLOW THROTTLE AND TRIP																
Q1N12V0001A (HV3235A)	2	N	BC	ACTIVE	3	SC	AO/S		C	O/C	C	ETO	Q		FNP-1-STP-21.3 or STP-22.16/STP-22.32	
												ETC	Q		FNP-1-STP-21.3	
												PIT	2Y		FNP-1-STP-21.3	
MAIN STEAM TO TDAFW PUMP SHUTOFF VALVE																
Q1N12V0001B (HV3235B)	2	N	BC	ACTIVE	3	SC	AO/S		C	O/C	C	ETC	Q		FNP-1-STP-21.3	
												PIT	2Y		FNP-1-STP-21.3	
												ETO	Q		FNP-1-STP-22.3 or STP-21.16/STP-22.32	
MAIN STEAM TO TDAFW PUMP SHUTOFF VALVE																
Q1N12V0010A	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-22.32	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.8	
MAIN STEAM TO TDAFW PUMP TURBINE																

FARLEY UNIT 1

N12 - Auxiliary Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N12V0010B	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM		FNP-1-STP-22.32	Sec. 9. Note 2
												ETC	CVCM		FNP-1-STP-644.8	
MAIN STEAM TO TDAFW PUMP TURBINE																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N1N23V0001	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-1-STP-22.16/FNP-1-STP-	
TDAFW PUMP MINI FLOW CHECK VALVE																
N1N23V0005	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-1-STP-22.1	
MDAFW PUMP MINI FLOW																
N1N23V0009	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-1-STP-22.2	
MDAFW PUMP MINI FLOW																
N1N23V0013	Aug	Y	C	ACTIVE	6	CK	S		C	O	NA	ETO	Q		FNP-1-STP-22.1 or 22.2 or 22.16	
AFW PUMPS TO CONDENSATE STORAGE TANK																
Q1N23HV3227A	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1A FCV																
Q1N23HV3227B	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1B DISCHARGE FCV																
Q1N23HV3227C	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1C DISCHARGE FCV																
Q1N23HV3228A	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
TDAFW PUMP TO SG 1A FCV																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N23HV3228B	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD/RF		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
TDAFW PUMP TO SG 1B FCV																
Q1N23HV3228C	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	CSD/RF		FNP-1-STP-22.8 CSD	
												STO	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
TDAFW PUMP TO SG 1C FCV																
Q1N23V0002A	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
												ETC	CVCM		FNP-1-STP-22.24	
MDAFW 1A DISCHARGE TO SG																
Q1N23V0002B	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
												ETC	CVCM		FNP-1-STP-22.24	
MDAFW 1B DISCHARGE TO SG																
Q1N23V0002C	3	N	C	ACTIVE	4	CK	N/A	(B-9)	C	O	NA	BDTC	CVCM		FNP-1-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
MDAFW DISCHARGE TO SG 1A																
Q1N23V0002D	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-1-STP-22.30	
TDAFW DISCHARGE TO SG 1A																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N23V0002E	3	N	C	ACTIVE	4	CK	N/A	(D-9)	C	O	NA	BDTC	CVCM		FNP-1-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
MDAFW DISCHARGE TO SG 1B																
Q1N23V0002F	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-1-STP-22.30	
TDAFW DISCHARGE TO SG 1B																
Q1N23V0002G	3	N	C	ACTIVE	4	CK	N/A	(G-9)	C	O	NA	BDTC	CVCM		FNP-1-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
MDAFW DISCHARGE TO SG 1C																
Q1N23V0002H	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-1-STP-22.30	
TDAFW DISCHARGE TO SG 1C																
Q1N23V0003	3	N	C	ACTIVE	6	CK	N/A	(G-6)	C	O	NA	BDTC	CVCM		FNP-1-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.13	
TDAFW DISCHARGE TO SG																
Q1N23V0006	3	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETO	CSD/RF	CSJ-V - 15	FNP-1-STP-22.13 or STP-22.32	
												ETC	CSD/RF	CSJ-V - 17	FNP-1-STP-22.28	
TDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																
Q1N23V0007A	3	N	C	ACTIVE	6	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
												ETC	CVCM	CSJ-V - 17	FNP-1-STP-22.28	
MDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N23V0007B	3	N	C	ACTIVE	6	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
												ETC	CVCM	CSJ-V - 17	FNP-1-STP-22.28	
MDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																
Q1N23V0011A (MOV3350A)	2	N	C	ACTIVE	4	CK	N/A	(B-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-1-STP-22.30	
												PIT	2Y		FNP-1-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
AUX FEEDWATER TO SG 1A																
Q1N23V0011B (MOV3350B)	2	N	C	ACTIVE	4	CK	N/A	(D-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-1-STP-22.30	
												PIT	2Y		FNP-1-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
AUX FEEDWATER TO SG 1B																
Q1N23V0011C (MOV3350C)	2	N	C	ACTIVE	4	CK	N/A	(G-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-1-STP-22.30	
												PIT	2Y		FNP-1-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-1-STP-22.12	
AUX FEEDWATER TO SG 1C																
Q1N23V0013A (MOV3210A)	3	N	B	ACTIVE	6	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
MDAFW PUMP SW INLET																
Q1N23V0013B (MOV3210B)	3	N	B	ACTIVE	6	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
MDAFW PUMP SW INLET																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N23V0014A (MOV3209A)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
MDAFW PUMP SW INLET																
Q1N23V0014B (MOV3209B)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
MDAFW PUMP SW INLET																
Q1N23V0014C (MOV3216)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
TDAFW PUMP SW INLET																
Q1N23V0025A (MOV3764A)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1A																
Q1N23V0025B (MOV3764B)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1B																
Q1N23V0025C (MOV3764C)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1C																
Q1N23V0025D (MOV3764D)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1B																
Q1N23V0025E (MOV3764E)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1A																

FARLEY UNIT 1

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N23V0025F (MOV3764F)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-1-STP-22.8	
												PIT	2Y		FNP-1-STP-22.8	
MDAFW PUMP TO SG 1C																
Q1N23V0068A (PSV2922A)	3	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.5	
1A MDAFW PUMP SUCTION LINE RELIEF VALVE																
Q1N23V0068B (PSV2922B)	3	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.5	
1B MDAFW PUMP SUCTION LINE RELIEF VALVE																
Q1N23V0068C (PSV2922C)	3	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.5	
TDAFW PUMP SUCTION LINE RELIEF VALVE																

FARLEY UNIT 1

N25 - Chemical Injection

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1N25V0001A (HV3772A)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																
Q1N25V0001B (HV3772B)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																
Q1N25V0001C (HV3772C)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																

FARLEY UNIT 1

P11 - Demineralized Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P11V0001 **(HV3659)**	2	N	A	PASSIVE	3	GL	AO		C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
DEMIN WATER TO RPV HEAD STORAGE STAND (PEN 82)																
Q1P11V0002	2	N	AC	PASSIVE	3	CK	S		C	C	NA	LJ-C	LJ		FNP-1-STP-627	
DEMIN WATER TO RPV HEAD STORAGE STAND (PEN 82)																

FARLEY UNIT 1

P13 - Containment Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P13V0281 **(HV3198D)**	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-1-STP-18.3	STC see Note 3
												PIT	2Y		FNP-1-STP-18.3	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
PURGE SUPPLY DAMPER (PEN 12)																
Q1P13V0282 **(HV3197)**	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-1-STP-18.3	STC see Note 3
												PIT	2Y		FNP-1-STP-18.3	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
PURGE SUPPLY DAMPER (PEN 12)																
Q1P13V0283 **(HV3196)**	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-1-STP-18.3	STC see Note 3
												PIT	2Y		FNP-1-STP-18.3	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT PURGE EXHAUST (PEN 13)																
Q1P13V0284 **(HV3198A)**	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-1-STP-18.3	STC see Note 3
												PIT	2Y		FNP-1-STP-18.3	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT PURGE EXHAUST (PEN 13)																
Q1P13V0301 **(HV2866C)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-18.5	STC see Note 3
												PIT	2Y		FNP-1-STP-18.5	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT MINI-PURGE SUPPLY (PEN 12)																
Q1P13V0302 **(HV2866D)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-18.5	STC see Note 3
												PIT	2Y		FNP-1-STP-18.5	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT MINI-PURGE SUPPLY (PEN 12)																

FARLEY UNIT 1

P13 - Containment Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P13V0303 **(HV2867C)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-18.5	STC see Note 3
												PIT	2Y		FNP-1-STP-18.5	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT MINI-PURGE EXHAUST (PEN 13)																
Q1P13V0304 **(HV2867D)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-18.5	STC see Note 3
												PIT	2Y		FNP-1-STP-18.5	
												LJ-C	LJ		FNP-1-STP-627.0/.1/.2	
CTMT MINI-PURGE EXHAUST (PEN 13)																

FARLEY UNIT 1

P15 - Sampling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P15HV3179A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1A BLOWDOWN LOWER ISOLATION VALVE																
Q1P15HV3179C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1A BLOWDOWN SAMPLE ISOLATION VALVE																
Q1P15HV3180A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1B BLOWDOWN LOWER ISOLATION VALVE																
Q1P15HV3180C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1B BLOWDOWN SAMPLE ISOLATION VALVE																
Q1P15HV3181A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1C BLOWDOWN LOWER ISOLATION VALVE																
Q1P15HV3181C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1C BLOWDOWN SAMPLE ISOLATION VALVE																
Q1P15HV3328	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1A BLOWDOWN SAMPLE ISOLATION VALVE																
Q1P15HV3329	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1B BLOWDOWN SAMPLE ISOLATION VALVE																

FARLEY UNIT 1

P15 - Sampling

Valve ID / Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position: Normal	Position: Safety	Position: Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P15HV3330	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
SG 1C BLOWDOWN SAMPLE ISOLATION VALVE																
Q1P15HV3334	2	N	A	ACTIVE	3/8	GL	AO	(G-5)	C	O/C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												STO	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
ACCUMULATOR TANKS SAMPLE (PEN 50)																
Q1P15HV3766	2	N	A	ACTIVE	3/8	GL	AO		C	C	C	STC	Q		FNP-1-STP-47.0	STC see Note 3
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
ACCUMULATOR TANKS SAMPLE (PEN 50)																
Q1P15SV3103	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
RCS PRESSURIZER LIQUID SAMPLE(PEN 57)																
Q1P15SV3104	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
PRESSURIZER STEAM SAMPLE TO GFFD(PEN 56)																
Q1P15SV3331	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
PRESSURIZER STEAM SAMPLE LINE CTMT ISO(PEN 56)																

FARLEY UNIT 1

P15 - Sampling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P15SV3332	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
PRESSURIZER LIQUID SAMPLE TO GFFD(PEN 57)																
Q1P15SV3333	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
RCS (HL) SAMPLE TO GFFD(PEN58)																
Q1P15SV3765	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-1-STP-47.1	STC see Note 3
												STC	Q		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
RCS (HL) SAMPLE TO GFFD (PEN 58)																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N1P16V0718A	Aug	Y	C	ACTIVE	2.5	VR	S		C	O/C	C	ETC	RF		PM TASK	
												ETO	RF		PM TASK	
SW VACUUM BREAKERS - TURBINE BLDG HVAC																
N1P16V0718B	Aug	Y	C	ACTIVE	2.5	VR	S		C	O/C	C	ETC	RF		PM TASK	
												ETO	RF		PM TASK	
SW VACUUM BREAKERS - TURBINE BLDG HVAC																
Q1P16FV3009A	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-1-STP-23.14	
SW from 1A CCW HX flow control valve																
Q1P16FV3009B	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-1-STP-23.14	
SW from 1B CCW HX flow control valve																
Q1P16FV3009C	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-1-STP-23.14	
SW from 1C CCW HX flow control valve																
Q1P16V0003A (MOV3130A)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.15	
SW TO CCW HX INLET LINE ISO VALVE																
Q1P16V0003B (MOV3130B)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.14	
SW TO CCW HX INLET LINE ISO VALVE																
Q1P16V0003C (MOV3130C)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.14	
SW TO CCW HX INLET LINE ISO VALVE																
Q1P16V0010A (MOV3019A)	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0010B **(MOV3019B)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																
Q1P16V0010C **(MOV3019C)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW TO CTMT COOLER LINE ISO VALVE																
Q1P16V0010D **(MOV3019D)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW TO CTMT COOLER LINE ISO VALVE																
Q1P16V0011B **(PSV3020B)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q1P16V0011C **(PSV3020C)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q1P16V0011D **(PSV3020D)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q1P16V0015A **(PSV3142A)**	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
AFW PUMP ROOM COOLER RELIEF																
Q1P16V0015B **(PSV3142B)**	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
AFW PUMP ROOM COOLER RELIEF																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0020A (PSV3137A) RHR/LHSI PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0020B (PSV3137B) RHR/LHSI PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0025A (PSV3138A) CCW PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0025B (PSV3138B) CCW PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0035A (PSV3139A) CTMT SPRAY PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0035B (PSV3139B) CTMT SPRAY PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.23	
Q1P16V0043A (MOV3024A) SERVICE WATER EMERG FROM CTMT COOLER 1A	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC STO PIT	Q Q 2Y		FNP-1-STP-24.16 FNP-1-STP-24.16 FNP-1-STP-24.16	STC, STO-Note 3
Q1P16V0043B (MOV3024B) SERVICE WATER EMERG FROM CTMT COOLER 1B	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC STO PIT	Q Q 2Y		FNP-1-STP-24.16 FNP-1-STP-24.16 FNP-1-STP-24.16	STC, STO-Note 3

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0043C (MOV3024C)	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SERVICE WATER EMERG FROM CTMT COOLER 1C																
Q1P16V0043D (MOV3024D)	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SERVICE WATER EMERG FROM CTMT COOLER 1D																
Q1P16V0044A (MOV3023A)	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q1P16V0044B (MOV3023B)	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q1P16V0044C (MOV3023C)	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q1P16V0044D (MOV3023D)	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0052 (MOV3149)	3	N	B	ACTIVE	10	B	MO		O	C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	STC see Note 3
												STC	Q		FNP-1-STP-24.7	
SW TO SG BLOWDOWN HX AND BTRS CHILLER UNITS																
Q1P16V0064 (MOV3150)	3	N	B	ACTIVE	10	B	MO		O	C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	STC see Note 3
												STC	Q		FNP-1-STP-24.7	
SW FROM SG BLOWDOWN HX AND BTRS CHILLER UNITS																
Q1P16V0069A	3	N	C	ACTIVE	30	CK	S		O	O	NA	BDTC	CVCM		FNP-1-STP-24.24A or STP-644.2	
												ETO	CVCM		FNP-1-STP-17.0	
AUX BLDG SW DISCHARGE LINE CHECK VALVE A TRAIN																
Q1P16V0069B	3	N	C	ACTIVE	30	CK	N/A	(A-10)	O	O	NA	BDTC	CVCM		FNP-1-STP-24.24B or STP-644.2	
												ETO	CVCM		FNP-1-STP-17.0	
AUX BLDG SW DISCHARGE LINE CHECK VALVE B TRAIN																
Q1P16V0070A	3	N	C	ACTIVE	16	CK	S		O	O	NA	BDTC	CVCM		FNP-1-STP-644.2	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-17.0	
SW TO CTMT COOLERS HEADER CHECK VALVE A TRAIN																
Q1P16V0070B	3	N	C	ACTIVE	16	CK	S		O	O	NA	BDTC	CVCM		FNP-1-STP-644.2	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-17.0	
SW TO CTMT COOLERS HEADER CHECK VALVE B TRAIN																
Q1P16V0071 (MOV3135)	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-1-STP-24.16	STC see Note 3
												PIT	2Y		FNP-1-STP-24.16	
												LJ-C	LJ		FNP-1-STP-627	
SW TO RCP MOTOR COOLERS																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0072 **(MOV3134)**	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-1-STP-24.16	STC see Note 3
												PIT	2Y		FNP-1-STP-24.16	
												LJ-C	LJ		FNP-1-STP-627	
SW RETURN FROM RCP MOTOR COOLERS																
Q1P16V0075	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO	CVCM		FNP-1-SOP-1.1	Sec. 9, Note 2
												LJ-C	LJ		FNP-1-STP-627	
												ETC	CVCM		FNP-1-STP-627.0	
SW TO RCP MOTOR COOLERS																
Q1P16V0081 **(MOV3131)**	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-1-STP-24.16	STC see Note 3
												PIT	2Y		FNP-1-STP-24.16	
												LJ-C	LJ		FNP-1-STP-627	
SW RETURN FROM RCP MOTOR COOLERS																
Q1P16V0203 **(PSV3397)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.19	
CTMT PEN 32 THERMAL RELIEF VALVE																
Q1P16V0204 **(PSV3401)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.19	
CTMT PEN 60 THERMAL RELIEF VALVE																
Q1P16V0206A	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-1-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.15	
SW TO CTMT COOLER 1A CHECK VALVE																
Q1P16V0206B	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-1-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.15	
SW TO CTMT COOLER 1B CHECK VALVE																

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0206C	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-1-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.15	
SW TO CTMT COOLER 1C CHECK VALVE																
Q1P16V0206D	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-1-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.15	
SW TO CTMT COOLER 1D CHECK VALVE																
Q1P16V0207A (MOV3441A)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS LINE ISO VALVE																
Q1P16V0207B (MOV3441B)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS LINE ISO VALVE																
Q1P16V0207C (MOV3441C)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS LINE ISO VALVE																
Q1P16V0207D (MOV3441D)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-1-STP-24.16	
												PIT	2Y		FNP-1-STP-24.16	
SW FROM CTMT AIR COOLERS LINE ISO VALVE																
Q1P16V0208A (PSV3442A)	2	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.15	
CTMT COOLER SW RETURN RELIEF VALVE																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0208B (PSV3442B) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.15	
Q1P16V0208C (PSV3442C) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.15	
Q1P16V0208D (PSV3442D) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.15	
Q1P16V0506 1C SW PUMP TO B HDR ISO	3	N	B	PASSIVE	42	B	MO		AI	AI	AI	PIT	2Y		FNP-1-STP-24.15	
Q1P16V0507 1C SW PUMP TO A HDR ISO	3	N	B	PASSIVE	42	B	MO		AI	AI	AI	PIT	2Y		FNP-1-STP-24.14	
Q1P16V0508 SW INLET TO STRAINER LINE ISO VALVE	3	N	B	PASSIVE	42	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.15	
Q1P16V0511 SW INLET TO STRAINER LINE ISO VALVE	3	N	B	PASSIVE	42	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.14	
Q1P16V0514 SW SUPPLY TO TURBINE BLDG-TRAIN B	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC PIT	CSD/RF 2Y	CSJ-V - 19	FNP-1-STP-45.6 FNP-1-STP-45.6	STC see Note 3
Q1P16V0515 SW SUPPLY TO TURBINE BLDG-TRAIN A	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC PIT	CSD/RF 2Y	CSJ-V - 19	FNP-1-STP-45.6 FNP-1-STP-45.6	STC see Note 3

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0516	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	STC see Note 3
												PIT	2Y		FNP-1-STP-45.6	
SW TRAIN A TO TURBINE BLDG																
Q1P16V0517	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	STC see Note 3
												PIT	2Y		FNP-1-STP-45.6	
SW TRAIN B TO TURBINE BLDG																
Q1P16V0518	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	Sec. 9, Note 1
												STC	Q		FNP-1-STP-24.7	
SW TO DG HEADER-TRAIN B																
Q1P16V0519	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-24.7, 45.0	
SW TO DG HEADER-TRAIN A																
Q1P16V0520	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																
Q1P16V0521	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																
Q1P16V0522	3	N	B	PASSIVE	8	B	MO		C	C	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																
Q1P16V0523	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																
Q1P16V0524	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0525 SW TO DG LINE ISO VALVE	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0526 SW TO DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0527 SW TO DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0528 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0529 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0530 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		C	C	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0531 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0532 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0533 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	6	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0534 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q1P16V0535 SW FROM DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0536	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	Sec. 9, Note 1
												STC	Q		FNP-1-STP-24.7	
SW FROM DG HEADER-TRAIN B																
Q1P16V0537	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-1-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-1-STP-24.7, 45.0	
SW FROM DG HEADER-TRAIN A																
Q1P16V0538	3	N	B	ACTIVE	42	B	MO		C	O	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	
												STO	Q		FNP-1-STP-24.7	
SW HEADER B EMERG RECIRC TO STORAGE POND																
Q1P16V0539	3	N	B	ACTIVE	42	B	MO		C	O	AI	STO	Q		FNP-1-STP-24.7	
												PIT	2Y		FNP-1-STP-24.7, 45.0	
SW HEADER A EMERG RECIRC TO STORAGE POND																
Q1P16V0540	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	
												PIT	2Y		FNP-1-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A																
Q1P16V0541	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	
												PIT	2Y		FNP-1-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN B																
Q1P16V0542	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	
												PIT	2Y		FNP-1-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A																

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0543	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-1-STP-45.6	
												PIT	2Y		FNP-1-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN B																
Q1P16V0545	3	N	B	ACTIVE	30	B	MO		O	C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	
												STC	Q		FNP-1-STP-24.7	
SW HEADER B NORMAL DISC HDR ISO																
Q1P16V0546	3	N	B	ACTIVE	30	B	MO		O	C	AI	PIT	2Y		FNP-1-STP-24.7, 45.0	
												STC	Q		FNP-1-STP-24.7	
SW HEADER A NORMAL DISC HDR ISO																
Q1P16V0549	3	N	B	ACTIVE	30	B	MO		O	C	AI	STC	RF	ROJ-V - 41	FNP-1-STP-24.14	
												PIT	2Y		FNP-1-STP-24.14	
SW RETURN TO STANDPIPE LINE ISO VALVE																
Q1P16V0550	3	N	B	ACTIVE	30	B	MO		O	C	AI	STC	Q		FNP-1-STP-24.14	
												PIT	2Y		FNP-1-STP-24.14	
SW RETURN TO CIRC WATER CANAL LINE ISO VALVE																
Q1P16V0552	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-24.1	
												ETO	Q		FNP-1-STP-24.1	
SW PUMP 1A DISCHARGE CHECK																
Q1P16V0553	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-24.1	
												ETO	Q		FNP-1-STP-24.1	
SW PUMP 1B DISCHARGE CHECK																

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0554	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-24.1 or STP-24.2	
												ETO	Q		FNP-1-STP-24.1 or STP-24.2	
SW PUMP 1C DISCHARGE CHECK																
Q1P16V0555	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-24.2	
												ETO	Q		FNP-1-STP-24.2	
SW PUMP 1D DISCHARGE CHECK																
Q1P16V0556	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-24.2	
												ETO	Q		FNP-1-STP-24.2	
SW PUMP 1E DISCHARGE CHECK																
Q1P16V0557	3	N	B	PASSIVE	24	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.15	
SW DILUTION BYPASS LINE ISO VALVE																
Q1P16V0558	3	N	B	PASSIVE	24	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-24.14	
SW DILUTION BYPASS ISO A TRAIN																
Q1P16V0564	3	N	C	ACTIVE	12	CK	S		O	O	NA	BDTC	CVCM		FNP-1-STP-644.2	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.2	
DIESEL GENERATORS 'TRAIN B' SERVICE WATER CHECK VALVE																
Q1P16V0565	3	N	C	ACTIVE	12	CK	S		O	O	NA	BDTC	CVCM		FNP-1-STP-644.2	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.2	
DIESEL GENERATORS 'TRAIN A' SERVICE WATER CHECK VALVE																
Q1P16V0592	3	N	B	PASSIVE	8	B	MO		C	C	AI	PIT	2Y		FNP-0-STP-24.17	
SW TO DG LINE ISO VALVE																
Q1P16V0593	3	N	B	PASSIVE	8	B	MO		C	C	AI	PIT	2Y		FNP-0-STP-24.17	
2B DG SW SUPPLY FROM UNIT 1																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0635A	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-644.3	Sec. 9. Note 2
												ETO	CVCM		FNP-1-STP-644.3	
NON TREATED SW TO PUMP SEALS AND MOTOR COOLERS																
Q1P16V0635B	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETC	CVCM		FNP-1-STP-644.3	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.3	
NON TREATED SW TO PUMP SEALS AND MOTOR COOLERS																
Q1P16V0636A	3	N	C	ACTIVE	2	CK	S		O	O/C	NA	ETC	CVCM		FNP-1-STP-644.3	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.3	
TREATED AND NON-TREATED SW TO SW PUMP SEALS AND MOTOR COOLERS																
Q1P16V0636B	3	N	C	ACTIVE	2	CK	S		O	O/C	NA	ETC	CVCM		FNP-1-STP-644.3	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.3	
TREATED AND NON-TREATED SW TO SW PUMP SEALS AND MOTOR COOLERS																
Q1P16V0659	3	N	C	ACTIVE	6	CK	S		O	O/C	NA	ETO	CVCM		FNP-0-STP-80.17	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.11	
UNIT 1 SW SUPPLY TO DG 2C																
Q1P16V0660	3	N	C	ACTIVE	6	CK	S		O	O/C	NA	ETO	CVCM		FNP-0-STP-80.2	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.11	
UNIT 1 SW SUPPLY TO DG 1C																
Q1P16V0661	3	N	C	ACTIVE	8	CK	S		O	O/C	NA	ETC	CVCM		FNP-1-STP-644.12	Sec. 9, Note 2
												ETO	CVCM		FNP-1-STP-644.12	
UNIT 1 SW SUPPLY TO DG 1-2A																
Q1P16V0679	3	Y	C	ACTIVE	8	VR	S		C	O/C	NA	ETC	RF		FNP-1-STP-644.18	
												ETO	RF		FNP-1-STP-644.18	
SW HEADER VACUUM BREAKER																

FARLEY UNIT 1

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P16V0680	3	Y	C	ACTIVE	8	VR	S		C	O/C	NA	ETC	RF		FNP-1-STP-644.18	
												ETO	RF		FNP-1-STP-644.18	
SW HEADER VACUUM BREAKER																
Q1P16V0721A	3	N	B	ACTIVE	2	GL	MO		O	C	AI	STC	Q		FNP-1-STP-24.11	
												PIT	2Y		FNP-1-STP-24.11	
SW TO CYCLONE SEPARATOR TRAIN A INLET																
Q1P16V0721B	3	N	B	ACTIVE	2	GL	MO		O	C	AI	STC	Q		FNP-1-STP-24.11	
												PIT	2Y		FNP-1-STP-24.11	
SW TO CYCLONE SEPARATOR TRAIN B INLET																
Q1P16V562	III	Y	B	N/A	24 inch	BTF	AOV	(B-10)	C	O/C	C	(No Tests)				
B-Train Dilution By-Pass PCV																
Q1P16V577	III	Y	B	N/A	8 in.	GL	AOV	(E-3)	C	O/C	C	(No Tests)				
A-Train Service Water Mini-Flow																
Q1P16V578	Class III	Y	B	N/A	8 inch	GL	AOV	(E-5)	C	O/C	C	(No Tests)				
1C Service Water Pump Mini-Flow																
QSP16V0507	3	N	B	PASSIVE	60	B	MO		O	O	AI	PIT	2Y		FNP-1/2-STP-24.14	
												PIT	2Y		FNP-2-STP-24.14	
												PIT	2Y		FNP-1-STP-24.14	
SW RECIRC LINE DIVERT TO STORAGE POND VALVES																
QSP16V0508	3	N	B	PASSIVE	60	B	MO		O	O	AI	PIT	2Y		FNP-1/2-STP-24.14	
												PIT	2Y		FNP-2-STP-24.14	
												PIT	2Y		FNP-1-STP-24.14	
SW RECIRC LINE DIVERT TO STORAGE POND VALVES																

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17HV2229	3	N	B	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-1-STP-23.8	STC see Note 3
												PIT	2Y		FNP-1-STP-23.8	
CCW SUPPLY TO SAMPLE COOLERS																
Q1P17HV3045	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	RF	ROJ-V - 33	FNP-1-STP-45.9	
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM RCP THERMAL BARRIER (PEN 43)																
Q1P17HV3067	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-1-STP-45.9	STC see Note 3
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM EXCESS LETDOWN HX (PEN 46)																
Q1P17HV3095	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-1-STP-45.9	STC see Note 3
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW SUPPLY TO EXCESS LETDOWN HX (PEN 45)																
Q1P17HV3096A	3	N	B	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-23.8	STC see Note 3
												PIT	2Y		FNP-1-STP-23.8	
CCW TO RECYCLE SYS, WASTE GAS SYS, HYDROGEN RECOMBINER																
Q1P17HV3096B	3	N	B	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-1-STP-23.8	STC see Note 3
												PIT	2Y		FNP-1-STP-23.8	
CCW TO RECYCLE SYS, WASTE GAS SYS, HYDROGEN RECOMBINER																

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17HV3184	2	N	A	ACTIVE	3	GL	AO	(D-6)	O	O/C	C	STC	RF	ROJ-V - 33	FNP-1-STP-45.9	
												STO	RF	ROJ - V-33	FNP-1-STP-45.9	
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM RCP THERMAL BARRIER (PEN 43)																
Q1P17HV3443	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-1-STP-45.9	STC see Note 3
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM EXCESS LETDOWN HEAT EXCHANGER																
Q1P17RV3028	3	N	B	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-1-STP-23.8	
												PIT	2Y		FNP-1-STP-23.8	
CCW SURGE TANK VENT																
Q1P17V0001A	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-23.1	
												ETO	Q		FNP-1-STP-23.1	
CCW PUMP DISCHARGE CHECK VALVE																
Q1P17V0001B	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-23.2	
												ETO	Q		FNP-1-STP-23.2	
CCW PUMP DISCHARGE CHECK VALVE																
Q1P17V0001C	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-1-STP-23.3	
												ETO	Q		FNP-1-STP-23.3	
CCW PUMP DISCHARGE CHECK VALVE																
Q1P17V0006A (PSV3040A)	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.24	
CCW HX RELIEF VALVE																

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17V0006B (PSV3040B) CCW HX RELIEF VALVE	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.24	
Q1P17V0006C (PSV3040C) CCW HX RELIEF VALVE	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.24	
Q1P17V0011A (MOV3094A) CCW INLET TO SFP CCW HX LINE ISO VALVE	3	Y	B	PASSIVE	10	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-45.9	
Q1P17V0011B (MOV3094B) CCW INLET TO SFP CCW HX LINE ISO VALVE	3	Y	B	PASSIVE	10	B	MO		O	O	AI	PIT	2Y		FNP-1-STP-45.9	
Q1P17V0029A (MOV3185A) CCW TO RHR HX	3	N	B	ACTIVE	14	B	MO		O/C	O	AI	STO PIT	Q 2Y		FNP-1-STP-23.8 FNP-1-STP-23.8	
Q1P17V0029B (MOV3185B) CCW TO RHR HX	3	N	B	ACTIVE	14	B	MO		O/C	O	AI	STO PIT	Q 2Y		FNP-1-STP-23.8 FNP-1-STP-23.8	
Q1P17V0082 (MOV3052) CCW TO RCP (PEN 42)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC PIT LJ-C	RF 2Y LJ	ROJ-V - 33	FNP-1-STP-45.9 FNP-1-STP-45.9 FNP-1-STP-627	
Q1P17V0083 CCW TO RCP (PEN 42)	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO LJ-C ETC	CVCM LJ CVCM		FNP-1-SOP-23.0 FNP-1-STP-627 FNP-1-STP-627.0	Sec. 9, Note 2

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17V0087A	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-1-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q1P17V0087B	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-1-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q1P17V0087C	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-1-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q1P17V0097 (MOV3046)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC	RF	ROJ-V - 33	FNP-1-STP-45.9	
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM RCP BEARINGS (PEN 44)																
Q1P17V0099 (MOV3182)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC	RF	ROJ-V - 33	FNP-1-STP-45.9	
												PIT	2Y		FNP-1-STP-45.9	
												LJ-C	LJ		FNP-1-STP-627	
CCW RETURN FROM RCP BEARINGS (PEN 44)																
Q1P17V0111	3	N	C	ACTIVE	14	CK	S		O	C	NA	BDTO	CVCM		FNP-1-SOP-23.0 or STP-644.17	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-644.17	
CCW PUMP SUCTION CHECK VALVE																
Q1P17V0115 (PSV3029)	3	N	C	ACTIVE	4 X 6	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.6	
CCW SURGE TANK RELIEF VALVE																

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17V0117A (MOV3031A)	3	Y	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-1-STP-23.8	
												STC	Q		FNP-1-STP-23.8	
												PIT	2Y		FNP-1-STP-23.8	
RMW TO CCW SYSTEM																
Q1P17V0117B (MOV3031B)	3	Y	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-1-STP-23.8	
												STC	Q		FNP-1-STP-23.8	
												PIT	2Y		FNP-1-STP-23.8	
RMW TO CCW SYSTEM																
Q1P17V0121A (MOV3030A)	3	N	B	ACTIVE	2	GL	MO		O/C	C	AI	STC	Q		FNP-1-STP-23.8	
												PIT	2Y		FNP-1-STP-23.8	
DEMIN WATER MAKEUP TO CCW SURGE TANK LINE ISO VALVE																
Q1P17V0121B (MOV3030B)	3	N	B	ACTIVE	2	GL	MO		O/C	C	AI	STC	Q		FNP-1-STP-23.8	
												PIT	2Y		FNP-1-STP-23.8	
DEMIN WATER MAKEUP TO CCW SURGE TANK LINE ISO VALVE																
Q1P17V0126A (PSV3354A)	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.7	
RHR HX RELIEF VALVE																
Q1P17V0126B (PSV3354B)	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.7	
RHR HX RELIEF VALVE																
Q1P17V0149A (PSV3381A)	3	N	C	ACTIVE	1 X 1-1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.25	
RHR PUMP SEAL COOLER RELIEF																
Q1P17V0149B (PSV3381B)	3	N	C	ACTIVE	1 X 1-1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.25	
RHR PUMP SEAL COOLER RELIEF																

FARLEY UNIT 1

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P17V0153 **(PSV3413)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.17	
THERMAL RELIEF VALVE ON CTMT PEN 45																
Q1P17V0154 **(PSV3414)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.17	
THERMAL RELIEF VALVE ON CTMT PEN 46																
Q1P17V0155 **(PSV3415)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.18	
THERMAL RELIEF VALVE ON CTMT PEN 44																
Q1P17V0158 **(PSV3444)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-1-STP-627	
												ETSP	T		FNP-1-STP-628.18	
THERMAL RELIEF VALVE ON CTMT PEN 42																
Q1P17V0159	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO	CVCM		Normal Ops	Sec. 9, Note 2
												ETC	CVCM		FNP-1-STP-627.0	
												LJ-C	LJ		FNP-1-STP-627.0	
CCW SUPPLY TO EXCESS LETDOWN HX (PEN 45)																
Q1P17V0263A	3	N	C	ACTIVE	1	CK	S		C	O	NA	ETSP	T		FNP-1-STP-628.8	
CCW SURGE TANK VACUUM RELIEF																
Q1P17V0263B	3	N	C	ACTIVE	1	CK	S		C	O	NA	ETSP	T		FNP-1-STP-628.8	
CCW SURGE TANK VACUUM RELIEF																
Q1P17V0288	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	Normal Ops		FNP-1-SOP-23	
												ETC	Q		FNP-1-STP-23.8	
CCW RETURN FROM GROSS FAILED FUEL DETECTOR & SAMPLE COOLERS																

FARLEY UNIT 1

P18 - Service Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P18V0001	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-1-STP-627	
SERVICE AIR TO PENETRATION ROOMS AND CONTAINMENT (PEN 47)																
Q1P18V0002	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-1-STP-627	
SERVICE AIR TO PENETRATION ROOMS AND CONTAINMENT (PEN 47)																

FARLEY UNIT 1

P19 - Instrument Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N1P19PSV2228	Aug	Y	C	ACTIVE	3/4	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.10	
BACKUP N2 SUPPLY TO PRESS PORVS																
N1P19V0135	Aug	Y	C	ACTIVE	3/4	CK	S		C	C	NA	ETC	RF		FNP-1-STP-45.11	
INST AIR SUPPLY TO PORVS																
N1P19V0147A	Aug	Y	C	ACTIVE	1/2	CK	S		O/C	C	NA	ETC	RF		FNP-1-STP-22.20	
INST AIR SUPPLY TO AUX STEAM VALVE Q1N12V001A AIR ACCUM																
N1P19V0147B	Aug	Y	C	ACTIVE	1/2	CK	S		O/C	C	NA	ETC	RF		FNP-1-STP-22.20	
INST AIR SUPPLY TO AUX STEAM VALVE Q1N12V001B AIR ACCUM																
Q1P19HV2228	2	N	A	ACTIVE	3/4	GL	AO		C	O/C	C	STO	Q		FNP-1-STP-47.0	
												STC	Q		FNP-1-STP-47.0	
												PIT	2Y		FNP-1-STP-47.0	
												LJ-C	LJ		FNP-1-STP-627	
BACKUP NITROGEN SUPPLY TO PRESSURIZER PORV'S (Pen 97B)																
Q1P19HV3611	2	N	A	ACTIVE	2	GL	AO		O	C	C	STC	RF	ROJ-V - 40	FNP-1-STP-45.0	
												PIT	2Y		FNP-1-STP-45.0	
												LJ-C	LJ		FNP-1-STP-627	
CTMT INSTRUMENT AIR SUPPLY (PEN 48)																
Q1P19V0002	2	N	AC	ACTIVE	2	CK	S		O	C	NA	BDTO	Normal Ops		FNP-1-SOP-31.0	
												ETC	CVCM	ROJ-V - 38	FNP-1-STP-627.0	
												LJ-C	LJ		FNP-1-STP-627.0	
CTMT INSTRUMENT AIR SUPPLY (PEN 48)																

FARLEY UNIT 1

P19 - Instrument Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P19V0004	2	N	AC	ACTIVE	1/2	CK	S		O/C	O/C	NA	ETO	CVCM		FNP-1-STP-45.11	Sec. 9. Note 2
												ETC	CVCM		FNP-1-STP-166 or STP-627.0	
												LJ-C	LJ		FNP-1-STP-627	
BACKUP AIR SUPPLY TO PRESSURIZER PORV'S																
Q1P19V1099	2	N	A	PASSIVE	3/4	GL	M		LC	C	NA	LJ-C	LJ		FNP-1-STP-627	
BACKUP NITROGEN SUPPLY BYPASS TO PORVS																

FARLEY UNIT 1

P23 - Containment Cooling and Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1P23V0002A (MOV3238) CTMT LEAK RATE TEST VALVE	2	N	A	PASSIVE	8	GL	MO		C	C	AI	LJ-C	LJ		FNP-1-STP-627	
Q1P23V0002B (MOV3239) CTMT LEAK RATE TEST VALVE	2	N	A	PASSIVE	8	GL	MO		C	C	AI	LJ-C	LJ		FNP-1-STP-627	

FARLEY UNIT 1
R43 - R43

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1R43V0519	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-9)	C	O	AI	ETO	Q		FNP-1-STP-80.1	
1B DG AIR START SOLENOID																
Q1R43V0520	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-9)	C	O	AI	ETO	Q		FNP-1-STP-80.1	
1B DG AIR START SOLENOID																
Q1R43V0532	Aug	Y	C	ACTIVE	3/4	CK	N/A	(F-5)	O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-1-STP-154.1	
1B DG AIR RECEIVER A AIR DRYER CHECK VALVE																
Q1R43V0533	Aug	Y	C	ACTIVE	3/4	CK	N/A	(F-9)	O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-1-STP-154.1	
1B DG AIR RECEIVER B AIR DRYER CHECK VALVE																
Q1R43V0538	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.9	
1B DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE																
Q1R43V0539	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.9	
1B DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE																
QSR43V0582	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-9)	C	O	AI	ETO	Q		FNP-0-STP-80.1	
1-2A DG AIR START SOLENOID																
QSR43V0583	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-9)	C	O	AI	ETO	Q		FNP-0-STP-80.1	
1-2A DG AIR START SOLENOID																
QSR43V0595	Aug	Y	C	ACTIVE	1	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.1	
1-2A DG AIR START COMPRESSOR A DISCHARGE CHECK VALVE																

FARLEY UNIT 1

R43 - R43

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSR43V0596	Aug	Y	C	ACTIVE	1	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.1	
1-2A DG AIR START COMPRESSOR B DISCHARGE CHECK VALVE																
QSR43V0601	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.0	
1-2A DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE																
QSR43V0602	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.0	
1-2A DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE																
QSR43V0610	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.1	
2C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE																
QSR43V0611	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.1	
2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE																
QSR43V0612	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.1	
1C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE																
QSR43V0613	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-1-STP-628.1	
1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE																
QSR43V0638	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-6)	C	O	AI	ETO	Q		FNP-0-STP-80.17	
2C DG AIR START SOLENOID																
QSR43V0639	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-8)	C	O	AI	ETO	Q		FNP-0-STP-80.17	
2C DG AIR START SOLENOID																
QSR43V0640	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-6)	C	O	AI	ETO	Q		FNP-0-STP-80.2	
1C DG AIR START SOLENOID																

FARLEY UNIT 1

R43 - R43

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSR43V0641	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-8)	C	O	AI	ETO	Q		FNP-0-STP-80.2	
1C DG AIR START SOLENOID																
QSR43V0658	Aug	Y	C	ACTIVE	3/4	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.3	
2C DG AIR RECEIVER B AIR DRYER CHECK VALVE																
QSR43V0659	Aug	Y	C	ACTIVE	3/4	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.3	
2C DG AIR RECEIVER A AIR DRYER CHECK VALVE																
QSR43V0660	Aug	Y	C	ACTIVE	3/4	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.2	
1C DG AIR RECEIVER B AIR DRYER CHECK VALVE																
QSR43V0661	Aug	Y	C	ACTIVE	3/4	CK	S		O/C	C	NA	BDTO	Normal Ops		FNP-0-SOP-38.0	
												ETC	Q		FNP-0-STP-154.2	
1C DG AIR RECEIVER A AIR DRYER CHECK VALVE																

FARLEY UNIT 1

V47 - Non-Radioactive Vent

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSV47V0001A (HV3624) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	14	B	AO		O	C	C	STC PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	STC see Note 3
QSV47V0001B (HV3625) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	14	B	AO		O	C	C	STC PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	STC see Note 3
QSV47V0002A (HV3622) COMPUTER ROOM HVAC	Aug	Y	B	ACTIVE	20	B	AO		O	C	C	STC PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	STC see Note 3
QSV47V0002B (HV3623) COMPUTER ROOM HVAC	Aug	Y	B	ACTIVE	20	B	AO		O	C	C	STC PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	STC see Note 3
QSV47V0003A (HV3626) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	24	B	AO		O	C	C	PIT STC	2Y Q		FNP-0-STP-26.1, 45.0 FNP-0-STP-26.1	STC see Note 3
QSV47V0003B (HV3627) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	24	B	AO		O	C	C	PIT STC	2Y Q		FNP-0-STP-26.1, 45.0 FNP-0-STP-26.1	STC see Note 3

FARLEY UNIT 1

V48 - Spent Fuel Pool Vent & Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q1V48V0001A (HV3538A)	Aug	Y	B	ACTIVE	16	B	AO		O	O/C	C	STC	Q		FNP-1-STP-20.0	
												STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
SPENT FUEL POOL FILTRATION SYS TO PENETRATION RM FILTER UNIT																
Q1V48V0001B (HV3538B)	Aug	Y	B	ACTIVE	16	B	AO		O	O/C	C	STC	Q		FNP-1-STP-20.0	
												STO	Q		FNP-1-STP-20.0	
												PIT	2Y		FNP-1-STP-20.0	
SPENT FUEL POOL FILTRATION SYS TO PENETRATION RM FILTER UNIT																

FARLEY UNIT 1

V49 - Cont. Room HVAC and Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSV49CKDMP001A	Aug	Y	C	ACTIVE	11	CK	S		O	O/C	NA	ETO	18M		FNP-0-STP-26.2	
												ETC	18M		FNP-0-STP-26.2	
HVAC PRESS LINE BACKDRAFT DAMPER (CKDMP001A-A)																
QSV49CKDMP001B	Aug	Y	C	ACTIVE	11	CK	S		O	O/C	NA	ETC	18M		FNP-0-STP-26.2	
												ETO	18M		FNP-0-STP-26.2	
HVAC PRESS LINE BACKDRAFT DAMPER (CKDMP001B-B)																
QSV49V0001A (MOV3478A)	Aug	Y	B	ACTIVE	8	B	MO		C	O	AI	STO	Q		FNP-0-STP-26.1	
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM HVAC																
QSV49V0001B (MOV3478B)	Aug	Y	B	ACTIVE	8	B	MO		C	O	AI	STO	Q		FNP-0-STP-26.1	
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM HVAC																
QSV49V0003A (HV3628)	Aug	Y	B	ACTIVE	10	B	AO		O	C	C	STC	Q		FNP-0-STP-26.1	STC see Note 3
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM EXHAUST ISOLATION VALVE																
QSV49V0003B (HV3629)	Aug	Y	B	ACTIVE	10	B	AO		O	C	C	STC	Q		FNP-0-STP-26.1	STC see Note 3
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM EXHAUST ISOLATION VALVE																
QSV49V0004A (HV3649A)	Aug	Y	B	ACTIVE	20	B	AO		C	C	C	STC	Q		FNP-0-STP-26.1	STC see Note 3
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM HVAC																
QSV49V0004B (HV3649B)	Aug	Y	B	ACTIVE	20	B	AO		C	C	C	STC	Q		FNP-0-STP-26.1	STC see Note 3
												PIT	2Y		FNP-0-STP-26.1, 45.0	
CONTROL ROOM HVAC																

FARLEY UNIT 1

V49 - Cont. Room HVAC and Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSV49V0004C (HV3649C) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	20	B	AO		C	C	C	STC PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	STC see Note 3
QSV49V0008 (MOV2769A) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	8	B	MO		C	O	AI	STO PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	
QSV49V0009 (MOV2769B) CONTROL ROOM HVAC	Aug	Y	B	ACTIVE	8	B	MO		C	O	AI	STO PIT	Q 2Y		FNP-0-STP-26.1 FNP-0-STP-26.1, 45.0	

FARLEY UNIT 1

Y52 - Diesel Generator Fuel Oil Transfer

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSY52V0506A	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.1	
												ETO	18M		FNP-0-STP-81.1	
1-2A DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0506B	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.1	
												ETO	18M		FNP-0-STP-81.1	
1-2A DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0507A	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.3	
												ETO	18M		FNP-0-STP-81.3	
1C DG FUEL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0507B	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.3	
												ETO	18M		FNP-0-STP-81.3	
1C DG FUEL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0508A	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-2-STP-81.5	
												ETO	18M		FNP-2-STP-81.5	
2B DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0508B	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-2-STP-81.5	
												ETO	18M		FNP-2-STP-81.5	
2B DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0509A	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-1-STP-81.2	
												ETO	18M		FNP-1-STP-81.2	
1B DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0509B	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-1-STP-81.2	
												ETO	18M		FNP-1-STP-81.2	
1B DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																

FARLEY UNIT 1

Y52 - Diesel Generator Fuel Oil Transfer

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
QSY52V0510A	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.4	
												ETO	18M		FNP-0-STP-81.4	
2C DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																
QSY52V0510B	Aug	Y	C	ACTIVE	1 1/2	CK	S		O/C	O/C	NA	ETC	18M		FNP-0-STP-81.4	
												ETO	18M		FNP-0-STP-81.4	
2C DG FUEL OIL TRANSFER PUMP DISCHARGE CHECK VALVE																

FARLEY UNIT 2

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2B13SV2213A (HV001)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												PIT	2Y		FNP-2-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q2B13SV2213B (HV003)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												PIT	2Y		FNP-2-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q2B13SV2214A (HV002)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												PIT	2Y		FNP-2-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q2B13SV2214B (HV004)	2	N	B	ACTIVE	1	GL	SO		C	O/C	C	STO	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												STC	CSD/RF	CSJ-V - 01	FNP-2-STP-45.2	
												PIT	2Y		FNP-2-STP-45.2	
REACTOR VESSEL HEAD VENT																
Q2B13V0027A (MOV8000A)	1	N	B	ACTIVE	3	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
PRESSURIZER PORV BLOCK VALVE																

FARLEY UNIT 2

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2B13V0027B (MOV8000B)	1	N	B	ACTIVE	3	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
PRESSURIZER PORV BLOCK VALVE																
Q2B13V0031A	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q2B13V0031B	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q2B13V0031C	1	N	C	ACTIVE	6X6	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-604, STP-604.1	Test frequency not to exceed 5 years test to test
PRESSURIZER SAFETY																
Q2B13V0037 (HV8047)	2	N	A	ACTIVE	1	D	AO		O	C	C	LJ-C	LJ		FNP-2-STP-627	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
PRT N2 SUPPLY ISO VALVE (PEN 64A)																
Q2B13V0038 (V8046)	2	N	AC	ACTIVE	3	CK	S		C	C	NA	BDTO	CVCM		FNP-2-STP-627	Sec. 9, Note 2
												LJ-C	CVCM		FNP-2-STP-627	
RMW TO PRT ISO CHECK VALVE (PEN 30)																

FARLEY UNIT 2

B13 - Reactor Coolant

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2B13V0039 **(HV8033)**	2	N	A	ACTIVE	1	D	AO		O	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												LJ-C	LJ		FNP-2-STP-627	
												PIT	2Y		FNP-2-STP-47.0	
PRT N2 SUPPLY (PEN 64A)																
Q2B13V0040 **(HV8028)**	2	N	A	ACTIVE	3	D	AO		C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												LJ-C	LJ		FNP-2-STP-627	
												PIT	2Y		FNP-2-STP-47.0	
RMW TO PRT ISO VALVE (PEN 30)																
Q2B13V0053 **(PCV445A)**	1	N	B	ACTIVE	3	GL	AO	(D-1)	C	O/C	C	STC	RF		FNP-2-STP-45.11	
												STO	RF		FNP-2-STP-45.11	
												PIT	2Y		FNP-2-STP-45.11	
PRESSURIZER PORV																
Q2B13V0054 **(V8092)**	2	N	AC	ACTIVE	2	CK	S		C	O/C	NA	LJ-C	CVCM		FNP-2-STP-627	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-644.14	
CVCS CHARGING PUMP RELIEF VALVE DISCHARGE TO PRT (PEN 59)																
Q2B13V0061 **(PCV444B)**	1	N	B	ACTIVE	3	GL	AO	(E-1)	C	O/C	C	STC	CSD/RF		FNP-2-STP-45.11	
												STO	RF		FNP-2-STP-45.11	
												PIT	2Y		FNP-2-STP-45.11	
PRESSURIZER PORV																
Q2B13V0110	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.20	
REACTOR MAKEUP WATER SYSTEM (PEN #30) RELIEF VALVE																

FARLEY UNIT 2

C22 /N21 - Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2C22FCV478	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q2C22FCV479	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q2C22FCV488	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q2C22FCV489	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q2C22FCV498	Aug	Y	B	ACTIVE	14	A	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR																
Q2C22FCV499	Aug	Y	B	ACTIVE	6	GA	AO		O	C	C	STC	CSD/RF		FNP-2-STP-46.0	
												PIT	2Y		FNP-2-STP-46.0	
MAIN FEEDWATER REGULATOR BYPASS																
Q2N21V0001A (MOV3232A)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-2-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-2-STP-45.10	
												PIT	2Y		FNP-2-STP-45.10	
MAIN FEEDWATER SUPPLY																

FARLEY UNIT 2

C22 /N21 - Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2N21V0001B (MOV3232B)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-2-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-2-STP-45.10	
												PIT	2Y		FNP-2-STP-45.10	
MAIN FEEDWATER SUPPLY																
Q2N21V0001C (MOV3232C)	2	N	BC	ACTIVE	14	SC	MO/S		O	C	NA	BDTO	Normal Ops		FNP-2-SOP-21.0	
												STC	CSD/RF	CSJ-V - 14	FNP-2-STP-45.10	
												PIT	2Y		FNP-2-STP-45.10	
MAIN FEEDWATER SUPPLY																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0001A (MOV8701A)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-2-STP-45.5	STC see Note 3
												STC	CSD/RF	CSJ-V - 02	FNP-2-STP-45.5	
												PIT	2Y		FNP-2-STP-45.5	
												LTA	LA		FNP-2-STP-158	
2A RHR PUMP SUCTION FROM RCS (HL) (PEN 16)																
Q2E11V0001B (MOV8702A)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 02	FNP-2-STP-45.5	STC see Note 3
												STC	CSD/RF	CSJ-V - 02	FNP-2-STP-45.5	
												PIT	2Y		FNP-2-STP-45.5	
												LTA	LA		FNP-2-STP-158	
2B RHR PUMP SUCTION FROM RCS (HL) (PEN 18)																
Q2E11V0009A (MOV8706A)	2	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	Q/CSD	CSJ-V - 04	FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
CHG PUMP SUCTION FROM RHR HX A																
Q2E11V0009B (MOV8706B)	2	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	Q/CSD	CSJ-V - 04	FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
CHG PUMP SUCTION FROM RHR HX B																
Q2E11V0015A (V8708A)	2	N	C	ACTIVE	3X4	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.0	
A RHR PUMP SUCTION RELIEF																
Q2E11V0015B (V8708B)	2	N	C	ACTIVE	3X4	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.0	
B RHR PUMP SUCTION RELIEF																

FARLEY UNIT 2
E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0016A (MOV8701B)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V-02	FNP-2-STP-45.5	
												STC	CSD/RF	CSJ-V-02	FNP-2-STP-45.5	
												PIT	2Y		FNP-2-STP-45.5	
												LTA	LA		FNP-2-STP-158	
2A RHR PUMP SUCTION FROM RCS (HL)																
Q2E11V0016B (MOV8702B)	1	N	A	ACTIVE	12	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V-02	FNP-2-STP-45.5	
												STC	CSD/RF	CSJ-V-02	FNP-2-STP-45.5	
												PIT	2Y		FNP-2-STP-45.5	
												LTA	LA		FNP-2-STP-158	
2B RHR PUMP SUCTION FROM RCS (HL)																
Q2E11V0021A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
RHR PUMP LHSI DISCHARGE TO (CL) RCS																
Q2E11V0021B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
RHR PUMP LHSI DISCHARGE TO (CL) RCS																
Q2E11V0021C	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
RHR PUMP LHSI DISCHARGE TO (CL) RCS																

FARLEY UNIT 2
E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0023A **(MOV8888A)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	
												STO	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2B HRH HX TO HCS (CL) ISO																
Q2E11V0023B **(MOV8888B)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	
												STO	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2A RHR HX TO RCS (CL) ISO																
Q2E11V0024A **(MOV8887A)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	
												STO	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
RHR TO RCS XCONN																
Q2E11V0024B **(MOV8887B)**	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	
												STO	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
RHR TO RCS XCONN																
Q2E11V0025A **(MOV8811A)**	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-11.6	
												STC	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2A RHR PUMP SUCTION FROM CTMT SUMP (PEN 11)																
Q2E11V0025B **(MOV8811B)**	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-11.6	
												STC	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2B RHR PUMP SUCTION FROM CTMT SUMP (PEN 10)																

E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0026A (MOV8812A)	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-11.6	
												STC	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2A RHR PUMP SUCTION FROM CTMT SUMP (PEN 11)																
Q2E11V0026B (MOV8812B)	2	N	B	ACTIVE	14	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-11.6	
												STC	Q		FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
2B RHR PUMP SUCTION FROM CTMT SUMP (PEN 10)																
Q2E11V0027A (MOV8809A)	2	N	B	ACTIVE	14	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-11.6	
2A RHR PUMP SUCTION FROM RWST																
Q2E11V0027B (MOV8809B)	2	N	B	ACTIVE	14	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-11.6	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-11.6	
2B RHR PUMP SUCTION FROM RWST																
Q2E11V0028	2	N	C	ACTIVE	14	CK	S		C	O/C	NA	ETC	CVCM	ROJ-V - 06	FNP-2-STP-11.17	
												ETO	Q		FNP-2-STP-11.1 or STP-11.2	
RHR PUMP SUCTION FROM RWST																
Q2E11V0032A (HCV603A)	2	N	B	PASSIVE	10	B	AO		O	O	O	PIT	2Y		FNP-2-STP-11.6	
RHR HEAT EXCHANGER DISCHARGE VALVES																
Q2E11V0032B (HCV603B)	2	N	B	PASSIVE	10	B	AO		O	O	O	PIT	2Y		FNP-2-STP-11.6	
RHR HEAT EXCHANGER DISCHARGE VALVES																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0033A (FCV605A) RHR HEAT EXCHANGER BYPASS FLOW CONTROL VALVES	2	N	B	PASSIVE	8	B	AO		C	C	C	PIT	2Y		FNP-2-STP-11.6	
Q2E11V0033B (FCV605B) RHR HEAT EXCHANGER BYPASS FLOW CONTROL VALVES	2	N	B	PASSIVE	8	B	AO		C	C	C	PIT	2Y		FNP-2-STP-11.6	
Q2E11V0037A (FCV602A) 2A RHR PUMP MINIFLOW	2	N	B	ACTIVE	3	GA	MO		O	C	AI	STC PIT	Q 2Y		FNP-2-STP-11.6 FNP-2-STP-11.6	
Q2E11V0037B (FCV602B) 2B RHR PUMP MINIFLOW	2	N	B	ACTIVE	3	GA	MO		O	C	AI	STC PIT	Q 2Y		FNP-2-STP-11.6 FNP-2-STP-11.6	
Q2E11V0038A 2A RHR DISCHARGE TO RCS	2	N	C	ACTIVE	10	CK	S		C	O/C	NA	ETO ETC	Q Q		FNP-2-STP-11.1 FNP-2-STP-11.2	
Q2E11V0038B 2B RHR DISCHARGE TO RCS	2	N	C	ACTIVE	10	CK	S		C	O/C	NA	ETC ETO	Q Q		FNP-2-STP-11.1 FNP-2-STP-11.2	
Q2E11V0039A 2B RHR HX DISCHARGE RELIEF (PEN 59)	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C ETSP	LJ T		FNP-2-STP-627 FNP-2-STP-628.1	
Q2E11V0039B 2A RHR HX DISCHARGE RELIEF (PEN 59)	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C ETSP	LJ T		FNP-2-STP-627 FNP-2-STP-628.1	

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0040	2	N	AC	ACTIVE	.75X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.1	
RHR TO HL RELIEF (PEN 59)																
Q2E11V0042A	2	N	AC	ACTIVE	10	CK	S		C	O/C	NA	ETO	CSD/RF	ROJ-V - 03	FNP-2-STP-11.4	
												ETC	RF	ROJ-V - 03	FNP-2-STP-158	
												LTA	LT		FNP-2-STP-158	
RHR PUMP DISC TO SIS INJECTION CL																
Q2E11V0042B	2	N	AC	ACTIVE	10	CK	S		C	O/C	NA	ETO	CSD/RF	ROJ-V - 03	FNP-2-STP-11.3	
												ETC	RF	ROJ-V - 03	FNP-2-STP-158	
												LTA	LT		FNP-2-STP-158	
RHR PUMP DISC TO SIS INJECTION CL																
Q2E11V0044 (MOV8889)	2	N	B	ACTIVE	10	GA	MO		C	O/C	AI	STO	Q/CSD/RF	CSJ-V - 03	FNP-2-STP-11.6	
												STC	Q/CSD/RF	CSJ-V - 03	FNP-2-STP-11.6	
												PIT	2Y		FNP-2-STP-11.6	
RHR HX DISCHARGE TO RCS(HL)																
Q2E11V0051A (V8998A)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-168	
RCS LOOP LHSI CL																
Q2E11V0051B (V8998B)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-168	
RCS LOOP LHSI CL																

FARLEY UNIT 2

E11 - E11

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E11V0051C (V8998C)	1	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-168	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-168	
RCS LOOP LHSI CL																

FARLEY UNIT 2

E12 - Reactor Cavity Cooling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E12V0001A (HV3999A)	Aug	Y	B	ACTIVE	36	B	AO		O	C	C	STC	CSD/RF		FNP-2-STP-45.11	STC see Note 3
												PIT	2Y		FNP-2-STP-45.11	
2A RX CAVITY COOLING DAMPER																
Q2E12V0001B (HV3999B)	Aug	Y	B	ACTIVE	36	B	AO		O	C	C	STC	CSD/RF		FNP-2-STP-45.11	STC see Note 3
												PIT	2Y		FNP-2-STP-45.11	
2B RX CAVITY COOLING DAMPER																

FARLEY UNIT 2

E13 - Containment Spray

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E13V0002A **(V8822A)**	2	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-640.0	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-640.0, FNP-2-STP-16.10	
2A CTMT SPRAY PUMP DISCHARGE																
Q2E13V0002B **(V8822B)**	2	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-640.0	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-640.0	
2B CTMT SPRAY PUMP DISCHARGE																
Q2E13V0003A **(MOV8826A)**	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2A SUCTION FROM CTMT SUMP (PEN 94)																
Q2E13V0003B **(MOV8826B)**	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2B SUCTION FROM CTMT SUMP (PEN 93)																
Q2E13V0004A **(MOV8827A)**	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2A SUCTION FROM CTMT SUMP (PEN94)																
Q2E13V0004B **(MOV8827B)**	2	N	B	ACTIVE	12	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2B SUCTION FROM CTMT SUMP (PEN 93)																

FARLEY UNIT 2

E13 - Containment Spray

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E13V0005A (MOV8820A)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2A DISCHARGE																
Q2E13V0005B (MOV8820B)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	Q		FNP-2-STP-16.7	
												STC	Q		FNP-2-STP-16.7	
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2B DISCHARGE																
Q2E13V0012A (MOV8817A)	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-16.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2A SUCTION FROM RWST																
Q2E13V0012B (MOV8817B)	2	N	B	ACTIVE	10	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-16.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-16.7	
CTMT SPRAY PUMP 2B SUCTION FROM RWST																
Q2E13V0014 (V8816)	2	N	A/C	ACTIVE	12	CK	S	(E-10)	C	O/C	N/A	ETO	CVCM		FNP-2-STP-16.10, FNP-2-STP-16.11, FNP-2-STP-640.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-169 or FNP-2-STP-640.1	
CTMT SPRAY PUMP SUCTION FROM RWST																

FARLEY UNIT 2

E14 - Containment Isolation

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E14HV3657	2	N	A	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE FROM R-11/12 DISCH TO CTMT (PEN 55)																
Q2E14HV3658	2	N	A	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE TO R-11/12 (PEN 54)																
Q2E14V0001	2	N	AC	ACTIVE	1	CK	S		C	O/C	NA	LJ-C	CVCM		FNP-2-STP-627	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-742	
CTMT AIR SAMPLE (PEN 55)																
Q2E14V0002 (MOV3660)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE TO R-11/12 (PEN 54)																
Q2E14V0003 (MOV3318A)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT DIFFERENTIAL PRESSURE INSTRUMENT ISOLATION (PEN 70)																
Q2E14V0004 (MOV3318B)	2	N	A	ACTIVE	1	GL	MO		O	C	AI	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT DIFFERENTIAL PRESSURE INSTRUMENT ISOLATION (PEN 70)																

FARLEY UNIT 2

E15 - Penetration Room Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E15CKDMP002A	Aug	Y	C	ACTIVE	14	CK	S		C	O/C	C	ETC	Q		FNP-2-STP-20.0	
												ETO	Q		FNP-2-STP-20.0	
PRF RECIRC FAN 2A CHECK DAMPER																
Q2E15CKDMP002B	Aug	Y	C	ACTIVE	14	CK	S		C	O/C	C	ETC	Q		FNP-2-STP-20.0	
												ETO	Q		FNP-2-STP-20.0	
PRF RECIRC FAN 2B CHECK DAMPER																
Q2E15CKDMP003A	Aug	Y	C	ACTIVE	12	CK	S		C	O/C	C	ETC	Q		FNP-2-STP-20.0	
												ETO	Q		FNP-2-STP-20.0	
PRF EXHAUST FAN A CHECK DAMPER																
Q2E15CKDMP003B	Aug	Y	C	ACTIVE	12	CK	S		C	O/C	C	ETC	Q		FNP-2-STP-20.0	
												ETO	Q		FNP-2-STP-20.0	
PRF EXHAUST FAN B CHECK DAMPER																
Q2E15V0001A (MOV3361B)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2B PRF RECIRC FAN DAMPER																
Q2E15V0001B (MOV3361A)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2A PRF RECIRC FAN DAMPER																
Q2E15V0001C (MOV3362B)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2B PRF SUCT DAMPER																
Q2E15V0001D (MOV3362A)	Aug	Y	B	ACTIVE	18	B	MO		C	O	AI	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2A PRF SUCT DAMPER																

FARLEY UNIT 2

E15 - Penetration Room Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E15V0002A (HV3356A)	Aug	Y	B	ACTIVE	14	B	AO		C	O	O	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2A PRF RECIR FAN EXHAUST DAMPER																
Q2E15V0002B (HV3356B)	Aug	Y	B	ACTIVE	14	B	AO		C	O	O	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2B PRF RECIR FAN EXHAUST DAMPER																
Q2E15V0003A (HV3357A)	Aug	Y	B	ACTIVE	12	B	AO		C	O	O	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2A PRF EXHAUST FAN DISCHARGE DAMPER																
Q2E15V0003B (HV3357B)	Aug	Y	B	ACTIVE	12	B	AO		C	O	O	STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
2B PRF EXHAUST FAN DISCH DAMPER																

FARLEY UNIT 2
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0016A (MOV8803A)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STC	RF	ROJ-V - 14	FNP-2-STP-45.4	STC, STO-Note 3
												STO	RF	ROJ-V - 14	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
HHSI TO RCS (CL) ISOLATION																
Q2E21V0016B (MOV8803B)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STC	RF	ROJ-V - 14	FNP-2-STP-45.4	STC, STO-Note 3
												STO	RF	ROJ-V - 14	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
HHSI TO RCS (CL) ISOLATION																
Q2E21V0026	2	N	A/C	ACTIVE	8	CK	S	(E-11)	C	O/C	NA	ETC	CVCM	ROJ-V - 10	FNP-2-STP-4.10	
												ETO	CVCM	ROJ-V - 10	FNP-2-STP-40.7, FNP-2-STP-4.11	
RWST TO CHG PUMP SUCT																
Q2E21V0032A	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q2E21V0032B	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0032C	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q2E21V0037A	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q2E21V0037B	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q2E21V0037C	1	N	AC	ACTIVE	12	CK	S		C	O/C	NA	LTA	LA		FNP-2-STP-32.1	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-32.1	
												ETO	CVCM		FNP-2-STP-170 or STP-644.7	
ACCUMULATOR TANK DISCH TO RCS(CL)																
Q2E21V0049 (HV8871)	2	N	A	ACTIVE	3/4	GL	AO		C	C	C	STC	Q		FNP-2-STP-10.3	STC see Note 3
												PIT	2Y		FNP-2-STP-10.3	
												LJ-C	LJ		FNP-2-STP-627	
SIS ACCUMULATOR TEST TO RWST (PEN 29)																
Q2E21V0050 (HV8961)	2	N	A	ACTIVE	3/4	GL	AO		C	C	C	STC	Q		FNP-2-STP-10.3	STC see Note 3
												PIT	2Y		FNP-2-STP-10.3	
												LJ-C	LJ		FNP-2-STP-627	
SIS ACCUMULATOR TEST TO RWST (PEN 29)																

FARLEY UNIT 2
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0052	2	N	AC	ACTIVE	1	CK	S		C	C	N/A	BDTO	CVCM		FNP-2-SOP-8.0	Sec. 9, Note 2
												LJ-C	CVCM		FNP-2-STP-627	
SIS ACCUMULATOR FILL (PEN 49)																
Q2E21V0058	2	N	AC	ACTIVE	1	CK	S		C	C	NA	BDTO	CVCM		FNP-2-SOP-8.0	Sec. 9, Note 2
												LJ-C	CVCM		FNP-2-STP-627	
NITROGEN SUPPLY TO ACCUMULATOR TANKS (PEN 63)																
Q2E21V0059 (HV8880)	2	N	A	ACTIVE	1	GL	AO		C	C	C	STC	Q		FNP-2-STP-10.3	STC see Note 3
												PIT	2Y		FNP-2-STP-10.3	
												LJ-C	LJ		FNP-2-STP-627	
NITROGEN SUPPLY TO ACCUMULATOR TANKS (PEN 63)																
Q2E21V0062A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																
Q2E21V0062B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																
Q2E21V0062C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI TO RCS(CL)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0063 (MOV8885)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STO	RF	ROJ-V - 14	FNP-2-STP-45.12	
												STC	RF	ROJ-V - 14	FNP-2-STP-45.12	
												PIT	2Y		FNP-2-STP-45.12	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q2E21V0066A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q2E21V0066B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q2E21V0066C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
CHG (HHSI) PUMPS DISCH TO RCS(CL)																
Q2E21V0068 (MOV8886)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STC	RF	ROJ-V - 14	FNP-2-STP-45.4	
												STO	RF	ROJ-V - 14	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
CHG (HHSI) PUMP DISCH TO RCS(HL)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0072 (MOV8884)	2	N	B	ACTIVE	3	GA	MO		C	O/C	AI	STO	RF	ROJ-V - 14	FNP-2-STP-45.12	
												STC	RF	ROJ-V - 14	FNP-2-STP-45.12	
												PIT	2Y		FNP-2-STP-45.12	
CHG (HHSI) PUMP DISCH TO RCS(HL)																
Q2E21V0076A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
RHR LHSI TO A RCS HL																
Q2E21V0076B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
RHR LHSI TO B RCS HL																
Q2E21V0077A	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
HHSI/LHSI AND RHR TO RCS HL LOOP 1																
Q2E21V0077B	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-168	
HHSI/LHSI AND RHR TO RCS HL LOOP 2																
Q2E21V0077C	1	N	AC	ACTIVE	6	CK	S		C	O/C	NA	ETC	CVCM		FNP-2-STP-158	Sec. 9, Note 2
												LTA	LA		FNP-2-STP-158	
												ETO	CVCM		FNP-2-STP-4.11 or STP-40.7 or STP-40.8 or STP-4.12	
HHSI/LHSI AND RHR TO RCS HL LOOP 3																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0078A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q2E21V0078B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q2E21V0078C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q2E21V0079A	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q2E21V0079B	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																
Q2E21V0079C	1	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-644.14	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-4.11/4.12 or STP-40.7 or STP-40.8	
HHSI PUMPS DISCHARGE TO RCS LOOPS HL																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0091 **(HV8860)**	2	N	A	ACTIVE	1	GL	AO		C	C	C	STC	Q		FNP-2-STP-10.3	STC see Note 3
												PIT	2Y		FNP-2-STP-10.3	
												LJ-C	LJ		FNP-2-STP-627	
SIS ACCUMULATOR TANKS FILL (PEN 49)																
Q2E21V0115A	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-2-STP-166	
												ETO	Q		FNP-2-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RC PUMP (PEN 27)																
Q2E21V0115B	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-2-STP-166	
												ETO	Q		FNP-2-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RC PUMP (PEN 25)																
Q2E21V0115C	2	N	AC	ACTIVE	2	CK	S		O	O/C	NA	LJ-C	LT		None	
												ETC	CVCM	ROJ-V - 15	FNP-2-STP-166	
												ETO	Q		FNP-2-STP-8.0 or STP-8.1	
CVCS SEAL INJECTION TO RC PUMP (PEN 26)																
Q2E21V0119	2	N	AC	ACTIVE	3	CK	S		O	O/C	NA	ETO	CVCM		FNP-2-STP-4.1, 4.2, 4.2	Sec. 9, Note 2
												LJ-C	LJ		FNP-2-STP-627	
												ETC	CVCM		FNP-2-STP-627.0	
CVCS CHARGING PUMP DISCHARGE TO REGENERATIVE HX (PEN 24)																
Q2E21V0121A	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-2-STP-644.0	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-644.0	
2A CHG PUMP MIN FLOW LINE CHECK VALVE																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0121B	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-2-STP-644.0	Sec. 9. Note 2
												ETO	CVCM		FNP-2-STP-644.0	
2B CHG PUMP MIN FLOW LINE CHECK VALVE																
Q2E21V0121C	2	N	C	ACTIVE	2	CK	S		O/C	O/C	NA	ETC	CVCM		FNP-2-STP-644.0	Sec. 9, Note 2
												ETO	CVCM		FNP-2-STP-644.0	
2C CHG PUMP MIN FLOW LINE CHECK VALVE																
Q2E21V0122A	2	N	AC	ACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-4.1	
												ETO	RF	ROJ-V - 16	FNP-2-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
2A CHARGING PUMP DISCHARGE																
Q2E21V0122B	2	N	AC	ACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-4.2	
												ETO	RF	ROJ-V - 16	FNP-2-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
2B CHARGING PUMP DISCHARGE																
Q2E21V0122C	2	N	AC	ACTIVE	3	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-4.3	
												ETO	RF	ROJ-V - 16	FNP-2-STP-4.11 or STP-4.12 or STP-40.7 or STP-40.8	
2C CHARGING PUMP DISCHARGE																
Q2E21V0210	2	N	C	ACTIVE	2	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-4.10 or STP-644.14	
												ETO	CVCM	CSJ-V - 07	FNP-2-STP-10.4	
CVCS BA FILTER TO CHARGING PUMP SUCTION																

FARLEY UNIT 2
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0213	2	N	AC	ACTIVE	3/4	CK	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	Sec. 9. Note 2
												ETC	CVCM		FNP-2-STP-627.0	
												ETO	CVCM		FNP-2-STP-627.0	
RCP SEAL TO SEAL WATER HX (PEN 28)																
Q2E21V0220A	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETO	CSD/RF	CSJ-V - 10	FNP-2-STP-10.4, STP-2.6, STP-2.8	
												ETC	Q		FNP-2-STP-2.7 & 2.9	
BORON TRANSFER PUMP DISCHARGE LINE CHECK VALVE																
Q2E21V0220B	3	N	C	ACTIVE	2	CK	S		C	O/C	NA	ETO	CSD/RF	CSJ-V - 10	FNP-2-STP-10.4, STP-2.7, STP-2.9	
												ETC	Q		FNP-2-STP-2.6 & 2.8	
BORON TRANSFER PUMP DISCHARGE LINE CHECK VALVE																
Q2E21V0249A (MOV8112)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	RF	ROJ-V - 17	FNP-2-STP-45.12	STC see Note 3
												PIT	2Y		FNP-2-STP-45.12	
												LJ-C	LJ		FNP-2-STP-627	
RCP SEAL WATER RETURN (PEN 28)																
Q2E21V0249B (MOV8100)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	RF	ROJ-V - 17	FNP-2-STP-45.12	STC see Note 3
												PIT	2Y		FNP-2-STP-45.12	
												LJ-C	LJ		FNP-2-STP-627	
RCP SEAL WATER RETURN (PEN 28)																
Q2E21V0251	2	N	C	ACTIVE	2X3	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.12	
RCP SEAL WATER RETURN LINE RELIEF VALVE																

E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2E21V0253A (HV8149A)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-2-STP-45.1	STC- Note 3, Note 4
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
LETDOWN ORIFICE ISO (PEN 23)																
Q2E21V0253B (HV8149B)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-2-STP-45.1	STC- Note 3, Note 4
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
LETDOWN ORIFICE ISO (PEN 23)																
Q2E21V0253C (HV8149C)	2	N	A	ACTIVE	2	GL	AO		O/C	C	C	STC	CSD/RF	CSJ-V - 06	FNP-2-STP-45.1	STC- Note 3, Note 4
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
LETDOWN ORIFICE ISO (PEN 23)																
Q2E21V0254 (HV8152)	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-2-STP-45.1	STC see Note 3
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
LETDOWN LINE CTMT ISO (PEN 23)																
Q2E21V0255	2	N	AC	ACTIVE	2X3	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.11	
LETDOWN ORIFICES OULET RELIEF VALVE (PEN 23)																
Q2E21V0257 (MOV8107)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 08	FNP-2-STP-45.1	STC see Note 3
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
CVCS CHG PUMP DISCH TO REGENERATIVE HX (PEN 24)																

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0258 (MOV8108)	2	N	A	ACTIVE	3	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 08	FNP-2-STP-45.1	STC see Note 3
												PIT	2Y		FNP-2-STP-45.1	
												LJ-C	LJ		FNP-2-STP-627	
CVCS CHG PUMP DISCH TO REGENERATIVE HX (PEN 24)																
Q2E21V0259A (MOV8109A)	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-2-STP-4.1 or STP-4.11 or STP-4.12	
												STO	Q		FNP-2-STP-4.1 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-2-STP-4.1 or STP-4.11 or STP-4.12	
CHARGING PUMP MINI FLOW LINE ISO VALVE																
Q2E21V0259B (MOV8109B)	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-2-STP-4.2 or STP-4.11 or STP-4.12	
												STO	Q		FNP-2-STP-4.2 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-2-STP-4.2 or STP-4.11 or STP-4.12	
CHARGING PUMP MINI FLOW LINE ISO VALVE																
Q2E21V0259C (MOV8109C)	2	N	B	ACTIVE	2	GL	MO		O	O/C	AI	STC	Q		FNP-2-STP-4.3 or STP-4.11 or STP-4.12	
												STO	Q		FNP-2-STP-4.3 or STP-4.11 or STP-4.12	
												PIT	2Y		FNP-2-STP-4.3 or STP-4.11 or STP-4.12	
CHARGING PUMP MINI FLOW LINE ISO VALVE																
Q2E21V0263A	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.14	
0.75 IN RELIEF-SIS/RHR HX TO CHG PMPS SUCT (PEN 59)																
Q2E21V0263B	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.14	
0.75 IN RELIEF-SIS/RHR HX TO CHG PMPS SUCT (PEN 59)																

FARLEY UNIT 2
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0264 **(MOV8104)**	2	N	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-2-STP-10.5	
												STC	Q		FNP-2-STP-10.5	
												PIT	2Y		FNP-2-STP-10.5	
EMERGENCY BORATE TO CHG PUMP																
Q2E21V0265 **(MOV8106)**	2	N	B	ACTIVE	3	GL	MO		O	O/C	AI	STC	CSD/RF	CSJ-V - 11	FNP-2-STP-45.1	
												STO	CSD/RF	CSJ-V - 11	FNP-2-STP-45.1	
												PIT	2Y		FNP-2-STP-45.1	
CHARGING PUMP MINI FLOW COMMON LINE ISO VALVE																
Q2E21V0324A **(MOV8130A)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q2E21V0324B **(MOV8130B)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q2E21V0325A **(MOV8131A)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																
Q2E21V0325B **(MOV8131B)**	2	N	B	ACTIVE	8	GA	MO		O	O/C	AI	STC	Q		FNP-2-STP-10.3	
												STO	Q		FNP-2-STP-10.3	
												PIT	2Y		FNP-2-STP-10.3	
CHG PUMP SUCTION HEADER ISOLATION VALVE																

FARLEY UNIT 2

E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2E21V0326A (MOV8132A)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-2-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
CHG PUMP DISCHARGE																
Q2E21V0326B (MOV8132B)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-2-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
CHG PUMP DISCHARGE																
Q2E21V0327A (MOV8133A)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-2-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
CHG PUMP DISCHARGE																
Q2E21V0327B (MOV8133B)	2	N	B	ACTIVE	4	GA	MO		O	O/C	AI	STC	RF	ROJ-V - 22	FNP-2-STP-45.4	
												STO	RF	ROJ-V - 22	FNP-2-STP-45.4	
												PIT	2Y		FNP-2-STP-45.4	
CHG PUMP DISCHARGE																
Q2E21V0336A (LCV115B)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	STC, STO-Note 3
												STC	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	
												PIT	2Y		FNP-2-STP-45.1	
CHG PUMP SUCTION FROM RWST																

FARLEY UNIT 2
E21 - E21

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E21V0336B (LCV115D)	2	N	B	ACTIVE	8	GA	MO		C	O/C	AI	STO	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	STC, STO-Note 3
												STC	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	
												PIT	2Y		FNP-2-STP-45.1	
CHG PUMP SUCTION FROM RWST																
Q2E21V0376A (LCV115C)	2	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	STC see Note 3
												PIT	2Y		FNP-2-STP-45.1	
VCT OUTLET ISO																
Q2E21V0376B (LCV115E)	2	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	CSD/RF	CSJ-V - 09	FNP-2-STP-45.1	STC see Note 3
												PIT	2Y		FNP-2-STP-45.1	
VCT OUTLET ISO																
Q2E21V0565A (HV8175A)	2	N	B	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-2-STP-45.1	
												PIT	2Y		FNP-2-STP-45.1	
CVCS LETDOWN LINE ISO																
Q2E21V0565B (HV8175B)	2	N	B	ACTIVE	3	GL	AO		O	C	C	STC	CSD/RF	CSJ-V - 08	FNP-2-STP-45.1	
												PIT	2Y		FNP-2-STP-45.1	
CVCS LETDOWN LINE PENE RM ISO																

FARLEY UNIT 2

E22 - Reactor Cavity Post-LOCA Dilution

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E22V0001A (MOV3872A)	Aug	Y	B	ACTIVE	10	GA	MO		C	O	AI	STO	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
2A RX CAVITY H2 DILUTION FAN DAMPER																
Q2E22V0001B (MOV3872B)	Aug	Y	B	ACTIVE	10	GA	MO		C	O	AI	STO	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
2B RX CAVITY H2 DILUTION FAN DAMPER																

FARLEY UNIT 2

E23 - Post Accident Ctmt Vent and Sample

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E23V0002 **(MOV3740)**	2	N	A	ACTIVE	6	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA VENT (PEN 103)																
Q2E23V0003 **(MOV3530)**	2	N	A	ACTIVE	6	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA VENT (PEN 103)																
Q2E23V0022A **(MOV3528A)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE (PEN 67)																
Q2E23V0022B **(MOV3528B)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE (PEN 67)																
Q2E23V0022C **(MOV3528C)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE (PEN 61A)																
Q2E23V0022D **(MOV3528D)**	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE (PEN 61A)																

FARLEY UNIT 2

E23 - Post Accident Ctmt Vent and Sample

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2E23V0023A (MOV3739A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE (PEN 67)																
Q2E23V0023B (MOV3739B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE (PEN 61A)																
Q2E23V0024A (MOV3745A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE RETURN (PEN 66)																
Q2E23V0024B (MOV3745B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT AIR SAMPLE RETURN (PEN 61B)																
Q2E23V0025A (MOV3835A)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE RETURN (PEN 66)																
Q2E23V0025B (MOV3835B)	2	N	A	ACTIVE	3/4	GL	MO		LC	C	AI	STC	Q		FNP-2-STP-19.3	
												PIT	2Y		FNP-2-STP-19.3	
												LJ-C	LJ		FNP-2-STP-627	
CTMT POST-LOCA SAMPLE RETURN (PEN 61B)																

FARLEY UNIT 2

G21 - Liquid Waste Disposal

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N2G21V0222	Aug	Y	C	ACTIVE	3/4X1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.16	
CTMT SUMP PUMP RELIEF VALVE (PEN 78)																
Q2G21HV3376	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT SUMP PUMP DISCHARGE (PEN 78)																
Q2G21HV3377	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT SUMP PUMP DISCHARGE (PEN 78)																
Q2G21HV3380	2	N	A	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT SUMP RECIRCULATION (PEN 33)																
Q2G21V0001 (HV7150)	2	N	A	ACTIVE	3/4	D	AO		C	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
RX COOLANT DRAIN TANK VENT TO WASTE GAS SYSTEM (PEN 62)																
Q2G21V0005 (V7135)	2	N	A	PASSIVE	3	D	M		LC	LC	N/A	LJ-C	LJ		FNP-2-STP-627	
RCDT PUMP DISCH CONTROL VALVE BYPASS (PEN 31)																
Q2G21V0006 (HV7136)	2	N	A	ACTIVE	3	D	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
RCDT PUMP DISCH TO RECYCLE HOLDUP TANK (PEN 31)																

FARLEY UNIT 2

G21 - Liquid Waste Disposal

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2G21V0064 **(LCV1003)**	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
RCDT PUMP DISCH CONTROL VALVE (PEN 31)																
Q2G21V0082 **(HV7126)**	2	N	A	ACTIVE	3/4	D	AO		O	C	C	STC	Q		FNP-2-STP-44.0	STC see Note 3
												PIT	2Y		FNP-2-STP-44.0	
												LJ-C	LJ		FNP-2-STP-627	
RCDT VENT TO WASTE GAS SYSTEM (PEN 62)																
Q2G21V0204	2	N	AC	ACTIVE	2	CK	S		O/C	O/C	N/A	LJ-C	LJ		FNP-2-STP-627	
												ETC	RF	ROJ-V - 24	FNP-2-STP-627.0	
												ETO	RF	ROJ-V - 24	FNP-2-STP-627.0	
CTMT SUMP RECIRC (PEN 33)																
Q2G21V0291	2	N	AC	ACTIVE	3/4	CK	S		C	O/C	N/A	LJ-C	LJ		FNP-2-STP-627	
												ETC	RF	ROJ-V - 25	FNP-2-STP-627.0	
												ETO	RF	ROJ-V - 25	FNP-2-STP-627.0	
CTMT SUMP PUMP DISCHARGE																
Q2G21V0950	2	N	AC	ACTIVE	3/4X1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.21	
WASTE PROCESSING SYSTEM (PEN 31) RELIEF VALVE																

FARLEY UNIT 2

G24 - Steam Generator Blowdown

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2G24V0003A (HV7614A)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25	
												PIT	2Y		FNP-2-STP-22.25	
SG BLOWDOWN ISOLATION VALVE																
Q2G24V0003B (HV7614B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25	
												PIT	2Y		FNP-2-STP-22.25	
SG BLOWDOWN ISOLATION VALVE																
Q2G24V0003C (HV7614C)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25	
												PIT	2Y		FNP-2-STP-22.25	
SG BLOWDOWN ISOLATION VALVE																
Q2G24V0005A (HV7697A)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN BLOCK VALVE																
Q2G24V0005B (HV7698A)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN BLOCK VALVE																
Q2G24V0005C (HV7699A)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN BLOCK VALVE																
Q2G24V0006A (HV7697B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN ISOLATION VALVE																

FARLEY UNIT 2

G24 - Steam Generator Blowdown

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2G24V0006B (HV7698B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN ISOLATION VALVE																
Q2G24V0006C (HV7699B)	2	N	B	ACTIVE	2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-22.25, STP-45.13	
												PIT	2Y		FNP-2-STP-22.25, STP-45.13	
SG BLOWDOWN ISOLATION VALVE																

FARLEY UNIT 2
G31 - G31

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2G31V0012	2	N	A	PASSIVE	2	D	M		LC	C	N/A	LJ-C	LJ		FNP-2-STP-627	
SPENT FUEL POOL CLEAN-UP TO REACTOR CAVITY (PEN 95)																
Q2G31V0013	2	N	AC	PASSIVE	2	CK	S		C	C	N/A	LJ-C	LJ		FNP-2-STP-627	
SPENT FUEL POOL CLEAN-UP TO REACTOR CAVITY (PEN 95)																
Q2G31V033A (HV033A)	2	N	B	ACTIVE	2	B	AOV		O/C	C	C	STC	Q		FNP-2-STP-44.0	
												PIT	2Y		FNP-2-STP-44.0	
RWST to RWPP Auto Isolation																
Q2G31V033B (HV033B)	2	N	B	ACTIVE	2	B	AOV		O/C	C	C	STC	Q		FNP-2-STP-44.0	
												PIT	2Y		FNP-2-STP-44.0	
RWST to RWPP Auto Isolation																

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N11PV3371A	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-2-STP-45.15	
												STC	CSD/RF		FNP-2-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q2N11PV3371B	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-2-STP-45.15	
												STC	CSD/RF		FNP-2-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q2N11PV3371C	2	N	B	ACTIVE	6	GL	AO		C	O/C	C	STO	CSD/RF		FNP-2-STP-45.15	
												STC	CSD/RF		FNP-2-STP-45.15	
MAIN STEAM LINE ATMOSPHERIC VENT VALVE																
Q2N11V0001A (HV3369A)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q2N11V0001B (HV3369B)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q2N11V0001C (HV3369C)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																

FARLEY UNIT 2

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N11V0002A (HV3370A)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q2N11V0002B (HV3370B)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q2N11V0002C (HV3370C)	2	N	BC	ACTIVE	32	CK	AO/S		O	C	C	BDTO	Normal Ops		FNP-2-SOP-17.0	
												STC	CSD/RF	CSJ-V - 12	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION VALVE																
Q2N11V0003A (HV3368A)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q2N11V0003B (HV3368B)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q2N11V0003C (HV3368C)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																

FARLEY UNIT 2

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N11V0003D (HV3976A)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q2N11V0003E (HV3976B)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q2N11V0003F (HV3976C)	2	N	B	ACTIVE	3	GA	AO		C	C	C	STC	CSD/RF	CSJ-V - 13	FNP-2-STP-45.7	
												PIT	2Y		FNP-2-STP-45.7	
MAIN STEAM ISOLATION BYPASS																
Q2N11V0010A	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q2N11V0010B	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q2N11V0010C	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q2N11V0010D	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	N/A	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q2N11V0010E	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																
Q2N11V0011A	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
MAIN STEAM SAFETY																

FARLEY UNIT 2

N11 - Main Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N11V0011B MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0011C MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0011D MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0011E MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0012A MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0012B MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0012C MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0012D MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	
Q2N11V0012E MAIN STEAM SAFETY	2	N	C	ACTIVE	6 X 10	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-608.0, STP-608.1	

FARLEY UNIT 2

N12 - Auxiliary Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N12HV3226	3	N	B	ACTIVE	3	GL	AO		C	O	O	STO	Q		FNP-2-STP-21.3	
												PIT	2Y		FNP-2-STP-21.3	
MAIN STEAM TO TDAFW PUMP																
Q2N12HV3234A	2	N	B	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-2-STP-21.3	STC see Note 3
												PIT	2Y		FNP-2-STP-21.3	
MAIN STM LINE TO TDAFW PUMP WARM-UP LINE																
Q2N12HV3234B	2	N	B	ACTIVE	1	GL	AO		O	C	C	STC	Q		FNP-2-STP-21.3	STC see Note 3
												PIT	2Y		FNP-2-STP-21.3	
MAIN STM LINE TO TDAFW PUMP WARM-UP LINE																
Q2N12MOV3406	3	Y	B	PASSIVE	3	GL	MO		O	O	AI	PIT	2Y		FNP-2-STP-22.23	
TDAFW TRIP THROTTLE VLV																
Q2N12V0001A (HV3235A)	2	N	BC	ACTIVE	3	SC	AO/S		C	O/C	C	ETC	Q		FNP-2-STP-21.3	
												PIT	2Y		FNP-2-STP-21.3	
												ETO	Q		FNP-2-STP-22.16 or STP-22.32	
MAIN STEAM TO TDAFW PUMP SHUTOFF VALVE																
Q2N12V0001B (HV3235B)	2	N	BC	ACTIVE	3	SC	AO/S		C	O/C	C	ETC	Q		FNP-2-STP-21.3	
												PIT	2Y		FNP-2-STP-21.3	
												ETO	Q		FNP-2-STP-22.16, STP-21.3 or STP-22.32	
MAIN STEAM TO TDAFW PUMP SHUTOFF VALVE																
Q2N12V0010A	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM		FNP-2-STP-22.16 or STP-22.32	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-644.8	
MAIN STEAM TO TDAFW PUMP TURBINE																

FARLEY UNIT 2

N12 - Auxiliary Steam

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N12V0010B	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM		FNP-2-STP-22.16 or STP-22.32	Sec. 9. Note 2
												ETC	CVCM		FNP-2-STP-644.8	
MAIN STEAM TO TDAFW PUMP TURBINE																

FARLEY UNIT 2

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N2N23V0001 TDAFW PUMP MINI FLOW CHECK VALVE	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-2-STP-22.16	
N2N23V0005 MDAFW PUMP MINI FLOW	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-2-STP-22.1	
N2N23V0009 MDAFW PUMP MINI FLOW	Aug	Y	C	ACTIVE	3	CK	S		C	O	NA	ETO	Q		FNP-2-STP-22.2	
N2N23V0013 AFW PUMPS TO CONDENSATE STORAGE TANK	Aug	Y	C	ACTIVE	6	CK	S		C	O	NA	ETO	Q		FNP-2-STP-22.1 or 22.2 or 22.16	
Q2N23HV3227A MDAFW PUMP TO SG 2A FCV	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO STO PIT	CSD Q 2Y		FNP-2-STP-22.8 CSD FNP-2-STP-22.8 FNP-2-STP-22.8	
Q2N23HV3227B MDAFW PUMP TO SG 2B DISCHARGE FCV	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO STO PIT	CSD Q 2Y		FNP-2-STP-22.8 CSD FNP-2-STP-22.8 FNP-2-STP-22.8	
Q2N23HV3227C MDAFW PUMP TO SG 2C DISCHARGE FCV	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO STO PIT	CSD Q 2Y		FNP-2-STP-22.8 CSD FNP-2-STP-22.8 FNP-2-STP-22.8	
Q2N23HV3228A TDAFW PUMP TO 2A SG FCV	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO PIT	Q 2Y		FNP-2-STP-22.8 FNP-2-STP-22.8	

FARLEY UNIT 2

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2N23HV3228B	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
TDAFW PUMP TO SG 2B FCV																
Q2N23HV3228C	3	N	B	ACTIVE	3	GL	AO		O	O	O	STO	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
TDAFW PUMP TO SG 2C FCV																
Q2N23V0002A	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
												ETC	CVCM		FNP-2-STP-22.24	
MDAFW 2A DISCHARGE TO SG																
Q2N23V0002B	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
												ETC	CVCM		FNP-2-STP-22.24	
MDAFW 2B DISCHARGE TO SG																
Q2N23V0002C	3	N	C	ACTIVE	4	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
MDAFW DISCHARGE TO SG 2A																
Q2N23V0002D	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-2-STP-22.30	
TDAFW DISCHARGE TO SG 2A																
Q2N23V0002E	3	N	C	ACTIVE	4	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
MDAFW DISCHARGE TO SG 2B																

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N23V0002F	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-2-STP-22.30	
TDAFW DISCHARGE TO SG 2B																
Q2N23V0002G	3	N	C	ACTIVE	4	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
MDAFW DISCHARGE TO SG 2C																
Q2N23V0002H	3	N	C	ACTIVE	4	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.13	
												ETC	CVCM	CSJ-V - 16	FNP-2-STP-22.30	
TDAFW DISCHARGE TO SG 2C																
Q2N23V0003	3	N	C	ACTIVE	6	CK	S		C	O	NA	BDTC	CVCM		FNP-2-STP-22.30	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.13	
TDAFW DISCHARGE TO SG																
Q2N23V0006	3	N	C	ACTIVE	8	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.13 or STP-22.32	
												ETC	CVCM	CSJ-V - 17	FNP-2-STP-22.28	
TDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																
Q2N23V0007A	3	N	C	ACTIVE	6	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
												ETC	CVCM	CSJ-V - 17	FNP-2-STP-22.28	
MDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																
Q2N23V0007B	3	N	C	ACTIVE	6	CK	S		C	O/C	NA	ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
												ETC	CVCM	CSJ-V - 17	FNP-2-STP-22.28	
MDAFW PUMP SUCTION FROM CONDENSATE STORAGE TANK																

FARLEY UNIT 2

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2N23V0011A (MOV3350A)	2	N	C	ACTIVE	4	CK	N/A	(B-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-2-STP-22.30	
												PIT	2Y		FNP-2-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
AUX FEEDWATER TO SG 2A																
Q2N23V0011B (MOV3350B)	2	N	C	ACTIVE	4	CK	N/A	(D-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-2-STP-22.30	
												PIT	2Y		FNP-2-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
AUX FEEDWATER TO SG 2B																
Q2N23V0011C (MOV3350C)	2	N	C	ACTIVE	4	CK	N/A	(G-10)	C	O/C	NA	ETC	CVCM	CSJ-V - 15	FNP-2-STP-22.30	
												PIT	2Y		FNP-2-STP-22.8, 45.0	
												ETO	CVCM	CSJ-V - 15	FNP-2-STP-22.12	
AUX FEEDWATER TO SG 2C																
Q2N23V0013A (MOV3210A)	3	N	B	ACTIVE	6	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
MDAFW PUMP SW INLET																
Q2N23V0013B (MOV3210B)	3	N	B	ACTIVE	6	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
MDAFW PUMP SW INLET																
Q2N23V0014A (MOV3209A)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
MDAFW PUMP SW INLET																

FARLEY UNIT 2

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position			Required Test	Freq.	Code Dev.	Procedure	Plan Notes
									Normal	Safety	Fail-Safe					
Q2N23V0014B (MOV3209B)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
MDAFW PUMP SW INLET																
Q2N23V0014C (MOV3216)	3	N	B	ACTIVE	8	GA	MO		C	O	AI	STO	RF	ROJ-V - 27	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
TDAFW PUMP SW INLET																
Q2N23V0025A (MOV3764A)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2A																
Q2N23V0025B (MOV3764B)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2B																
Q2N23V0025C (MOV3764C)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2C																
Q2N23V0025D (MOV3764D)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2B																
Q2N23V0025E (MOV3764E)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2A																
Q2N23V0025F (MOV3764F)	3	N	B	ACTIVE	4	GA	MO		O	C	AI	STC	Q		FNP-2-STP-22.8	
												PIT	2Y		FNP-2-STP-22.8	
MDAFW PUMP TO SG 2C																

FARLEY UNIT 2

N23 - Auxiliary Feedwater

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N23V0081A (PSV2922A) 2A MDAFW PUMP SUCTION RELIEF VALVE	3	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.5	
Q2N23V0081B (PSV2922B) 2B MDAFW PUMP SUCTION RELIEF VALVE	3	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.5	
Q2N23V0081C (PSV2922C) TDAFW PUMP SUCTION RELIEF VALVE	3	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.5	

FARLEY UNIT 2

N25 - Chemical Injection

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2N25V0001A (HV3772A)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																
Q2N25V0001B (HV3772B)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																
Q2N25V0001C (HV3772C)	2	N	B	ACTIVE	1/2	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
CHEMICAL INJECTION INTO FEEDWATER																

FARLEY UNIT 2

P11 - Demineralized Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P11V0001 **(HV3659)**	2	N	A	PASSIVE	3	GL	AO		C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
DEMIN WATER TO RPV HEAD STORAGE STAND (PEN 82)																
Q2P11V0002	2	N	AC	PASSIVE	3	CK	S		C	C	NA	LJ-C	LJ		FNP-2-STP-627	
DEMIN WATER TO RPV HEAD STORAGE STAND (PEN 82)																

FARLEY UNIT 2

P13 - Containment Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P13V0281 (HV3198D)	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-2-STP-18.3	STC see Note 3
												PIT	2Y		FNP-2-STP-18.3	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
PURGE SUPPLY DAMPER (PEN 12)																
Q2P13V0282 (HV3197)	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-2-STP-18.3	STC see Note 3
												PIT	2Y		FNP-2-STP-18.3	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
PURGE SUPPLY DAMPER (PEN 12)																
Q2P13V0283 (HV3196)	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-2-STP-18.3	STC see Note 3
												PIT	2Y		FNP-2-STP-18.3	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT PURGE EXHAUST (PEN 13)																
Q2P13V0284 (HV3198A)	2	N	A	ACTIVE	48	B	AO		C	C	C	STC	CSD/RF	CSJ-V - 18	FNP-2-STP-18.3	STC see Note 3
												PIT	2Y		FNP-2-STP-18.3	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT PURGE EXHAUST (PEN 13)																
Q2P13V0301 (HV2866C)	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-18.5	STC see Note 3
												PIT	2Y		FNP-2-STP-18.5	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT MINI-PURGE SUPPLY (PEN 12)																
Q2P13V0302 (HV2866D)	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-18.5	STC see Note 3
												PIT	2Y		FNP-2-STP-18.5	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT MINI-PURGE SUPPLY (PEN 12)																

FARLEY UNIT 2

P13 - Containment Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P13V0303 **(HV2867C)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-18.5	STC see Note 3
												PIT	2Y		FNP-2-STP-18.5	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT MINI-PURGE EXHAUST (PEN 13)																
Q2P13V0304 **(HV2867D)**	2	N	A	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-18.5	STC see Note 3
												PIT	2Y		FNP-2-STP-18.5	
												LJ-C	LJ		FNP-2-STP-627.0/.1/.2	
CTMT MINI-PURGE EXHAUST (PEN 13)																

FARLEY UNIT 2

P15 - Sampling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P15HV3179A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2A BLOWDOWN LOWER ISOLATION VALVE																
Q2P15HV3179C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2A BLOWDOWN SAMPLE ISOLATION VALVE																
Q2P15HV3180A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2B BLOWDOWN LOWER ISOLATION VALVE																
Q2P15HV3180C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2B BLOWDOWN SAMPLE ISOLATION VALVE																
Q2P15HV3181A	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2C BLOWDOWN LOWER ISOLATION VALVE																
Q2P15HV3181C	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2C BLOWDOWN SAMPLE ISOLATION VALVE																
Q2P15HV3328	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2A BLOWDOWN SAMPLE ISOLATION VALVE																
Q2P15HV3329	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2B BLOWDOWN SAMPLE ISOLATION VALVE																

FARLEY UNIT 2

P15 - Sampling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P15HV3330	2	N	B	ACTIVE	3/8	GL	AO		O/C	C	C	STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
SG 2C BLOWDOWN SAMPLE ISOLATION VALVE																
Q2P15HV3334	2	N	A	ACTIVE	3/8	GL	AO	(G-5)	C	O/C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												STO	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
ACCUMULATOR TANKS SAMPLE (PEN 50)																
Q2P15HV3766	2	N	A	ACTIVE	3/8	GL	AO		C	C	C	STC	Q		FNP-2-STP-47.0	STC see Note 3
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
ACCUMULATOR TANKS SAMPLE (PEN 50)																
Q2P15SV3103	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
RCS PRESSURIZER LIQUID SAMPLE (PEN 57)																
Q2P15SV3104	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
PRESSURIZER STEAM SAMPLE TO GFFD (PEN 56)																
Q2P15SV3331	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
PRESSURIZER STEAM SAMPLE LINE CTMT ISO (PEN 56)																

FARLEY UNIT 2

P15 - Sampling

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P15SV3332	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
PRESSURIZER LIQUID SAMPLE TO GFFD (PEN 57)																
Q2P15SV3333	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
RCS (HL) SAMPLE TO GFFD (PEN 58)																
Q2P15SV3765	2	N	A	ACTIVE	3/8	GL	SO		O	C	C	PIT	2Y		FNP-2-STP-47.1	STC see Note 3
												STC	Q		FNP-2-STP-47.0	
												LJ-C	LJ		FNP-2-STP-627	
RCS (HL) SAMPLE TO GFFD (PEN 58)																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N2P16V0718A	Aug	Y	C	ACTIVE	2.5	VR	S		C	O/C	C	ETC	RF		PM TASK	
												ETO	RF		PM TASK	
SW VACUUM BREAKERS - TURBINE BLDG HVAC																
N2P16V0718B	Aug	Y	C	ACTIVE	2.5	VR	S		C	O/C	C	ETC	RF		PM TASK	
												ETO	RF		PM TASK	
SW VACUUM BREAKERS - TURBINE BLDG HVAC																
Q2P16FV3009A	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-2-STP-23.14	
SW from 2A CCW HX flow control valve																
Q2P16FV3009B	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-2-STP-23.14	
SW from 2B CCW HX flow control valve																
Q2P16FV3009C	3	N	B	ACTIVE	20	B	AO		O	O	O	STO	Q		FNP-2-STP-23.14	
SW from 2C CCW HX flow control valve																
Q2P16V0003A (MOV3130A)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.15	
SW TO CCW HX INLET LINE ISO VALVE																
Q2P16V0003B (MOV3130B)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.14	
SW TO CCW HX INLET LINE ISO VALVE																
Q2P16V0003C (MOV3130C)	3	N	B	PASSIVE	20	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.14	
SW TO CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0010A (MOV3019A)	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0010B **(MOV3019B)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0010C **(MOV3019C)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0010D **(MOV3019D)**	2	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW TO CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0011A **(PSV3020A)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q2P16V0011B **(PSV3020B)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q2P16V0011C **(PSV3020C)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q2P16V0011D **(PSV3020D)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.22	
SW SUPPLY TO CTMT COOLERS RELIEF																
Q2P16V0015A **(PSV3142A)**	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
AFW PUMP ROOM COOLER RELIEF																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0015B **(PSV3142B)** AFW PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0020A **(PSV3137A)** RHR/LHSI PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0020B **(PSV3137B)** RHR/LHSI PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0025A **(PSV3138A)** CCW PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0025B **(PSV3138B)** CCW PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0035A **(PSV3139A)** CTMT SPRAY PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0035B **(PSV3139B)** CTMT SPRAY PUMP ROOM COOLER RELIEF	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.23	
Q2P16V0043A **(MOV3024A)** SW EMERG FROM CTMT COOLER 2A	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC STO PIT	Q Q 2Y		FNP-2-STP-24.16 FNP-2-STP-24.16 FNP-2-STP-24.16	STC, STO-Note 3

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0043B **(MOV3024B)**	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW EMERG FROM CTMT COOLER 2B																
Q2P16V0043C **(MOV3024C)**	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW EMERG FROM CTMT COOLER 2C																
Q2P16V0043D **(MOV3024D)**	2	N	B	ACTIVE	10	B	MO		C	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW EMERG FROM CTMT COOLER 2D																
Q2P16V0044A **(MOV3023A)**	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q2P16V0044B **(MOV3023B)**	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q2P16V0044C **(MOV3023C)**	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLERS																

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0044D **(MOV3023D)**	2	N	B	ACTIVE	6	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLERS																
Q2P16V0052 **(MOV3149)**	3	N	B	ACTIVE	10	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.7	STC see Note 3
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW TO SG BLOWDOWN HX AND BTRS CHILLER UNITS																
Q2P16V0064 **(MOV3150)**	3	N	B	ACTIVE	10	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.7	STC see Note 3
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW FROM SG BLOWDOWN HX AND BTRS CHILLER UNITS																
Q2P16V0069A	3	N	C	ACTIVE	30	CK	S		O	O	NA	BDTC	CVCM		FNP-2-STP-24.24A or STP-644.2	
												ETO	CVCM		FNP-2-STP-17.0	
AUX BLDG A TRAIN SW DISCHARGE LINE CHECK VALVE																
Q2P16V0069B	3	N	C	ACTIVE	30	CK	S		O	O	NA	BDTC	CVCM		FNP-2-STP-24.24B or STP-644.2	
												ETO	CVCM		FNP-2-STP-17.0	
AUX BLDG B TRAIN SW DISCHARGE LINE CHECK VALVE																
Q2P16V0070A	3	N	C	ACTIVE	16	CK	S		O	O	NA	BDTC	CVCM		FNP-2-STP-644.2	
												ETO	CVCM		FNP-2-STP-17.0	
A TRAIN SW TO CTMT COOLERS HEADER CHECK VALVE																
Q2P16V0070B	3	N	C	ACTIVE	16	CK	S		O	O	NA	BDTC	CVCM		FNP-2-STP-644.2	
												ETO	CVCM		FNP-2-STP-17.0	
B TRAIN SW TO CTMT COOLERS HEADER CHECK VALVE																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0071 **(MOV3135)**	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.16	STC see Note 3
												PIT	2Y		FNP-2-STP-24.16	
												LJ-C	LJ		FNP-2-STP-627	
SW TO RCP MOTOR COOLERS																
Q2P16V0072 **(MOV3134)**	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.16	STC see Note 3
												PIT	2Y		FNP-2-STP-24.16	
												LJ-C	LJ		FNP-2-STP-627	
SW RETURN FROM RCP MOTOR COOLERS																
Q2P16V0075	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-1.1	Sec. 9, Note 2
												LJ-C	LJ		FNP-2-STP-627	
												ETC	CVCM		FNP-2-STP-627.0	
SW TO RCP MOTOR COOLERS																
Q2P16V0081 **(MOV3131)**	2	N	A	ACTIVE	6	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.16	STC see Note 3
												PIT	2Y		FNP-2-STP-24.16	
												LJ-C	LJ		FNP-2-STP-627	
SW RETURN FROM RCP MOTOR COOLERS																
Q2P16V0203 **(PSV3397)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.19	
CTMT PEN NO 32 THERMAL RELIEF VALVE																
Q2P16V0204 **(PSV3401)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.19	
CTMT PEN NO 60 THERMAL RELIEF VALVE																
Q2P16V0206A	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-2-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-644.15	
SW TO CTMT COOLER 2A CHECK VALVE																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0206B	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-2-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-644.15	
SW TO CTMT COOLER 2B CHECK VALVE																
Q2P16V0206C	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-2-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-644.15	
SW TO CTMT COOLER 2C CHECK VALVE																
Q2P16V0206D	2	N	C	ACTIVE	12	CK	S		O	O/C	NA	ETO	CVCM		FNP-2-STP-17.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-644.15	
SW TO CTMT COOLER 2D CHECK VALVE																
Q2P16V0207A (MOV3441A)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0207B (MOV3441B)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLER LINE ISO VALVE																
Q2P16V0207C (MOV3441C)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLER LINE ISO VAVLE																
Q2P16V0207D (MOV3441D)	2	N	B	ACTIVE	10	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.16	STC, STO-Note 3
												STO	Q		FNP-2-STP-24.16	
												PIT	2Y		FNP-2-STP-24.16	
SW FROM CTMT AIR COOLER LINE ISO VALVE																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0208A (PSV3442A) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.15	
Q2P16V0208B (PSV3442B) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.15	
Q2P16V0208C (PSV3442C) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.15	
Q2P16V0208D (PSV3442D) CTMT COOLER SW RETURN RELIEF VALVE	2	N	C	ACTIVE	1.5X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.15	
Q2P16V0506 2C SW PUMP TO B HDR ISO VALVE	3	N	B	PASSIVE	42	B	MO		AI	AI	AI	PIT	2Y		FNP-2-STP-24.15	
Q2P16V0507 2C SW PUMP TO A HDR ISO VALVE	3	N	B	PASSIVE	42	B	MO		AI	AI	AI	PIT	2Y		FNP-2-STP-24.14	
Q2P16V0508 SW INLET TO STRAINER LINE ISO VALVE	3	N	B	PASSIVE	42	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.15	
Q2P16V0511 SW INLET TO STRAINER LINE ISO VALVE	3	N	B	PASSIVE	42	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.14	
Q2P16V0514 SW SUPPLY TO TURBINE BLDG-TRAIN B	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC PIT	CSD/RF 2Y	CSJ-V - 19	FNP-2-STP-45.6 FNP-2-STP-45.6	STC see Note 3

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0515	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	STC see Note 3
												PIT	2Y		FNP-2-STP-45.6	
SW SUPPLY TO TURBINE BLDG-TRAIN A																
Q2P16V0516	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	STC see Note 3
												PIT	2Y		FNP-2-STP-45.6	
SW TRAIN A TO TURBINE BLDG																
Q2P16V0517	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	STC see Note 3
												PIT	2Y		FNP-2-STP-45.6	
SW TRAIN B TO TURBINE BLDG																
Q2P16V0518	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW TO DG HEADER-TRAIN B																
Q2P16V0519	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW TO DG HEADER-TRAIN A																
Q2P16V0536	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW FROM DG HEADER-TRAIN B																
Q2P16V0537	3	N	B	ACTIVE	12	B	MO		O	O/C	AI	STC	Q		FNP-2-STP-24.7	Sec. 9, Note 1
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW FROM DG HEADER-TRAIN A																
Q2P16V0538	3	N	B	ACTIVE	42	B	MO		C	O	AI	STO	Q		FNP-2-STP-24.7	
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW HEADER B EMERG RECIRC TO STORAGE POND																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0539	3	N	B	ACTIVE	42	B	MO		C	O	AI	STO	Q		FNP-2-STP-24.7	
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW HEADER A EMERG RECIRC TO STORAGE POND																
Q2P16V0540	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	
												PIT	2Y		FNP-2-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A																
Q2P16V0541	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	
												PIT	2Y		FNP-2-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN B																
Q2P16V0542	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	
												PIT	2Y		FNP-2-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A																
Q2P16V0543	3	N	B	ACTIVE	24	B	MO		O	C	AI	STC	CSD/RF	CSJ-V - 19	FNP-2-STP-45.6	
												PIT	2Y		FNP-2-STP-45.6	
SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN B																
Q2P16V0545	3	N	B	ACTIVE	30	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.7	
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW HEADER B NORMAL DISC HDR ISO																
Q2P16V0546	3	N	B	ACTIVE	30	B	MO		O	C	AI	STC	Q		FNP-2-STP-24.7	
												PIT	2Y		FNP-2-STP-24.7, 45.0	
SW HEADER A NORMAL DISC HDR ISO																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0549	3	N	B	ACTIVE	30	B	MO		O	C	AI	PIT	2Y		FNP-2-STP-24.14	
												STC	RF	ROJ-V - 41	FNP-2-STP-24.14	
SW RETURN TO STANDPIPE LINE ISO VALVE																
Q2P16V0550	3	N	B	ACTIVE	30	B	MO		O	C	AI	PIT	2Y		FNP-2-STP-24.14	
												STC	Q		FNP-2-STP-24.14	
SW RETURN TO CIRC WATER CANAL LINE ISO VALVE																
Q2P16V0552	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-24.1	
												ETO	Q		FNP-2-STP-24.1	
SW PUMP 2A DISCHARGE CHECK																
Q2P16V0553	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-24.1	
												ETO	Q		FNP-2-STP-24.1	
SW PUMP 2B DISCHARGE CHECK																
Q2P16V0554	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-24.1 or STP-24.2	
												ETO	Q		FNP-2-STP-24.1 or STP-24.2	
SW PUMP 2C DISCHARGE CHECK																
Q2P16V0555	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-24.2	
												ETO	Q		FNP-2-STP-24.2	
SW PUMP 2D DISCHARGE CHECK																
Q2P16V0556	3	N	C	ACTIVE	20	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-24.2	
												ETO	Q		FNP-2-STP-24.2	
SW PUMP 2E DISCHARGE CHECK																
Q2P16V0557	3	N	B	PASSIVE	24	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.15	
SW DILUTION BYPASS LINE ISO VALVE																

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0558 SW DILUTION BYPASS ISO A TRAIN	3	N	B	PASSIVE	24	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-24.14	
Q2P16V0564 DIESEL GENERATORS 'TRAIN B' SERVICE WATER	3	N	C	ACTIVE	12	CK	S		O	O	NA	BDTC ETO	CVCM CVCM		FNP-2-STP-644.2 FNP-2-STP-644.2	Sec. 9, Note 2
Q2P16V0565 DIESEL GENERATORS 'TRAIN A' SERVICE WATER CHECK VALVE	3	N	C	ACTIVE	12	CK	S		O	O	NA	BDTC ETO	CVCM CVCM		FNP-2-STP-644.2 FNP-2-STP-644.2	Sec. 9, Note 2
Q2P16V0592 SW TO DG LINE ISO VALVE	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q2P16V0593 2B DG SW SUPPLY	3	N	B	PASSIVE	8	B	MO		O	O	AI	PIT	2Y		FNP-0-STP-24.17	
Q2P16V0659 UNIT 2 SW SUPPLY TO DG 2C	3	N	C	ACTIVE	6	CK	S		O	O/C	NA	ETO ETC	CVCM CVCM		FNP-0-STP-80.17 FNP-2-STP-644.11	Sec. 9, Note 2
Q2P16V0660 UNIT 2 SW SUPPLY TO DG 1C	3	N	C	ACTIVE	6	CK	S		O	O/C	NA	ETO ETC	CVCM CVCM		FNP-0-STP-80.2 FNP-2-STP-644.11	Sec. 9, Note 2
Q2P16V0661 UNIT 2 SW SUPPLY TO DG 1-2A	3	N	C	ACTIVE	8	CK	S		O	O/C	NA	ETC ETO	CVCM CVCM		FNP-2-STP-644.12 FNP-2-STP-644.12	Sec. 9, Note 2
Q2P16V0679 SW HEADER VACUUM BREAKER	3	Y	C	ACTIVE	8	VR	S		C	O/C	NA	ETC ETO	RF RF		FNP-2-STP-644.18 FNP-2-STP-644.18	

FARLEY UNIT 2

P16 - Service Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P16V0680	3	Y	C	ACTIVE	8	VR	S		C	O/C	NA	ETC	RF		FNP-2-STP-644.18	
												ETO	RF		FNP-2-STP-644.18	
SW HEADER VACUUM BREAKER																
Q2P16V562	III	Y	B	N/A	24 inch	BTF	AOV	(B-10)	C	O/C	C	(No Tests)				
B-Train Dilution By-Pass PCV																
Q2P16V563	III	Y	B	N/A	24 inch	BTF	AOV	(D-10)	C	O/C	C	(No Tests)				
A-Train Dilution By-Pass PCV																
Q2P16V577	III	Y	B	N/A	8 inch	GL	AOV	(E-3)	C	O/C	C	(No Tests)				
A-Train Service Water Mini-Flow																
Q2P16V578	III	Y	B	N/A	8 inch	GL	AOV	(E-5)	C	O/C	C	(No Tests)				
2C Service Water Mini-Flow																
Q2P16V579	III	Y	B	N/A	8 inch	GL	AOV	(E-8)	C	O/C	C	(No Tests)				
B-Train Service Water Mini-Flow																

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17HV2229	3	N	B	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-2-STP-23.8	STC see Note 3
												PIT	2Y		FNP-2-STP-23.8	
CCW SUPPLY TO SAMPLE COOLERS																
Q2P17HV3045	2	N	A	ACTIVE	3	GL	AO		O	C	C	STC	RF	ROJ-V - 33	FNP-2-STP-45.9	
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM RCP THERMAL BARRIER (PEN 43)																
Q2P17HV3067	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-2-STP-45.9	STC see Note 3
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM EXCESS LETDOWN HX (PEN 46)																
Q2P17HV3095	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-2-STP-45.9	STC see Note 3
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW SUPPLY TO EXCESS LETDOWN HX (PEN 45)																
Q2P17HV3096A	3	N	B	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-23.8	STC see Note 3
												PIT	2Y		FNP-2-STP-23.8	
CCW TO RECYCLE SYS, WASTE GAS SYS, HYDROGEN RECOMBINER																
Q2P17HV3096B	3	N	B	ACTIVE	8	B	AO		O	C	C	STC	Q		FNP-2-STP-23.8	STC see Note 3
												PIT	2Y		FNP-2-STP-23.8	
CCW FROM RECYCLE SYS, WASTE GAS SYS, HYDROGEN RECOMBINER																

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17HV3184	2	N	A	ACTIVE	3	GL	AO	(D-6)	O	O/C	C	STC	RF	ROJ-V - 33	FNP-2-STP-45.9	
												PIT	2Y		FNP-2-STP-45.9	
												STO	RF	ROJ-V - 33	FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM RCP THERMAL BARRIER (PEN 43)																
Q2P17HV3443	2	N	A	ACTIVE	6	GL	AO		O	C	C	STC	RF	ROJ-V - 36	FNP-2-STP-45.9	STC see Note 3
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM EXCESS LETDOWN HX (PEN 46)																
Q2P17RV3028	3	N	B	ACTIVE	2	GL	AO		O	C	C	STC	Q		FNP-2-STP-23.8	
												PIT	2Y		FNP-2-STP-23.8	
CCW SURGE TANK VENT																
Q2P17V0001A	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-23.1	
												ETO	Q		FNP-2-STP-23.1	
CCW PUMP DISCHARGE CHECK VALVES																
Q2P17V0001B	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-23.2	
												ETO	Q		FNP-2-STP-23.2	
CCW PUMP DISCHARGE CHECK VALVES																
Q2P17V0001C	3	N	C	ACTIVE	18	CK	S		O/C	O/C	NA	ETC	Q		FNP-2-STP-23.3	
												ETO	Q		FNP-2-STP-23.3	
CCW PUMP DISCHARGE CHECK VALVES																
Q2P17V0006A (PSV3040A)	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.24	
CCW HX RELIEF VALVE																

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17V0006B (PSV3040B) CCW HX RELIEF VALVE	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.24	
Q2P17V0006C (PSV3040C) CCW HX RELIEF VALVE	3	N	C	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.24	
Q2P17V0011A (MOV3094A) CCW INLET TO SFP CCW HX LINE ISO VALVE	3	Y	B	PASSIVE	10	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-45.9	
Q2P17V0011B (MOV3094B) CCW INLET TO SFP CCW HX LINE ISO VALVE	3	Y	B	PASSIVE	10	B	MO		O	O	AI	PIT	2Y		FNP-2-STP-45.9	
Q2P17V0029A (MOV3185A) CCW TO RHR HX	3	N	B	ACTIVE	14	B	MO		O/C	O	AI	STO PIT	Q 2Y		FNP-2-STP-23.8 FNP-2-STP-23.8	
Q2P17V0029B (MOV3185B) CCW TO RHR HX	3	N	B	ACTIVE	14	B	MO		O/C	O	AI	STO PIT	Q 2Y		FNP-2-STP-23.8 FNP-2-STP-23.8	
Q2P17V0082 (MOV3052) CCW TO RCP (PEN 42)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC PIT LJ-C	RF 2Y LJ	ROJ-V - 33	FNP-2-STP-45.9 FNP-2-STP-45.9 FNP-2-STP-627	
Q2P17V0083 CCW TO RCP (PEN 42)	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO LJ-C ETC	CVCM LJ CVCM		FNP-2-SOP-23.0 FNP-2-STP-627 FNP-2-STP-627.0	Sec. 9, Note 2

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17V0087A	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q2P17V0087B	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q2P17V0087C	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-23.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-23.12	
CCW INLET TO RCP THERMAL BARRIER CHECK VALVE																
Q2P17V0097 (MOV3046)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC	RF	ROJ-V - 33	FNP-2-STP-45.9	
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM RCP BEARINGS (PEN 44)																
Q2P17V0099 (MOV3182)	2	N	A	ACTIVE	6	GA	MO		O	C	AI	STC	RF	ROJ-V - 33	FNP-2-STP-45.9	
												PIT	2Y		FNP-2-STP-45.9	
												LJ-C	LJ		FNP-2-STP-627	
CCW RETURN FROM RCP BEARINGS (PEN 44)																
Q2P17V0111	3	N	C	ACTIVE	14	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-23.0 or STP-644.17	
												ETC	CVCM	ROJ-V - 37	FNP-2-STP-644.17	
CCW PUMP SUCTION CHECK VALVE																
Q2P17V0115 (PSV3029)	3	N	C	ACTIVE	4 X 6	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.6	
CCW SURGE TANK RELIEF VALVE																

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17V0117A **(MOV3031A)**	3	Y	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-2-STP-23.8	
												STC	Q		FNP-2-STP-23.8	
												PIT	2Y		FNP-2-STP-23.8	
RMW TO CCW SYSTEM																
Q2P17V0117B **(MOV3031B)**	3	Y	B	ACTIVE	2	GL	MO		C	O/C	AI	STO	Q		FNP-2-STP-23.8	
												STC	Q		FNP-2-STP-23.8	
												PIT	2Y		FNP-2-STP-23.8	
RMW TO CCW SYSTEM																
Q2P17V0121A **(MOV3030A)**	3	N	B	ACTIVE	2	GL	MO		O/C	C	AI	STC	Q		FNP-2-STP-23.8	
												PIT	2Y		FNP-2-STP-23.8	
DEMIN WATER MAKEUP TO CCW SURGE TANK LINE ISO VALVE																
Q2P17V0121B **(MOV3030B)**	3	N	B	ACTIVE	2	GL	MO		O/C	C	AI	STC	Q		FNP-2-STP-23.8	
												PIT	2Y		FNP-2-STP-23.8	
DEMIN WATER MAKEUP TO CCW SURGE TANK LINE ISO VALVE																
Q2P17V0126A **(PSV3354A)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.7	
RHR HX RELIEF VALVE																
Q2P17V0126B **(PSV3354B)**	3	N	C	ACTIVE	1 1/2X2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.7	
RHR HX RELIEF VALVE																
Q2P17V0149A **(PSV3381A)**	3	N	C	ACTIVE	1 X 1- 1/2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.25	
RHR PUMP SEAL COOLER RELIEF																
Q2P17V0149B **(PSV3381B)**	3	N	C	ACTIVE	1 X 1- 1/2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.25	
RHR PUMP SEAL COOLER RELIEF																

FARLEY UNIT 2

P17 - Component Cooling Water

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P17V0153 **(PSV3413)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.17	
THERMAL RELIEF VALVE ON CTMT PEN 45																
Q2P17V0154 **(PSV3414)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.17	
THERMAL RELIEF VALVE ON CTMT PEN 46																
Q2P17V0155 **(PSV3415)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.18	
THERMAL RELIEF VALVE ON CTMT PEN 44																
Q2P17V0158 **(PSV3444)**	2	N	AC	ACTIVE	3/4 X 1	SR	S		C	O/C	NA	LJ-C	LJ		FNP-2-STP-627	
												ETSP	T		FNP-2-STP-628.18	
THERMAL RELIEF VALVE ON CTMT PEN 42																
Q2P17V0159	2	N	AC	ACTIVE	6	CK	S		O	C	NA	BDTO	CVCM		Normal Ops	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-627.0	
												LJ-C	LJ		FNP-2-STP-627.0	
CCW SUPPLY TO EXCESS LETDOWN HX (PEN 45)																
Q2P17V0263A	3	N	C	ACTIVE	1	CK	S		C	O	NA	ETSP	T		FNP-2-STP-628.8	
CCW SURGE TANK VACUUM RELIEF																
Q2P17V0263B	3	N	C	ACTIVE	1	CK	S		C	O	NA	ETSP	T		FNP-2-STP-628.8	
CCW SURGE TANK VACUUM RELIEF																
Q2P17V0288	3	N	C	ACTIVE	2	CK	S		O	C	NA	BDTO	Normal Ops		FNP-2-SOP-23	
												ETC	Q		FNP-2-STP-23.8	
CCW RETURN FROM GROSS FAILED FUEL DETECTOR & SAMPLE COOLERS																

FARLEY UNIT 2

P18 - Service Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P18V0001	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-2-STP-627	
SERVICE AIR TO PENETRATION ROOMS AND CONTAINMENT (PEN 47)																
Q2P18V0002	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-2-STP-627	
SERVICE AIR TO PENETRATION ROOMS AND CONTAINMENT (PEN 47)																
Q2P18V0004	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-2-STP-627	
BREATHING AIR TO CTMT HDR ISO (PEN 79)																
Q2P18V0005	2	N	A	PASSIVE	2	GL	M		LC	C	NA	LJ-C	LJ		FNP-2-STP-627	
BREATHING AIR TO CTMT HDR ISO (PEN 79)																

FARLEY UNIT 2

P19 - Instrument Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
N2P19PSV2228	Aug	Y	C	ACTIVE	3/4	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.10	
BACKUP NITROGEN SUPPLY TO PRESS PORVs																
N2P19V0007A	Aug	Y	C	ACTIVE	1/2	CK	S		O/C	C	NA	ETC	RF		FNP-2-STP-22.20	
INST AIR SUPPLY TO AUX STEAM VALVE Q2N12V001A AIR ACCUM																
N2P19V0007B	Aug	Y	C	ACTIVE	1/2	CK	S		O/C	C	NA	ETC	RF		FNP-2-STP-22.20	
INST AIR SUPPLY TO AUX STEAM VALVE Q2N12V001B AIR ACCUM																
N2P19V0236A	Aug	Y	C	ACTIVE	3/4	CK	N/A	(B-7)	C	C	NA	ETC	RF		FNP-2-STP-45.11	
INST AIR SUPPLY TO PORVS																
N2P19V0243	Aug	Y	C	ACTIVE	3/4	CK	S		C	C	NA	ETC	RF		FNP-2-STP-45.11	
INST AIR SUPPLY TO PORVS																
Q2P19HV2228 **(V0006)**	2	N	A	ACTIVE	3/4	GL	AO		C	O/C	C	STO	Q		FNP-2-STP-47.0	
												STC	Q		FNP-2-STP-47.0	
												PIT	2Y		FNP-2-STP-47.0	
												LJ-C	LT		FNP-2-STP-627	
BACKUP NITROGEN SUPPLY TO PRESSURIZER PORV'S (PEN 97B)																
Q2P19HV3611	2	N	A	ACTIVE	2	GL	AO		O	C	C	STC	RF	ROJ-V - 40	FNP-2-STP-45.0	
												PIT	2Y		FNP-2-STP-45.0	
												LJ-C	LJ		FNP-2-STP-627	
CTMT INSTRUMENT AIR SUPPLY (PEN 48)																
Q2P19V0002	2	N	AC	ACTIVE	2	CK	S		O	C	NA	BDTO	CVCM		FNP-2-SOP-31.0	Sec. 9, Note 2
												ETC	CVCM		FNP-2-STP-627.0	
												LJ-C	LJ		FNP-2-STP-627.0	
CTMT INSTRUMENT AIR SUPPLY (PEN 48)																

FARLEY UNIT 2

P19 - Instrument Air

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P19V0004	2	N	AC	ACTIVE	1/2	CK	S		O/C	O/C	NA	ETO	CSD/RF	CSJ-V - 20	FNP-2-STP-45.11	
												ETC	RF	ROJ-V - 39	FNP-2-STP-166 or STP-627	
												LJ-C	LJ		FNP-2-STP-627	
BACKUP AIR SUPPLY TO PRESSURIZER PORV'S (PEN 97B)																
Q2P19V1099	2	N	A	PASSIVE	3/4	GL	M		LC	C	NA	LJ-C	LJ		FNP-2-STP-627	
BACKUP NITROGEN SUPPLY BYPASS TO PORVS																

FARLEY UNIT 2

P23 - Containment Cooling and Purge

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2P23V0002A (MOV3239) CTMT LEAK RATE TEST VALVE	2	N	A	PASSIVE	8	GL	MO		C	C	AI	LJ-C	LJ		FNP-2-STP-627	
Q2P23V0002B (MOV3239) CTMT LEAK RATE TEST VALVE	2	N	A	PASSIVE	8	GL	MO		C	C	AI	LJ-C	LJ		FNP-2-STP-627	

FARLEY UNIT 2

R43 - R43

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2R43V0519 2B DG AIR START SOLENOID	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-8)	C	O	AI	ETO	Q		FNP-2-STP-80.1	
Q2R43V0520 2B DG AIR START SOLENOID	Aug	Y	B	ACTIVE	3/8	TW	SO	(C-8)	C	O	AI	ETO	Q		FNP-2-STP-80.1	
Q2R43V0532 2B DG AIR RECEIVER A AIR DRYER CHECK VALVE	Aug	Y	C	ACTIVE	3/4	CK	N/A	(F-4)	O/C	C	NA	BDTO ETC	CVCM CVCM		FNP-0-SOP-38.0 FNP-2-STP-154.1	
Q2R43V0533 2B DG AIR RECEIVER B AIR DRYER CHECK VALVE	Aug	Y	C	ACTIVE	3/4	CK	N/A	(F-8)	O/C	C	NA	BDTO ETC	CVCM CVCM		FNP-0-SOP-38.0 FNP-2-STP-154.1	
Q2R43V0538 2B DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.9	
Q2R43V0539 2B DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE	Aug	Y	C	ACTIVE	1/2	SR	S		C	O/C	NA	ETSP	T		FNP-2-STP-628.9	

FARLEY UNIT 2

V48 - Spent Fuel Pool Vent & Filtration

Valve ID Description	Class	Aug.	Cat.	A/P	Size	Valve Type	Act. Type	Drawing & Coord	Position Normal	Position Safety	Position Fail-Safe	Required Test	Freq.	Code Dev.	Procedure	Plan Notes
Q2V48V0001A (HV3538A)	Aug	Y	B	ACTIVE	16	B	AO		O	O/C	C	STC	Q		FNP-2-STP-20.0	
												STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
SFP FILTRATION SYS TO PENETRATION RM FILTER UNIT																
Q2V48V0001B (HV3538B)	Aug	Y	B	ACTIVE	16	B	AO		O	O/C	C	STC	Q		FNP-2-STP-20.0	
												STO	Q		FNP-2-STP-20.0	
												PIT	2Y		FNP-2-STP-20.0	
SFP FILTRATION SYS TO PENETRATION RM FILTER UNIT																

12.0 VALVE RELIEF REQUEST LOG

Relief Request	Description	Status
RR-VR-01	Establish grace periods per Code Case OMN-20 for all pumps and valves	Approved by SER dated 7/18/2017 ML17037D324

13.0 COLD SHUTDOWN JUSTIFICATION (CSJ) LOG

CSJ	Components
CSJ-V-01	Q1(2)B13SV2213A & B Q1(2)B13SV2214A & B
CSJ-V-02	Q1(2)E11V0001A & B Q1(2)E11V0016A & B
CSJ-V-03	Q1(2)E11V0044
CSJ-V-04	Q1(2)E11V0009A & B
CSJ-V-05	NOT USED
CSJ-V-06	Q1(2)E21V0253A, B & C
CSJ-V-07	Q1(2)E21V0210
CSJ-V-08	Q1(2)E21V0254 Q1(2)E21V0257 Q1(2)E21V0258 Q1(2)E21V0565A & B
CSJ-V-09	Q1(2)E21V0336A & B Q1(2)E21V0376A & B
CSJ-V-10	Q1(2)E21V0220A & B
CSJ-V-11	Q1(2)E21V0265
CSJ-V-12	Q1(2)N11V0001A, B & C Q1(2)N11V0002A, B & C
CSJ-V-13	Q1(2)N11V0003A thru F
CSJ-V-14	Q1(2)N21V0001A, B & C
CSJ-V-15	Q1(2)N23V0002 A thru H Q1(2)N23V0003, Q1(2)N23V0006 Q1(2)N23V0007A & B Q1(2)N23V0011A, B & C

CSJ	Components
CSJ-V-16	Q1(2)N23V0002D, F & H
CSJ-V-17	Q1(2)N23V0006 Q1(2)N23V0007A & B
CSJ-V-18	Q1(2)P13V0281 Q1(2)P13V0282 Q1(2)P13V0283 Q1(2)P13V0284
CSJ-V-19	Q1(2)P16V0514 Q1(2)P16V0515 Q1(2)P16V0516 Q1(2)P16V0517 Q1(2)P16V0540 Q1(2)P16V0541 Q1(2)P16V0542 Q1(2)P16V0543
CSJ-V-20	Q2P19V0004

COLD SHUTDOWN JUSTIFICATION
CSJ-V-01

System:	Reactor Coolant (B13)
Valve:	Q1(2)B13SV2213A, B, Q1(2)B13SV2214A, B
Other Valve No:	HV-1, HV-2, HV-3, HV-4
Drawing:	D-175037-1 (E-7, E-7, E-8, E-8) D-205037-1 (E-7, E-7, E-8, E-8)
Category:	B
Class:	2
Function:	Reactor vessel head vent valve.
Quarterly Test Requirements:	Exercise, time, and fail (ISTC-3510, 5150 and 3560).
Cold Shutdown Test Justification:	The head vent valves cannot be exercised during normal operation with adequate assurance that an uncontrolled release of reactor coolant and a rapid RCS de-pressurization would not occur. To exercise the valves open in any order could result in a potential pressure shock to the closed valve and a potential "BURP" reaction. The consequences of this reaction are too severe to warrant testing during normal operation.
Quarterly Part Stroke Exercising:	None, these are rapid acting valves. The operating controls were not designed for partial stroking.
Cold Shutdown Testing:	Exercise, time and fail test per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-02

System:	LHSI/RHR (E11)
Valve:	Q1(2)E11V0001A, B, Q1(2)E11V0016A, B
Other Valve No:	8701A, 8702A, 8701B, 8702B
Drawing:	D-175041 (G-3, E-3, G-2, E-2) D-205041 (G-3, E-3, G-1, E-2)
Category:	A
Class:	1
Function:	RHR Pump Suction from RCS (HL).
Quarterly Test Requirements:	Exercise and time (ISTC-3510 and 5120).
Cold Shutdown Test Justification:	These are boundary valves between the high-pressure reactor coolant system and the low-pressure RHR system piping. The valves are interlocked to RCS pressure and cannot be opened with RCS pressure greater than 402.5 psig. Defeating the interlocks to perform testing is not desirable since they are pressure isolation valves. If the inline valves were inadvertently opened during testing, an inter-system LOCA could occur.
Quarterly Part Stroke Exercising:	None, partial-valve exercising is precluded for the same reasons as full-stroke exercising.
Cold Shutdown Testing:	Exercise and time per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-03

System:	LHSI/RHR (E11)
Valve:	Q1(2)E11V0044
Other Valve No:	8889
Drawing:	D-175038-2 (F-3) D-205038-2 (F-3)
Category:	B
Class:	2
Function:	RHR Hx Discharge to RCS (HL).
Quarterly Test Requirements:	Exercise and time (ISTC-3510 and 5120).
Cold Shutdown Test Justification:	This valve is a normally closed motor-operated valve that is the boundary valve between the high pressure SI piping connected to the RCS and the low-pressure piping of the RHR system. Exercising during normal operation could result in an over-pressurization of the RHR system piping and result in an inter-system LOCA condition.
Quarterly Part Stroke Exercising:	None, partial-valve exercising is precluded for the same reasons as full-stroke exercising.
Cold Shutdown Testing:	Once per quarter the downstream pressure will be measured. If the pressure is $\leq$ 550 psig, the valve will be full-stroke exercised. If the pressure is > 550 psig, the valve will not be exercised that quarter. If the downstream pressure prohibits quarterly testing, the valve will be full-stroke exercised at cold shutdowns per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-04

System:	LHSI/RHR (E11)
Valve:	Q1(2)E11V0009A, B
Other Valve No:	8706A, B
Drawing:	D-175041 (B-8, C-8) D-205041 (B-8, C-8)
Category:	B
Class:	2
Function:	Charging Pump Suction from RHR Hx.
Quarterly Test Requirements:	Exercise and time (ISTC-3510 and 5120).
Cold Shutdown Test Justification:	These valves can only be exercised when the RCS boron concentration is > 200 ppm because opening these valves connects the RWST to the charging pumps suction. These valves cannot be exercised at the end of core life when RCS boron concentration is ≤ 200 ppm because exercising could produce an elevated boron concentration and cause a plant transient. In order to preclude a transient at end of core life, the RHR system must be removed from service and declared inoperable in order to support valve exercising.
Quarterly Part Stroke Exercising:	Valves will be full-stroke exercised quarterly whenever RCS boron concentration is > 200 ppm. Partial-valve exercising at end of core life is precluded for the same reasons as described above.
Cold Shutdown Testing:	Exercise and time quarterly whenever RCS boron concentration is > 200 ppm. Exercise and time at cold shutdown when quarterly testing cannot be performed because RCS boron concentration is ≤ 200 ppm per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-05

NOT USED

COLD SHUTDOWN JUSTIFICATION
CSJ-V-06

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0253A, B, C
Other Valve No:	8149A, B, C
Drawing:	D-175039-1 (A-7, A-7, A-6) D-205039-1 (A-7, A-7, A-6)
Category:	A
Class:	2
Function:	Letdown Orifice Isolation.
Quarterly Test Requirements:	Exercise, time and fail (ISTC-3510, 5130 and 3560).
Cold Shutdown Test Justification:	The number of times that these valves are exercised during normal operation is limited to as few as possible. Each time these valves are stroked, a downstream pressure surge occurs, which may lift the downstream relief valve QV0255. If the relief valve lifts and fails to re-seat, a loss of CVCS letdown will result in a forced plant shutdown. The only method to mitigate this surge is by manual operation of the automatic pressure control valve (PCV 145) which is at best, coarse control.
Quarterly Part Stroke Exercising:	None, valves full-stroke on initiation and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise, time and fail per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-07

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0210
Other Valve No:	8442
Drawing:	D-175039-6 (G-10) D-205039-2 (H-8)
Category:	C
Class:	2
Function:	CVCS Boric Acid Filter to Charging Pump Suction.
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Cold Shutdown Test Justification:	The only way to verify forward flow operational readiness is by passing concentrated boric acid solution through check valve QV0210 to the charging pump suction header. Transfer of concentrated boric acid at ≥ 30 gpm with a concentration of 7000 to 7700 ppm to the charging pump suction during normal operation would subject the plant to an unnecessary safety challenge caused by a rapid temperature decrease in the RCS and ensuing power transient due to the boron addition.
Quarterly Part Stroke Exercising:	NA
Cold Shutdown Testing:	Full forward flow exercise per ISTC-3522(b). Bi-directional exercising in the non-safety related closed direction will be demonstrated by establishing a differential across the valve disc either with an outside pressure source, flow or other positive means.

COLD SHUTDOWN JUSTIFICATION
CSJ-V-08

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0254, Q1(2)E21V0257, Q1(2)E21V0258, Q1(2)E21V0565A, B
Other Valve No:	8152, 8107, 8108, 8175A, B
Drawing:	D-175039-1 (A-11, A-10, A-10): Q1V0254, Q1V0565A, B D-175039-6 (B-1, B-2): Q1V0257, Q1V0258 D-205039-1 (A-11, A-10, A-10): Q2V0254, Q2V0565A, B D-205039-6 (E-1, E-2): Q2V0257, Q2V0258
Category:	A (QV0254, QV0257, QV0258) B (QV0565A, B)
Class:	2
Function:	QV0254 - Letdown line CIV. QV0257 & QV0258 - CVCS Charging Pump Discharge to Regen. Hx. QV0565A, B - CVCS Letdown Line Isolation.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5120 (QV0257, QV0258). Exercise, time and fail per ISTC-3510, 5130, and 3560 (QV0254, QV0565A, QV0565B).
Cold Shutdown Test Justification:	These valves are in the normal letdown and charging lines to the RCS. Exercising during normal operation would disrupt normal RCS charging flow which could decrease significantly the capability of the CVCS to provide the proper boration ratio. Failure of each valve in the closed position, coincident with normal charging flow, could result in a high RCS water level trip. Because of these reasons and a potential for thermal shock to the Regenerative Heat Exchanger, valve testing will be delayed to cold shutdown.
Quarterly Part Stroke Exercising:	None, valves are equipped with full-stroke-only operators and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise and time (QV0257, QV0258). Exercise, time and fail (QV0254, QV0565A,B). Cold shutdown testing will be performed per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-09

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0336A, B, Q1(2)E21V0376A, B
Other Valve No:	LCV115B, LCV115D, LCV115C, LCV115E
Drawing:	D-175039-6 (B-9, F-9); D-175039-2 (H-8, H-8) D-205039-6 (B-9, F-9); D-205039-2 (H-8, H-8)
Category:	B
Class:	2
Function:	QV0336A, B - Charging Pump Suction from RWST. QV0376A, B - VCT Outlet Isolation.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5120.
Cold Shutdown Test Justification:	The RWST line block valves are interlocked to the VCT line block valves such that both sets cannot be opened at the same time. To exercise the VCT line block valves closed would require opening the RWST line block valves. If a RWST line block valve is opened during normal operation with a charging pump in operation, RWST water would be injected into the RCS. Injection of the highly borated RWST water into the RCS would adversely affect the boric acid concentration in the RCS and could cause a rapid decrease in RCS reactivity and temperature.
Quarterly Part Stroke Exercising:	None, valves full-stroke on initiation and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise and time per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-10

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0220A, B
Other Valve No:	8114A, B
Drawing:	D-175039-3 (F-5, H-5) D-205039-3 (F-5, H-5)
Category:	C
Class:	3
Function:	Boron Transfer Pump Discharge Line Check Valve.
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Cold Shutdown Test Justification:	The only way to verify full forward flow operability is by pumping concentrated boric acid from the boric acid tank through the inline flow element to the charging pump suction header. During normal operation, at least one charging pump is in operation such that concentrated boric acid would be injected directly into the reactor coolant system. The addition of concentrated boric acid to the reactor coolant system during normal operation would adversely affect RCS reactivity and temperature, and could cause a forced plant shutdown.
Quarterly Part Stroke Exercising:	NA
Cold Shutdown Testing:	Full-forward-flow operational readiness will be verified by measuring boric acid transfer flow rate at cold shutdown.

COLD SHUTDOWN JUSTIFICATION
CSJ-V-11

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0265
Other Valve No:	8106
Drawing:	D-175039-2 (H-4) D-205039-2 (D-4)
Category:	B
Class:	2
Function:	Charging Pump Minimum Flow Common Line Isolation Valve.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5120.
Cold Shutdown Test Justification:	This valve ensures pump cooling for all three HHSI pumps. Should an automatic ECCS actuation occur with this valve closed, there may be insufficient pump flow for all pumps to remain cooled.
Quarterly Part Stroke Exercising:	None, partial-valve exercising is precluded for the same reason as full-stroke exercising.
Cold Shutdown Testing:	Exercise and time per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-12

System:	Main Steam (N11)
Valve:	Q1(2)N11V0001A, B, C and Q1(2)N11V0002A, B, C
Other Valve No:	HV3369A, B, C and HV3370A, B, C
Drawing:	D-175033-1 (G-7, E-8, B-8, G-8, E-8, B-8) D-205033-1 (G-7, E-8, B-8, G-8, E-8, B-8)
Category:	BC
Class:	2
Function:	Main Steam Isolation Valves.
Quarterly Test Requirements:	Exercise, time and fail per ISTC-3510, 5130 and 3560.
Cold Shutdown Test Justification:	Exercising these valves during normal operation isolates one line of steam flow to the turbine and would cause a severe pressure transient in the main steam line which could result in a forced plant shutdown. Reducing power level to perform testing without causing a transient would significantly impact plant operations and power production.
Quarterly Part Stroke Exercising:	None. ISTC-3521(b) requires a partial exercise test quarterly if practical. The MSIVs are equipped with a test circuit that allows the valves to be partial exercised (approx. 10% closure) during operation at power. However, there have been numerous plant events reported in NPRDS associated with partial exercising the MSIVs during normal operation. These events involved instances where the test circuit did not function properly and the tested valve went full closed, resulting in a pressure transient and a subsequent plant trip. Therefore, no partial exercising will be performed during operation at power. (AIT 2002201825)
Cold Shutdown Testing:	Exercise, time, and fail per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-13

System:	Main Steam (N11)
Valve:	Q1(2)N11V0003A, B, C, D, E, and F
Other Valve No:	HV3368A, B, C, D, E and F
Drawing:	D-175033-1 (G-7, E-8, C-8, G-8, E-8, C-8) D-205033-1 (G-7, E-8, C-8, G-8, E-8, C-8)
Category:	B
Class:	2
Function:	Main Steam Isolation Bypass.
Quarterly Test Requirements:	Exercise, time and fail per ISTC 3510, 5130 and 3560.
Cold Shutdown Test Justification:	These valves are interlocked with the main steam isolation valves and cannot be opened when the main steam isolation valves are open.
Quarterly Part Stroke Exercising:	None, valves full-stroke on initiation and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise, time, and fail per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-14

System:	Feedwater (N21)
Valve:	Q1(2)N21V0001A, B, C
Other Valve No:	MOV3232A, B, C
Drawing:	D-175073 (G-7, E-7, B-7) D-205073 (G-7, E-7, B-7)
Category:	BC
Class:	2
Function:	Main Feedwater Supply.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5120.
Cold Shutdown Test Justification:	Exercising these valves closed during normal operation would result in a loss of feedwater to the associated steam generator. Isolation of feedwater flow during normal operation would cause a severe steam generator operating transient which could result in a forced plant shutdown and/or reactor trip.
Quarterly Part Stroke Exercising:	None, valves full-stroke on initiation and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise and time per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-15

System:	Auxiliary Feedwater (N23)
Valve:	Q1(2)N23V0002A, B, C, D, E, F, G, H Q1(2)N23V0003, Q1(2)N23V0006, Q1(2)N23V0007A, B, Q1(2)N23V0011A, B, C
Other Valve No:	NA
Drawing:	D-175007 (B-6, E-6, B-9, C-9, D-9, F-9, G-9, H-9, G-6, H-3, B-3, E-3, B-10, D-10, G-10) D-205007 (B-6, E-6, B-9, C-9, D-9, F-9, G-9, H-9, G-6, H-3, B-3, E-3, B-10, D-10, G-10)
Category:	C
Class:	2 (QV0011A, B, C) 3 (QV0002A, B, C, D, E, F, G, H, QV0003, QV0006, QV0007A, B)
Function:	QV0002A, B - MDAFW Pump Discharge to SGs. QV0002C, E, G - MDAFW Discharge Check Valve to SGs. QV0002D*, F*, H* - TDAFW Discharge Check Valve to SGs. QV0003* - TDAFW Pump Discharge Check Valve. QV0006* - TDAFW Pump Suction Check Valve. QV0007A, B - MDAFW Pump Suction Check Valve. QV0011A, B, C - AFW Discharge to SGs.
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221 for all class 3 valves mentioned in this cold shutdown justification (CSJ). Verify closure per ISTC-3510,3522, 5120, and 5221 for class 2 valves Q1(2)N23V0011A, B, C.
Cold Shutdown Test Justification:	The only way to full forward-flow exercise these valves is by operating the associated auxiliary feedwater pump and injecting relatively cold condensate water directly into the steam generators. The introduction of cold water into the hot steam generators during operation would result in large thermal shock to the feedwater nozzles and could cause cracking of the nozzles. The only way to exercise close valves Q1(2)N23V0011A, B, C, is to first open them. This would also inject cold condensate water into the steam generators; therefore, the same justification applies.
Quarterly Part Stroke Exercising:	NA

Cold Shutdown Testing: Valves Q1(2)N23V0011A, B, C will be STC each cold shutdown per ISTC-3521(c) and 3522(b). The other valves mentioned in the CSJ will be full-forward-flow exercised by injecting into the steam generators at CS per ISTC-3522(b).

* To perform a full forward flow test for the TDAFW check valves, sufficient motive force is not achieved until the plant enters Mode 3 following cold shutdown. Therefore, the TDAFW check valves will be full-forward flow tested prior to leaving Mode 3, following cold shutdown.

COLD SHUTDOWN JUSTIFICATION
CSJ-V-16

System:	Auxiliary Feedwater (N23)
Valve:	Q1(2)N23V0002D, F, H
Other Valve No:	NA
Drawing:	D-175007 (C-9, F-9, H-9) D-205007 (C-9, F-9, H-9)
Category:	C
Class:	3
Function:	TDAFW Discharge to SGs.
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Cold Shutdown Test Justification:	There are no system design provisions for verification of reverse flow closure. The only practical method to verify closure is by operating one of the MDAFW pumps and performing an individual flow test or pressure decay type test which confirms TDAFW discharge to SG check valve closure. Performing this type of test is impractical during normal operation since it renders the entire AFW system inoperable for an extended period of time.
Quarterly Part Stroke Exercising:	NA
Cold Shutdown Testing:	Reverse flow closure will be confirmed by performing an individual pressure decay or flow type test for each valve at cold shutdown and refueling. This test will confirm that the check valves are capable of reverse flow closure.

COLD SHUTDOWN JUSTIFICATION
CSJ-V-17

System:	Auxiliary Feedwater (N23)
Valve:	Q1(2)N23V0006, Q1(2)N23V0007A, B
Other Valve No:	NA
Drawing:	D-175007 (H-3, B-3, E-3) D-205007 (H-3, B-3, E-3)
Category:	C
Class:	3
Function:	QV0006 - TDAFW Pump Suction from CST. QV0007A, B - MDAFW Pump Suction from CST.
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Cold Shutdown Test Justification:	There are no system design provisions suitable for verification of reverse flow closure. The only practical method to verify closure would involve isolating the condensate storage tank and performing a pressure decay type test which confirms that the check valve is closed. Performing this type test during normal operation would render the associated AFW pump inoperable for an extended period of time.
Quarterly Part Stroke Exercising:	NA
Cold Shutdown Testing:	Reverse flow closure will be confirmed by performing a pressure decay type test during cold shutdown and refueling. This pressure decay test will confirm that the check valve is capable of reverse flow closure.

COLD SHUTDOWN JUSTIFICATION
CSJ-V-18

System:	Containment Purge (P13)
Valve:	Q1(2)P13V0281, Q1(2)P13V0282, Q1(2)P13V0283, Q1(2)P13V0284
Other Valve No:	HV3198D, HV3197, HV3196, HV3198A
Drawing:	D-175010-1 (G-10, E-10): QV0282, & QV0283 D-175010-2 (F-3, D-3): QV0281 & QV0284 D-205010-1 (G-9, E-9): QV0282, & QV0283 D-205010-2 (F-3, D-3): QV0281 & QV0284
Category:	A
Class:	2
Function:	QV0281, QV0282 - Purge Supply Damper. QV0283, QV0284 - Purge Exhaust Damper.
Quarterly Test Requirements:	Exercise, time, and fail per ISTC-3510, 5130 and 3560.
Cold Shutdown Test Justification:	Plant Technical Specifications require maintaining these valves closed during plant operating modes 1, 2, 3, and 4.
Quarterly Part Stroke Exercising:	None, valves are administratively maintained closed during normal operation.
Cold Shutdown Testing:	Exercise, time, and fail per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-19

System:	Service Water (P16)
Valve:	Q1(2)P16V0514, Q1(2)P16V0515, Q1(2)P16V0516, Q1(2)P16V0517 Q1(2)P16V0540, Q1(2)P16V0541, Q1(2)P16V0542, Q1(2)P16V0543
Other Valve No:	NA
Drawing:	D-170119-2 (E-6, E-4, D-5, D-4, D-9, B-9, D-10, B-10) D-200013-2 (E-5, E-4, D-5, D-3, D-9, B-9, D-10, B-10)
Category:	B
Class:	3
Function:	QV0514, QV0515, QV0516, QV0517 - SW Supply to Turbine Bldg. QV0540, QV0541, QV0542, QV0543 - SW Return from Turbine Bldg.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5120.
Cold Shutdown Test Justification:	The design of the turbine building service water supply and return system makes inadvertent service water isolation possible while exercising these valves. This is possible because train separation is not maintained downstream of the supply isolation valves and there are flow sensing devices in each train. These devices are designed to isolate the turbine building on a high flow condition resulting from a large line break. As the flow to one train is isolated during valve exercising, the flow through the other train will increase and possibly exceed the maximum flow limit, resulting in automatic service water isolation and a resultant turbine trip.
Quarterly Part Stroke Exercising:	None, valves full-stroke on initiation and cannot be partial-stroke exercised.
Cold Shutdown Testing:	Exercise and time per ISTC-3521(c).

COLD SHUTDOWN JUSTIFICATION
CSJ-V-20

Valve:	Q2P19V0004
Other Valve No:	NA
Drawing:	D-205034-4 (B-6)
System:	Instrument Air (P19)
Category:	AC
Class:	2
Function:	Backup Air Supply to Pressurizer PORVs.
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Cold Shutdown Test Justification:	The only practical way to forward flow exercise this valve would be to isolate the normal instrument air supply to the PORVs, utilize the backup nitrogen supply and exercise a PORV. Isolating the normal instrument air supply outside the containment (HV3611) results in isolation of the normal air supply to all components located inside the containment that rely on normal instrument air for their supply. thus rendering them inoperable. Isolating the normal instrument air supply to the PORVs only (V0139) requires a containment entry which is not practical during normal operation.
Quarterly Part Stroke Exercising:	NA.
Cold Shutdown Testing:	Valve will be forward-flow exercised by exercising a PORV at cold shutdown per ISTC-3522(b).

14.0 VALVE REFUELING OUTAGE JUSTIFICATION LOG

ROJ	*Component ID*	*Status*
ROJ-V-1	Q1(2)B13V0038	Deleted
ROJ-V-2	Q1(2)B13V0054	Deleted
ROJ-V-03	Q1(2)E11V0042A & B	
ROJ-V-4	Q1(2)E11V0051A, B & C	Deleted
ROJ-V-5	Q1(2)E11V0021A, B & C	Deleted
ROJ-V-06	Q1(2)E11V0028	
ROJ-V-7	Q1(2)E13V0002A & B	Deleted
ROJ-V-08	Q1E13V00014	Deleted
ROJ-V-9	Q1(2)E14V0001	Deleted
ROJ-V-10	Q1(2)E21V0026	
ROJ-V-11	Q1(2)E21V0052 Q1(2)E21V0058	Deleted
ROJ-V-12	Q1(2)E21V0119	Deleted
ROJ-V-13	Q1(2)E21V0062A, B & C Q1(2)E21V0066A, B & C Q1(2)E21V0078A, B & C Q1(2)E21V0079A, B & C	Deleted
ROJ-V-14	Q1(2)E21V0016A & B Q1(2)E21V0063 Q1(2)E21V0068 Q1(2)E21V0072	
ROJ-V-15	Q1(2)E21V0115A, B & C	
ROJ-V-16	Q1(2)E21V0122A, B & C	
ROJ-V-17	Q1(2)E21V0249A & B	
ROJ-V-18	Q1(2)E21V0077C	Deleted

ROJ	*Component ID*	*Status*
ROJ-V-19	Q1(2)E21V0032A, B & C Q1(2)E21V0037A, B & C	Deleted
ROJ-V-20	Q1(2)E21V0213	Deleted
ROJ-V-21	Q1(2)E21V0076A & B	Deleted
ROJ-V-22	Q1(2)E21V0326A & B Q1(2)E21V0327A & B	
ROJ-V-23	Q1(2)E21V0121A, B & C	Deleted
ROJ-V-24	Q1(2)G21V0204	
ROJ-V-25	Q2G21V0291	
ROJ-V-26	Q1(2)N12V0010A & B	Deleted
ROJ-V-27	Q1(2)N23V0013A & B Q1(2)N23V0014A, B & C	
ROJ-V-28	Q1(2)P16V0075	Deleted
ROJ-V-29	Q1P16V0636A & B	
ROJ-V-30	Q1(2)P16V0206A, B, C & D	Deleted
ROJ-V-31	Q1(2)P16V0659 Q1(2)P16V0660	Deleted
ROJ-V-32	Q1(2)P16V0564 Q1(2)P16V0565	Deleted
ROJ-V-33	Q1(2)P17V0082 Q1(2)P17V0097 Q1(2)P17V0099 Q1(2)P17HV3045 Q1(2)P17HV3184	
ROJ-V-34	Q1(2)P17V0083 Q1(2)P17V0159	Deleted
ROJ-V-35	Q1(2)P17V0087A, B & C	Deleted
ROJ-V-36	Q1(2)P17HV3067 Q1(2)P17HV3095 Q1(2)P17HV3443	

ROJ	*Component ID*	*Status*
ROJ-V-37	Q2P17V0111	Deleted
ROJ-V-38	Q1P19V0002	
ROJ-V-39	Q2P19V0004	
ROJ-V-40	Q1(2)P19HV3611	
ROJ-V-41	Q1(2)P16V0549	

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-1

Deleted

ROJ-V-2

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-03

System:	LHSI/RHR (E11)
Valve:	Q1(2)E11V0042A, B
Other Valve No:	8974B, A
Drawing/Coord:	D-175038-2 (G-2, E-2) D-205038-2 (G-2, E-2)
Category:	AC
Class:	2
Function:	RHR Pump Discharge to SIS Injection CL
Quarterly Test Requirements:	Verify reverse flow closure and full forward-flow exercise per ISTC-3510 and 5221.
Basis for Justification:	Quarterly verification of reverse flow closure is not practicable because the valves are located inside the containment, they are not equipped with any instrumentation to allow closure verification, and any testing would require personnel entry into the containment. The only practical way of verifying valve closure is by performing a leakage type test. These are PIVs and are required to be leak tested per Tech Specs. NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up leak rate test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.
Refueling Outage Testing:	Reverse flow closure will be verified in conjunction with the PIV leakage testing in accordance with the Technical Specification surveillance requirement. This testing is consistent with the guidance found in NUREG-1482, Rev. 2, Section 4.1.6. Valves will be full-forward flow exercised each refueling outage.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-04

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-05

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-06

System:	LHSI/RHR (E11)
Valve:	Q1(2)E11V0028
Other Valve No:	8958
Drawing/Coord:	D-175038-2 (F-11) D-205038-2 (F-11)
Category:	C
Class:	2
Function:	LHSI/RHR Pump Suction from RWST
Quarterly Test Requirements:	Verify reverse flow closure capability in accordance with ISTC-3510 and 5221.
Basis for Justification:	There are no system design provisions to allow closure verification for QV0028. The only practical method to verify valve closure is by performing an individual flow test or pressure decay type test utilizing leakrate type test equipment. Performing this type test is impractical during normal operation since it renders the entire RHR system inoperable for an extended period of time. In addition, NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up leakage type test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.
Refueling Outage Testing:	Reverse flow closure of QV0028 will be verified by a pressure decay or flow type test, or other positive means during refueling outages when the RHR system is not required to be operable.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-7

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-08
(Unit 1 Only)

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-9

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-10

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0026
Other Valve No:	8926
Drawing/Coord:	D-175038-1 (E-12) D-205038-1 (E-11)
Category:	C
Class:	2
Function:	RWST to Charging Pump Suction Check Valve
Quarterly Test Requirements:	Verify forward flow operational readiness and reverse flow closure capability per ISTC-3510 and 5221.
Basis for Justification:	The only practical method of full flow exercising this valve is by aligning the RWST to the charging pump suction and injecting full design flow into the RCS. Full flow exercising during normal operation is impossible because the charging pumps cannot develop full rated flow against RCS pressure. Injecting the highly borated RWST water into the RCS during normal operation would adversely affect reactivity and RCS temperature. The only practical way of verifying valve closure is by performing an individual flow test, or pressure decay type test, utilizing leakrate type test equipment. NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up leakrate type test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.
Refueling Outage Testing:	The valve will be full exercised with flow during each refueling outage. Reverse flow closure will be verified by a pressure decay or flow type test, or other positive means.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-11

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-12

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-13

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-14

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0016A,B, Q1(2)E21V0063, Q1(2)E21V0068, Q1(2)E21V0072
Other Valve No:	8803A, B / 8885 / 8886 / 8884
Drawing/Coord:	D-175038-1 (B-6, H-7, J-6, G-7, G-7) D-205038-1 (B-6, H-6, J-6, G-6, G-6)
Category:	B
Class:	2
Function:	QV0016A, B - HHSI to RCS CL Isolation QV0063 - Charging (HHSI) Pumps Discharge to RCS (CL) QV0068 - Charging (HHSI) Pumps Discharge to RCS (HL) QV0072 - Charging (HHSI) Pumps Discharge to RCS (HL)
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
Basis for Justification:	It is impractical to exercise these valves during normal operation because all of the associated flow paths bypass the regenerative heat exchanger, and establishing flow through these valves would result in relatively cold water being injected into the RCS. The thermal stresses produced by injecting cold water could greatly reduce the service life of the injection nozzles. Additionally, pressurizer level would rise uncontrollably during the test possibly leading to an RCS pressurizer high level Rx trip. These valves cannot be exercised during cold shutdowns because the RCS may not contain sufficient expansion volume to accommodate the flow required, and a low temperature overpressure condition could occur.
Q/CS Part Stroke Testing:	These motor operated valves are not designed for partial stroke exercising.
Refueling Outage Testing:	Exercise and time during refueling outage when the RCS is drained down to the mid-plane level and all charging pumps are secured or placed in an alignment that allows testing.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-15

System: SI/CVCS (E21)

Valve: Q1(2)E21V0115A,B,C

Other Valve No: 8368A, B, C

Drawing/Coord: D-175039-1 (G-2 for all)
D-205039-1 (G-2 for all)

Category: C

Class: 2

Function: CVCS Seal Injection to RCP

Quarterly Test Requirements: Verify reverse flow closure per ISTC-3510 and 5221.

Basis for Justification: Reverse flow closure testing requires isolation of seal injection flow to the RCPs, therefore testing during normal operation is impractical.

Valves are located inside containment and testing requires personnel entry into the containment to position associated system valves and to set up testing equipment. Personnel entry into the containment and performance of this test has the potential to:

- increase personnel radiation exposure,
- increase the potential for RCP seal and bearing damage due to interruption of seal injection flow, and
- prolong the shutdown due to the stringent requirements on personnel entry into containment and the time required to perform the test.

Therefore, the only practical method available to verify reverse flow closure is by pressure decay or leak testing at each refueling outage.

Refueling Outage Testing: Reverse flow closure will be confirmed by a pressure decay type test or leak test (similar to Appendix J, Type C test) at each refueling outage. This type test will confirm that the check valve is capable of reverse flow closure. This is consistent with the guidance found in NRC NUREG-1482, Rev. 2, Section 4.1.6.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-16

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0122A,B,C
Other Valve No:	8481A, B, C
Drawing/Coord:	D-175039-6 (F-4, G-4, H-4) D-205039-6 (C-6, E-6, G-5)
Category:	C
Class:	2
Function:	Charging Pump Discharge
Quarterly Test Requirements:	Verify forward-flow operational readiness per ISTC-3510 and 5221.
Basis for Justification:	Charging flow during normal operation is automatically controlled by downstream flow control valve QV0347 in response to RCS operating conditions. To inject full flow into the RCS during normal operation would result in undesirable RCS boron concentrations and system pressure, temperature and level transients. Full-flow exercising these valves at cold shutdown would result in RCS pressure and level transients due to limitations on letdown capability.
Refueling Outage Testing:	Verification of full forward flow operational readiness will be performed each refueling outage.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-17

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0249A,B
Other Valve No:	8112, 8100
Drawing/Coord:	D-175039-1 (C-11, C-11) D-205039-1 (C-11, C-11)
Category:	A
Class:	2
Function:	RCP Seal to Seal Water Hx
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
Basis for Justification:	Exercising these valves during normal operation or at cold shutdown results in a loss of normal seal water to the RCS pump seals. If seal water is terminated, reactor coolant is forced from the high pressure RCS into the seals. Reactor coolant normally contains a high particulate matter concentration which is carried with RCS in-leakage and contaminates the seals. Westinghouse has studied this problem (see FNP Manual U-214849, para. 6.1.1, Note 3) and recommends that seal flow be maintained at cold shutdown, as well as during normal operations.
Q/CS Part Stroke Testing:	Partial exercising is precluded for the same reasons stated above.
Refueling Outage Testing:	Exercise and time at refueling outages when the RCS is vented or open to the atmosphere.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-18

Deleted

EFUELING OUTAGE JUSTIFICATIONS

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-19

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-20

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-21

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-22

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0326A, B and Q1(2)E21V0327A, B
Other Valve No:	8132A, B and 8133A, B
Drawing/Coord:	D-175039-6 (D-5, E-5 and F-5) D-205039-6 (D-5, E-5 and F-5)
Category:	B
Class:	2
Function:	CVCS Charging Pump Discharge Header Block Valves
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
Basis for Justification:	These valves are normally open and remain open during safety injection. During normal operation, only one charging pump is in operation supplying both charging water to the RCS and seal water to the RCS pump seals. To exercise these valves closed would require starting a second charging pump in order to continue to provide charging and seal water flow. Further, the closure of either of these valves places the high head safety injection system into an alignment different than that required for accident conditions. Since these valves do not receive an automatic signal to open, re-alignment to their safety injection position would require operator action while responding to the accident situation. The low safety significance of these valves (Priority level 3), as established by the FNP MOV Program, does not warrant the risk of removing the system from the normal alignment.
Q/CS Part Stroke Testing:	None. The operating controls for these MOVs were not designed to allow partial stroking.
Refueling Outage Testing:	Exercise and time at refueling outages.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-23

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-24

System: Liquid Waste Disposal (G21)

Valve: Q1(2)G21V0204

Other Valve No: NA

Drawing/Coord: D-175004-1 (G-9)
D-205004-1 (G-9)

Category: AC

Class: 2

Function: CTMT Sump Recirculation

Quarterly Test Requirements: Verify forward flow operational readiness and reverse flow closure capability per ISTC-3510 and 5221.

Basis for Justification: This check valve provides for pressure equalization for containment penetration 33 in case of thermal expansion of trapped fluid in a post-accident environment. It also provides a recirculation flow path to prevent pump runout, thus protecting the containment sump pumps. This valve is located inside containment and is not equipped with any instrumentation that can be utilized to verify forward flow exercising or reverse flow closure. Any practical testing method would require personnel entry inside the containment.

The only practical way of verifying valve closure is by performing a leakage type test, such as the Appendix J, Type C test. NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up Appendix J, Type C test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.

This valve does not have a design required flow rate since its only function is for containment isolation and pressure equalization due to thermal expansion of a water solid boundary. Therefore, any degree of opening of the check valve would be adequate to verify that it is capable of performing its thermal equalization function.

ROJ-V-24 (continued)

Refueling Outage Testing:

Reverse flow closure will be verified by an Appendix J, Type C test, other seat leakage testing similar to the Type C test, or other positive means. The Appendix J, Type C test will be performed during certain refueling outages, at frequencies per the requirements of Appendix J, Option B. Other seat leakage testing similar to the Type C test, or other positive means of confirming reverse flow closure, will be used during all other refueling outages. This testing is consistent with the guidance found in NUREG 1482, Rev. 2, Section 4.1.6.

Valve QV0204 will be verified to open each refueling outage by flowing air or water through the valve in the forward direction and observing flow out of an open test connection.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-25

System: Liquid Waste Disposal (G21)

Valve: Q2G21V0291

Other Valve No: NA

Drawing/Coord: D-205004-1 (H-8)

Category: AC

Class: 2

Function: Containment Sump Pump Discharge

Quarterly Test Requirements: Verify forward-flow operational readiness and reverse flow closure capability per ISTC-3510 and 5221.

Basis for Justification: This check valve provides for pressure equalization of the piping between CIVs HV3376 and HV3377 (Pen. 78) to provide over pressure protection should the containment sump pump discharge line be isolated during an accident. The valve, as part of the penetration, also provides a containment isolation function. This valve is located inside containment and there is no instrumentation that could be utilized to verify forward flow exercising or reverse flow closure.

The best and only practical way of verifying valve closure for this valve is by performing a seat leakage type test, such as the Appendix J, Type C test. The NRC, in NUREG 1482, Rev. 2, Section 4.1.6, has stated that the need to set up Appendix J, Type C test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.

This valve does not have a design required flow rate since its only function is for containment isolation and pressure equalization due to thermal expansion of a water solid boundary. Therefore, any degree of opening of the check valve would be adequate to verify that it is capable of performing its thermal equalization function.

ROJ-V-25 (continued)

Refueling Outage Testing:

Reverse flow closure will be verified by an Appendix J, Type C test, other seat leakage testing similar to the Type C test, or other positive means. The Appendix J, Type C test will be performed during certain refueling outages, at frequencies per the requirements of Appendix J, Option B. Other seat leakage testing similar to the Type C test, or other positive means of confirming reverse flow closure, will be used during all other refueling outages. This testing is consistent with the guidance found in NUREG 1482, Rev. 2, Section 4.1.6.

Valve QV0291 will be verified to open each refueling outage by flowing air or water through the valve in the forward direction and observing flow out of an open test connection.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-26

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-27

System:	Auxiliary Feedwater (N23)
Valve:	Q1(2)N23V0013A, B, Q1(2)N23V0014A, B, C
Other Valve No:	MOV3210A, B, MOV3209A, B, MOV3216
Drawing/Coord:	D-175007 (A-3, D-3, A-2, D-2, G-3) D-205007 (A-3, D-3, A-2, D-2, G-3)
Category:	B
Class:	3
Function:	QV0013A, B & QV0014A, B - MDAFW Pump Service Water Inlet Valve QV0014C - TDAFW Pump Service Water Inlet Valve
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
Basis for Justification:	Exercising these valves open during normal operation or at cold shutdown would introduce chlorides and fluorides into the auxiliary feedwater system and subsequently into the steam generators. The presence of chlorides and fluorides in the secondary water chemistry has been proven to contribute to steam generator degradation. Initiation of auxiliary feedwater during testing would inject a large quantity of service water directly into the steam generators. The only way to isolate the service water system from the auxiliary feedwater system to perform testing is by closing in line manual block valves QV0015E, QV0016A, and QV0016B. If an auxiliary feedwater initiation occurred during testing, one train of auxiliary feedwater would be disabled. In addition, there is no way to verify that subsequent flushing of the affected line has removed all of the service water contaminants.
Q/CS Part Stroke Testing:	None. Partial valve exercising is precluded for the same reasons as stated above.
Refueling Outage Testing:	These valves will be exercised and timed each refueling outage when the service water system can be isolated from the auxiliary feedwater system and extensive flushing of any residual service water can be performed.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-28

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-29

System:	Service Water (P16)
Valve:	Q1P16V0636A,B
Other Valve No:	NA
Drawing/Coord:	D-175013 (E-2, E-11, E-2, E-11) D-200014 (D-9 and D-9)
Category:	C
Class:	3
Function:	Treated and Non-Treated SW to SW Pump Seals and Motor Coolers
Quarterly Test Requirements:	Verify forward flow operational readiness and reverse-flow closure capability per ISTC-3510 and 5221.
Basis for Justification:	These check valves are located at the junction of cooling/lube water supplies from the cyclone separator (non-safety related) and the service water pumps. There are no system design provisions to facilitate monitoring any parameters that can be utilized to verify either full forward flow operational readiness or reverse-flow closure.
Refueling Outage Testing:	These valves will be disassembled and manually full stroke exercised on a sampling basis per ISTC-5221(c) during refueling outages. The valve internals will be verified to be structurally sound (no loose or corroded parts), and the disk will be manually exercised to verify full stroke capability. The valves will be part stroked with flow after reassembly. The necessary valve obturator movement, verifying part stroke exercising, will be confirmed by changes in system pressure, temperature, proper sequencing of the cooling/lube water supplies from the cyclone separator and service water pumps, or other positive means, or through the use of ultrasonic (or similar) flow measuring devices. Part stroke exercising in the forward direction will be performed subsequent to reassembly.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-30

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-31

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-32

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-33

System:	Component Cooling Water (P17)
Valve:	Q1(2)P17V0082, Q1(2)P17V0097, Q1(2)P17V0099, Q1(2)P17HV3045, Q1P17HV3184
Other Valve No:	MOV3052, MOV3046, MOV3182, NA, NA
Drawing/Coord:	D-175002-2/C-1, B-5, C-6, D-6, D-5 D-205002-2/C-1, B-6, C-7, D-6, D-6
Category:	A
Class:	2
Function:	QV0082 - CCW to RCP QV0097/QV0099 - CCW Return from RCP Bearings HV3045/HV3184 - CCW Return from RCP Thermal Barrier
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121 (QV0082, QV0097, QV0099). Exercise, time and fail per ISTC-3510, 5131 and 3560 (HV3045&HV3184).
Basis for Justification:	These are the CIVs in the CCW supply and return lines to the RCP thermal barriers and bearing oil coolers. A loss of cooling water to these components for more than a few minutes could result in extensive damage to the reactor coolant pumps. Westinghouse recommends that cooling water be provided to these components at all times when RCS temperature is ≥ 200° F. In addition, plant operating procedures require at least one RCP to be in operation when RCS temperatures are > 160° F for hydrogen control of the reactor coolant. For short duration cold shutdowns, where the RCS temperature is maintained near 200° F, stopping cooling water to these components could result in RCP degradation and unnecessary pump repairs.
Q/CS Part Stroke Testing:	None. These valves full-stroke exercise on initiation and cannot be partial-stroke exercised.
Refueling Outage Testing:	Exercise, time, and fail (as appropriate) at each refueling outage when all reactor coolant pumps are secured. This is consistent with NRC NUREG-1482, Rev. 2, Section 3.1.1.4.

ROJ-V-34

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-35

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-36

System:	Component Cooling Water (P17)
Valve:	Q1(2)P17HV3067, Q1(2)P17HV3095, Q1(2)P17HV3443
Other Valve No:	NA
Drawing/Coord:	D-175002-2 (F-6, F-1, F-5) D-205002-2 (E-6, E-1, E-5)
Category:	A
Class:	2
Function:	CCW to the Excess Letdown and Reactor Coolant Drain Tank Heat Exchangers
Quarterly Test Requirements:	Exercise, time and fail per ISTC-3510, 5131 and 3560.
Basis for Justification:	Exercising these valves closed creates a pressure/flow transient in the RCS pump thermal barrier and oil cooler lines. Pressure and flow are monitored at the discharge of the thermal barrier cooling water lines and will automatically close valve HV3184 on an increase of pressure or flow rate. Operating history indicates that the transient caused by closing these valves may be sufficient to cause HV3184 to close. Loss of cooling water to the pumps thermal barrier removes one of two cooling sources to the RCP seals. Closure of this cooling path is considered a threat to the seal package as part of the reactor coolant system boundary. Plant operating procedures require maintaining CCW flow to the thermal barriers or seal injection flow at all times when RCS temperature is greater than 150°F. The plant maintenance history and equipment failure trending program indicate that these valves are highly reliable. The increased risk of transients versus any gain in operational confidence level associated with quarterly testing is thus not warranted.
Q/CS Part Stroke Testing:	None. The operating controls for these valves were not designed to allow partial stroking.
Refueling Outage Testing:	Exercise, time and fail at refueling outage when all reactor coolant pumps are secured.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-37

Deleted

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-38

System: Instrument Air (P19)

Valve: Q1P19V0002

Other Valve No: NA

Drawing/Coord: D-175034-3 (E-3)

Category: AC

Class: 2

Function: CTMT Instrument Air Supply

Quarterly Test Requirements: Verify reverse flow closure per ISTC-3510 and 5221.

Basis for Justification: This valve is located inside the containment and is not equipped with any instrumentation that can be utilized to verify closure exercising. Any practical test method would require personnel entry into the containment.

The only practical way of verifying valve closure is by performing a leakage type test, such as the Appendix J, Type C test. Type C testing for this valve requires the complete isolation of instrument air to the containment. Isolating instrument air to the containment affects the operation of all air operated instrument controls and valves while the instrument air header is isolated. The affected components are required to remain inservice during cold shutdown, thus testing during cold shutdown is also impractical. In addition, NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up Appendix J, Type C test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.

Refueling Outage Testing: Reverse flow closure will be verified by an Appendix J, Type C test, other seat leakage testing similar to the Type C test, or other positive means. The Appendix J, Type C test will be performed during certain refueling outages, at frequencies per the requirements of Appendix J, Option B. Other seat leakage testing similar to the Type C test, or other positive means of confirming reverse flow closure, will be used during all other refueling outages. This testing is consistent with the guidance found in NUREG 1482, Rev. 2, Section 4.1.6. Bi-directional exercising in the non-safety open direction will be satisfied by normal system operation.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-39

System:	Instrument Air (P19)
Valve:	Q2P19V0004
Other Valve No:	NA
Drawing/Coord:	D-205034-4 (B-6)
Category:	AC
Class:	2
Function:	Backup Air Supply to Pressurizer PORVs
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Basis for Justification:	This valve is located inside the containment and is not equipped with any instrumentation that can be utilized to verify closure exercising. Any practical test method would require personnel entry into the containment. The only practical way of verifying valve closure is by performing a leakage type test, such as the Appendix J, Type C test. Type C testing for this valve requires the isolation of backup air to the PORVs which is not practical during normal operation or cold shutdown. In addition, NRC NUREG-1482, Rev. 2, Section 4.1.6, states that the need to set up Appendix J, Type C test equipment is adequate justification to defer backflow testing of a check valve until a refueling outage.
Refueling Outage Testing:	Reverse flow closure will be verified by an Appendix J, Type C test, other seat leakage testing similar to the Type C test, or other positive means. The Appendix J, Type C test will be performed during certain refueling outages, at frequencies per the requirements of Appendix J, Option B. Other seat leakage testing similar to the Type C test, or other positive means of confirming reverse flow closure, will be used during all other refueling outages. This testing is consistent with the guidance found in NUREG 1482, Rev. 2, Section 4.1.6.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-40

System:	Instrument Air (P19)
Valve:	Q1(2)P19HV3611
Other Valve No:	NA
Drawing/Coord:	D-175034-2 (E-11) D-205034-2 (E-10)
Category:	A
Class:	2
Function:	CTMT Instrument Air Supply
Quarterly Test Requirements:	Exercise, time and fail test per ISTC-3510, 5131, and 3560.
Basis for Justification:	Testing this valve requires the complete isolation of instrument air to the containment. Isolating instrument air to the containment affects the operation of all air operated instrument controls and valves while the instrument air header is isolated. The affected components are required to remain in service during normal operation and cold shutdown.
Q/CS Part Stroke Testing:	Part stroke testing verification quarterly or during cold shutdown is also not practicable for the same reasons as stated above.
Refueling Outage Testing:	Valve will be exercised, stroke timed and fail position tested at refueling outages.

REFUELING OUTAGE JUSTIFICATIONS

ROJ-V-41

System:	Service Water (P16)
Valve:	Q1(2)P16V0549
Other Valve No:	NA
Drawing/Coord:	D-170119-2 (E-12)
Category:	B
Class:	3
Function:	SW Return to Standpipe Line Is Valve
Quarterly Test Requirements:	Verify closure in accordance with ISTC-3510.
Basis for Justification:	The valve has a passive operation during normal operation. It remains open and is essentially an extension of the attached pipe. It is impractical to test this valve in the close direction quarterly because power is removed from the valve during normal operation. Per FSD A-181001 Section 5.17.6.2, the circuit breaker is "maintained in the open position to ensure valve remains open in case of fire. The closing of circuit breaker shall be administratively controlled." FNP-1-SOP-24.0A verifies that power is removed during operation. Since the valve is open with power removed during normal operation, the valve also transforms into a manually operated valve during this time.
Refueling Outage Testing:	During refueling, the valve will be full-stroke exercised in the close direction.