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NL-07-1418

August 14, 2007

Docket Nos.: 50-348 50-364

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

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

Ladies and Gentlemen:

Pursuant to 10CFR50.55a(f)(5)(i), Southern Nuclear Operating Company (SNC) hereby submits the Fourth 10-Year Interval Inservice Testing (IST) Program for Farley Nuclear Plant (FNP) Units 1 and 2 for NRC review and approval. In accordance with 10 CFR 50.55a(f)(4)(ii), the updated IST program was written to meet the requirements of the ASME OM Code 2001 edition though 2003 addenda, except where proposed requests for alternatives and/or proposed requests for relief are documented in the Farley IST Program. The current IST Interval (Third) began on December 1, 1997 and will end on November 30, 2007. The Fourth IST Interval begins on December 1, 2007 and ends on November 30, 2017.

SNC intends to utilize the guidance provided in NRC NUREG-1482, Revision 1, paragraph 3.3.3 when implementing the updated Fourth Interval IST Program. A phase-in implementation is proposed because update of the IST Program Document results in the required revision of approximately 100 surveillance procedures. Using the NUREG guidance, SNC will phase-out the Third Interval IST requirements and phase-in the Fourth Interval requirements over a 12-month period according to the following schedule.

- SNC will revise affected IST surveillance procedures in accordance with Enclosure 2.
 - Enclosure 2 includes a listing of all affected procedures for Units 1 and 2.
 - This schedule requires approximately 25% of the procedures to be updated and made effective each quarter, beginning December 1, 2007 and ending November 30, 2008.
- SNC will begin implementation of the updated IST Program Document on December 1, 2007 using a phased-in approach.

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- A combination of existing IST procedures and Fourth Interval procedures will be performed during the phase-in period.
- Existing procedures will be replaced with updated procedures in accordance with the schedule proposed above.
- All surveillance procedures will be updated and the Fourth Interval IST Program will be in compliance with the updated IST Program Document by December 1, 2008.

Since phased-in implementation is discussed in NUREG-1482, Revision 1, Section 3.3.3, SNC has determined that relief or exemption is not required. SNC plans to follow the schedule as outlined above and as described in the second paragraph of "NRC Recommendations" in NUREG-1482, Revision 1, Section 3.3.3. The attached phase-in schedule shows that only procedures performed during refueling outages will be updated prior to each unit's outage, as required. All other procedures will be phased in during the remainder of the phase-in period. If progress of procedure updates fall significantly behind the attached schedule, then SNC will notify the NRC.

Should the NRC staff not agree with this plan for implementation, SNC requests notification by October 1, 2007 due to the significant work load associated with revising procedures prior to December 1, 2007.

This same type of phase-in implementation plan was previously agreed upon by the NRC for the Edwin I. Hatch Nuclear Plant (HNP) in February 2006. The phase-in implementation plan for HNP was documented in SNC letter NL-05-2304.

This letter contains no NRC commitments. Should you have any questions in this regard, please advise.

Sincerely,

B. J. Gebrge Manager, Nuclear Licensing

BJG/JLS/daj

Enclosures:

- 1. FNP Units 1 and 2 Fourth 10-Year Interval IST Program
- 2. Detailed Phase-in Schedule for FNP Units 1 & 2 Affected Procedures

cc: <u>Southern Nuclear Operating Company</u> Mr. J. T. Gasser, Executive Vice President Mr. J. R. Johnson, Vice President – Farley Mr. D. H. Jones, Vice President – Engineering RTYPE: CFA04.054; LC# 14625

> <u>U. S. Nuclear Regulatory Commission</u> Dr. W. D. Travers, Regional Administrator Ms. K. R. Cotton, NRR Project Manager – Farley Mr. E. L. Crowe, Senior Resident Inspector – Farley

Joseph M. Farley Nuclear Plant – Units 1 and 2

Enclosure 1

FNP Units 1 and 2 Fourth 10-Year Interval IST Program

Joseph M. Farley Nuclear Plant Units 1 & 2 4th 10-Year Interval Inservice Testing Program

V E R	DATE	DESCRIPTION	M&IS PREPD BY	M&IS REVD BY	M&IS APPV BY
1.0	06/08/07	Initial issue of program manual to NRC for review and approval.	JRR BET	BCT AMB	las

FNP IST APPROVAL
Written By: <u>M&IS Department</u>
Reviewed By: Multit
Programs. Supv: W. B.M.
Mgr. Engr: Michan A
PRB Review: Ma
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1.0 IST PROGRAM INTRODUCTION

1.1 <u>GENERAL</u>

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 and Improved Technical Specification 5.5.8. Provided below are important dates relative to the IST Program.

	FNP Unit 1	FNP Unit 2
Construction Permit Issued Date	08/16/72	08/16/72
Commercial Operation	12/01/1977	07/30/1981
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

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 for the 4th 10-year interval is the same for both units.

According to 10CFR50.55a(f)(4)(ii), following completion of the first 10-year inspection interval, successive 10-year inspection intervals must comply with the requirements of the latest edition and addenda of the American Society of Mechanical Engineers (ASME) Code incorporated by reference in paragraph (b) of 10CFR50.55a twelve months prior to the start of the 10-year inspection interval. The Edition of 10CFR50.55a in effect 12/01/2006 (October 1, 2004 version) references the ASME OM Code 2001 Edition with Addenda through OMb-2003, as the applicable Code. The OM Code, or the Code, in this document corresponds to the aforementioned Edition and Addenda.

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

This document includes inservice testing requirements for pumps and valves. The inservice testing of dynamic restraints (snubbers) is not included in this program and at the present time is considered to be part of the Plant Technical Requirements Manual.

1.2 EFFECTIVE DATE

The IST Program for the 4th 10-year interval is effective beginning December 1, 2007 and will be utilized through November 30, 2017.

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1.3 <u>SCOPE</u>

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.

1.4 <u>COMPONENT UPGRADING</u>

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 inspection 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 additional relief requests for impractical requirements will be submitted in accordance with the applicable regulations.

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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 <u>RECORDS</u>

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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 <u>METHODS OF TESTING</u>

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 implementation plans and applicable surveillance testing procedures which are available for review at the plant site.

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ABBREVIATION

DEFINITION

A A	Active 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
Aux	
В	Butterfly valve
ВА	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
С	Close
Cat	Category
Cav	Cavity
СВ	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
CL	Cold Leg
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Cond	Condensate
Coord	Coordinate

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ABBREVIATION	DEFINITION
СРТ	Comprehensive Pump Test
CSD	Cold Shutdown
CSD/RF	Cold Shutdown and Refueling
CSJ	Cold Shutdown Justification
CTB	Containment Building
CTMT	Containment
Ctrl	Control
CVCS	Chemical and Volume Control System
	Chemical and Volanie Control System
D	Diaphragm valve
DG	Diesel Generator
Demin	Demineralized
Disch	Discharge
Disp	Dispersant
Dm	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
GA	Gate valve
Gen	Generator
GFFD	Gross Failed Fuel Detector
GL	Globe valve
H ₂	Hydrogen
HDR	Header

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ABBREVIATION	DEFINITION
HHSI	High Head Safety Injection
HL	Hot Leg
HV	Hydraulic Valve
HVAC	Heating Ventilation and Air Conditioning
HX	Heat exchanger
117	Theat excitatinger
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
М	Manual
Max	Maximum
MDAFW	Motor Driven Auxiliary Feedwater
MFIV	Main Feedwater Isolation Valve
Min	Minimum
МО	Motor Operated
MOV	Motor Operated Valve
Mot	Motor
MS	Main Steam
MSIV	Main Steam Isolation Valve
N_2	Nitrogen
NA	Not Applicable
NP	Normal Position
NSCW	Nuclear Service Cooling Water
0	Open
O/C	Open and Close
Obrd	Outboard
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	ABBREVIATION	DEFINITION
	ОМ	O&M - Operation and Maintenance
	ORC	Outside Reactor Containment
	Р	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
	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

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ABBREVIATION	DEFINITION
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
Т	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



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3.0 INSERVICE TESTING OF PUMPS

3.1 <u>GENERAL</u>

The IST Program was developed to comply with the requirements of 10 CFR 50.55a(f), dated October 1, 2004. 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 4th Interval IST is the ASME OM Code - 2001 Edition with Addenda trough OMb-2003. The supplemental guidance of NRC NUREG-1482, Rev. 1, 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 can not 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. <u>SCOPE</u>

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

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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 where as 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 <u>PUMP TEST NOTES</u>

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- 1. 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.
- 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.

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

TPNS	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameters</u>	Test <u>Frequency</u>	<u> RR/Remarks</u>
Q1E21P005A	Boric Acid Transfer (BAT)	D175039-3	3	P _d	N/A	N/A
Q1E21P005B	Group A	G-6; H-6		Q	Q	RR-P-2
				V	Q	N/A
				Ν	NA	N/A
				ΔΡ	Q	N/A
Q1N23P001A Q1N23P001B	Motor Driven AFW Pump	D175007 B-5; E-5	3	P _d	N/A	N/A
	Auxiliary Feedwater System (AFW)			Q	Q	RR-P-3
	Group A			V	Q	N/A
				Ν	N/A	N/A
				ΔΡ	Q	N/A
Q1N23P002	Turbine Driven AFW Pump Auxiliary Feedwater System	D175007	3	P _d	N/A	N/A
	(AFW)	H-5		Q	Q	N/A
	Group B			v	N/A	N/A
				Ν	Q	N/A
				ΔΡ	Q	N/A

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<u>TPNS</u>	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u> RR/Remarks</u>
Q1P16P001A Q1P16P001B	Service Water Pump	D170119-1	3	$\mathbf{P}_{\mathbf{d}}$	N/A	N/A
Q1P16P001C Q1P16P001D	Group A	H-3; H-5; H-7; H-9; H-11		Q	Q	RR-P-1
QIP16P001E		M -11		V	Q	RR-P-1
				Ν	N/A	N/A
				ΔΡ	Q	RR-P-1
Q1P17P001A Q1P17P001B		D175002-1	3	P _d	N/A	N/A
Q1P17P001C		C-2; E-2; G-2		Q	Q	N/A
				V	Q	N/A
				Ν	N/A	N/A
				ΔP	Q	N/A

<u>TPNS</u>	Description/Group	P&ID/ Coord	Code <u>Class</u>	Test <u>Parameter</u>	Test Frequency	<u>RR/Remarks</u>
QSY52P501A QSY52P501B	Diesel Generator Fuel Oil Transfer	D170060	3	P _d	N/A	N/A
QSY52P503A QSY52P503B	(Augmented)	G-3; G-2; G-5; G-4;		Q	18M	Notes 1, 2
QSY52P504A QSY52P504B	Group B	0-3, 0-4;		v	18M	Notes 1, 2
Q1Y52P502A Q1Y52P502A Q1Y52P502B		G-12; G-11; G-10; G-9		N	N/A	N/A
Q1152F502B		0-10, 0-9		ΔΡ	18 M	Notes 1, 2

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FNP-1 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

<u>TPNS</u>	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameters</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
QIE11P001A	Residual Heat Removal	D175041	2	P _d	N/A	N/A
Q1E11P001B	(RHR)	G-7; E-7		Q	Biennially	N/A
	Group A			V	Biennially	N/A
				Ν	N/A	N/A
				ΔΡ	Biennially	N/A
Q1E13P001A Q1E13P001B	Containment Spray (CS)	D175038-3	2	P _d	N/A	N/A
	Group B	B-8; G-8		Q	Biennially	N/A
				V	Biennially	N/A
				Ν	N/A	Ń/A
				ΔΡ	Biennially	N/A
Q1E21P002A	Charging Pump (HHSI)	D175039-6	2	P _d	N/A	N/A
Q1E21P002B Q1E21P002C	Group A	F-5; G-5; H-5;		Q	Biennially	N/A
				V	Biennially	N/A
				N	N/A	N/A
			_	ΔΡ	Biennially	N/A

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FNP-1 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
Q1E21P005A	Boric Acid Transfer Pump	D175039-3	3	Pd	N/A	N/A
Q1E21P005B	Group A	G-6; H-6		Q	Refueling	N/A
				v	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q1N23P001A Q1N23P001B	Motor Driven AFW Pump	D175007 B-5; E-5; H-5	3	P _d	N/A	N/A
	Group A			Q	Refueling	N/A
				v	Refueling	N/A
				Ν	N/A	N/A
				ΔP	Refueling	N/A
Q1N23P002	Turbine Driven AFW Pump	D175007	3	P _d	N/A	N/A
	Group B	H-5		Q	Biennially	N/A
				V	Biennially	N/A
				N	Biennially	N/A
				ΔP	Biennially	N/A

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FNP-1 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

<u>TPNS</u>	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
Q1P16P001B	Service Water Pump	D170119-1 H-3; H-5;	3	P _d	N/A	N/A
	Group A	H-7; H-9; H-11		Q	Refueling	N/A
		n-11		V	Refueling	N/A
				N	N/A	N/A
				ΔP	Refueling	N/A
Q1P17P001A	3 C-2; E-2;	D175002-1	3	P _d	N/A	N/A
Q1P17P001B Q1P17P001C				Q	Biennially	N/A
				V	Biennially	N/A
				Ν	N/A	N/A
				ΔP	Biennially	N/A
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<u>TPNS</u>	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameters</u>	Test Frequency	<u> RR/Remarks</u>
Q2E11P001A Q2E11P001B	Residual Heat Removal (RHR)	D205041 G-7; E-7	2	P _d	N/A	N/A
Q2ETIF001B		0-7, E-7		Q	Q	N/A
	Group A			v	Q	N/A
				Ν	N/A	N/A
				ΔP	Q	N/A
Q2E13P001A Q2E13P001B	Containment Spray (CS) Group B	D205038-3	2	P _d	N/A	N/A
		B-8; G-8		Q	Q	N/A
				V	N/A	N/A
				Ν	N/A	NA
				ΔΡ	Q	N/A
Q2E21P002A	Charging/High Head	D205039-6	2	P _d	N/A	N/A
Q2E21P002B Q2E21P002C	Safety Injection (HHSI)	F-5; G-5; H-5		Q	Q	N/A
	Group A			V	Q	N/A
				Ν	N/A	N/A
				ΔΡ	Q	N/A

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TPNS	Description/Group	P&ID/ Coord	Code <u>Class</u>	Test <u>Parameters</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
Q2E21P005A Q2E21P005B	Boric Acid Transfer (BAT)	D205039-3	3	P _d	N/A	N/A
Q2E2IF003B	Group A	G-6; H-6		Q	Q	RR-P-2
				v	Q	N/A
				Ν	NA	N/A
				ΔΡ	Q	N/A
Q2N23P001A Q2N23P001B	Motor Driven AFW Pump Auxiliary Feedwater System	D205007 B-5; E-5	3	P _d	N/A	N/A
	(AFW)			Q	Q	RR-P-3
	Group A			V	Q	N/A
				Ν	N/A	N/A
				ΔΡ	Q	N/A
Q2N23P002	Turbine Driven AFW Pump Auxiliary Feedwater System	D205007 H-5	3	P _d	N/A	N/A
	(AFW)	11-5		Q	Q	N/A
	Group B			v	N/A	N/A
				N	Q	N/A
				ΔΡ	Q	N/A

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TPNS	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
Q2P16P001A	Service Water Pump	D200013-2	3	P _d	N/A	N/A
Q2P16P001B Q2P16P001C	Group A	H-3; H-5; H-7; H-9;		Q	Q	RR-P-1
Q2P16P001D Q2P16P001E		H -11		v	Q	RR-P-1
				N	N/A	N/A
				ΔΡ	Q	RR-P-1
Q2P17P001A Q2P17P001B Q2P17P001C	Component Cooling Water	D205002-1 C-2; E-2; G-2	3	P _d	N/A	N/A
	Group A			Q	Q	N/A
				v	Q	N/A
				Ν	N/A	N/A
				ΔΡ	Q	N/A
Q2Y52P505A Q2Y52P503B	Diesel Generator Fuel Oil Transfer	D170060	3	P _d	N/A	N/A
Q2132F303B	(Augmented)	G-3; G-2; G-5; G-4;		Q	18 months	Note 1
	Group B	G-12; G-11; G-10; G-9		v	18 months	Note 1
				Ν	N/A	N/A
				ΔΡ	18 months	Note 1

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FNP-2 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

<u>TPNS</u>	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameters</u>	Test Frequency	<u>RR/Remarks</u>
Q2E11P001A Q2E11P001B	Residual Heat Removal (RHR)	D205041 G-7; E-7	2	P _d	N/A	N/A
Q2EIIFWIB		U -7, E-7		Q	Biennially	N/A
	Group A			V	Biennially	N/A
				N	N/A	N/A
				ΔΡ	Biennially	N/A
Q2E13P001A Q2E13P001B	Containment Spray (CS) Group B	D205038-3	2	Pd	N/A	N/A
		B-8; G-8		Q	Biennially	N/A
				V	Biennially	N/A
				N	N/A	N/A
				ΔΡ	Biennially	N/A
Q2E21P002A	Charging Pump (HHSI)	D205039-6	2	P _d	N/A	N/A
Q2E21P002B Q2E21P002C	Group A	F-5; G-5; H-5;		Q	Biennially	N/A
				V	Biennially	N/A
				Ν	N/A	N/A
				ΔΡ	Biennially	N/A

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FNP-2 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u> RR/Remarks</u>
Q2E21P005A Q2E21P005B	Boric Acid Transfer Pump	D205039-3 G-6; H-6	3	P _d	N/A	N/A
	Group A			Q	Refueling	N/A
				v	Refueling	N/A
				Ν	N/A	N/A
				ΔΡ	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	N/A
				v	Refueling	N/A
				N	N/A	N/A
				ΔΡ	Refueling	N/A
Q2N23P002	Turbine Driven AFW Pump	D205007	07 3	P _d	N/A	N/A
	Group B	н-э		Q	Biennially	N/A
				v	Biennially	N/A
				Ν	Biennially	N/A
				ΔΡ	Biennially	N/A

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FNP-2 PUMP TESTING TABLES Biennial Comprehensive Pump Tests

TPNS	Description/Group	P&ID/ <u>Coord</u>	Code <u>Class</u>	Test <u>Parameter</u>	Test <u>Frequency</u>	<u>RR/Remarks</u>
Q2P16P001A Q2P16P001B	Service Water Pump	D200013-2	3	$\mathbf{P}_{\mathbf{d}}$	N/A	N/A
Q2P16P001C Q2P16P001D Q2P16P001E	Group A	H-3; H-5; H-7; H-9; H-11		Q	Refueling	N/A
				V	Refueling	N/A
				Ν	N/A	N/A
				ΔΡ	Refueling	N/A
Q2P17P001A Q2P17P001B Q2P17P001C	Component Cooling Water	D205002-1 C-2; E-2; G-2	3	P _d	N/A	N/A
	Group A			Q	Biennially	N/A
				V	Biennially	N/A
				N	N/A	N/A
				ΔΡ	Biennially	N/A

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7.0 PUMP RELIEF REQUEST LOG

Relief Request	Component	Status
RR-P-1	Q1(2)P16P001A, B, C, D, E	Submitted to NRC for review.
RR-P-2	Q1(2)E21P005A, B	Submitted to NRC for review.
RR-P-3	Q1(2)N23P001A, B	Submitted to NRC for review.

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SOUTHERN NUCLEAR OPERATING COMPANY IST PROGRAM – RELIEF REQUEST PROPOSED ALTERNATIVE IN ACCORDANCE WITH 10 CFR 50.55a(a)(3)(ii) RR-P-1

PLANT/UNIT: Joseph M. Farley Nuclear Plant / Units 1 and 2.

- **INTERVAL:** 4th Interval beginning December 1, 2007 and ending November 30, 2017.
- **COMPONENTS** Q1P16P001A, B, C, D, & E (Vertical Line Shaft Service Water **AFFECTED**: Pumps) Group A

Q2P16P001A, B, C, D, & E (Vertical Line Shaft Service Water Pumps) Group A

CODE EDITION ASME OM Code-2001 Edition with Addenda through OMb-2003 **AND ADDENDA:**

REQUIREMENTS: ISTB-5221 requires a Group A pump test to be conducted with the pump operating at a specified reference point. The test parameters shown in Table ISTB-3000-1 shall be determined and recorded as required by this paragraph.

REASON FOR REQUEST: This alternative is a re-submittal of NRC approved 3rd Interval relief request RR-P-2 that was based on the ASME OM Code-1990 Edition, no addenda. This 4th Interval request for relief, RR-P-1, is based on the ASME OM Code-2001 Edition with Addenda through OMb-2003. There have been no substantive changes to this alternative, to the OM Code requirements (with the exception of Group A, Group B and Comprehensive tests) or to the basis for use, which would alter the previous NRC Safety Evaluation conclusions. (See References for SER date and TAC numbers associated with 3rd Interval relief request RR-P-2.)

> The Service Water System is designed so that during normal operation there are two pumps in each of the two trains operating, with a standby pump available to swing to either train. Each pump has pressure gages; however flow instrumentation is installed only to measure the flow from each of the two trains.

> Since flow instrumentation was not provided for each pump, the only viable means of individually testing these pumps is by removal of one pump from service and measuring flow through the train with only one pump aligned. However, a flow of 32,186 gpm, which requires four pumps (or both trains operable), is required for normal operation per the FSAR. A condition where only one pump is aligned at a time to a train would result in

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degraded cooling water flow to essential or safety related equipment and is therefore an unacceptable method of operation.

Furthermore, removal of one pump from the service water train could lead to an isolation of the turbine building service water supply lines due to low flow and potentially cause a plant trip.

Since hydraulic performance of a degrading pump may be masked by the other pump when service water pumps are tested in pairs, FNP has developed analytical methods which can be used to determine individual pump flow rate. These analytical methods involve solving three equations involving dual pump flows for three individual pump flow rates. These analytical methods have proven reliable in determining individual pump operational readiness and monitoring for degradation.

PROPOSED ALTERNATIVE

Quarterly combined flow, differential pressure and vibration will be measured and compared to reference values. This request is AND BASIS: not applicable to Comprehensive or Preservice Testing.

> Whenever combined flow measurements are not in the acceptable range, individual pump evaluations, which consist of performing three dual pump combination tests at a reference differential pressure and solving analytical equations for individual flows, will be performed. If three pumps are not immediately available to support this testing, then tests will be performed as soon as three pumps are available. For the case in which three pumps are not immediately available to support testing, and flow is in the ALERT Range, dual pump testing of the two pumps in the ALERT Range will be performed at double the required frequency until three pumps are available. Corrective action will be taken on the individual pumps as a result of the evaluation in accordance with ISTB-6200.

> Individual service water pump testing will be performed during the Comprehensive pump test at least once every two years. Individual pump testing will consist of monitoring pump flow, differential pressure, and vibration and comparison of test data to reference values for each parameter.

> The above proposed alternative provides reasonable assurance that the mechanical condition of the pumps demonstrated during the quarterly Group A tests support operational readiness. Based on the determination that compliance with the Code requirements

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results in a hardship without a compensating increase in the level of quality and safety, this proposed alternative should be granted pursuant to 10 CFR 50.55a(a)(3)(ii).

- **DURATION:** 4th IST Interval, December 1, 2007 through November 30, 2017.
- **PRECEDENTS:** This Relief Request was approved as RR-P-2 for the Third 10 Year IST Interval.
- **REFERENCES:** NRC Safety Evaluation dated October 29, 1998 TAC Nos. M99186 and M99187.

STATUS: Submitted for NRC review.

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PLANT/UNIT: Joseph M. Farley Nuclear Plant / Units 1 and 2.

- **INTERVAL:** 4th Interval beginning December 1, 2007 and ending November 30, 2017.
- **COMPONENTS** Q1E21P005A, B (Horizontal Centrifugal Boric Acid Transfer **AFFECTED:** Pumps) Group A

Q2E21P005A, B (Horizontal Centrifugal Boric Acid Transfer Pumps) Group A

- **CODE EDITION** ASME OM Code-2001 Edition with Addenda through OMb-2003 **AND ADDENDA:**
- **REQUIREMENTS:** ISTB-5121 requires a Group A pump test to be conducted with the pump operating at a specified reference point. The test parameters shown in Table ISTB-3000-1 shall be determined and recorded as required by this paragraph. Table ISTB-3000-1 identifies flow rate as a required test parameter.
 - **REASON FOR REQUEST:** This alternative is a re-submittal of NRC approved 3rd Interval relief request RR-P-4 that was based on the ASME OM Code-1990 Edition, no addenda. This 4th Interval request for relief, RR-P-2, is based on the ASME OM Code-2001 Edition with Addenda through OMb-2003. There have been no substantive changes to this alternative, to the OM Code requirements (with the exception of Group A, Group B and Comprehensive tests) or to the basis for use, which would alter the previous NRC Safety Evaluation conclusions. (See References for SER date and TAC numbers associated with 3rd Interval relief request RR-P-4.)

Quarterly Group A pump testing is performed using the orificed pump discharge test line which runs back to the boric acid storage tank. This line does not have any installed flow measuring instrumentation. To utilize the system flow meter would require a test flow path which would transfer highly concentrated boric acid from the boric acid tank into the CVCS and into the RCS through the operating CVCS charging pump. The addition of concentrated boric acid to the RCS during normal operations would adversely affect the boric acid concentration in the RCS and could cause a forced plant shutdown.

PROPOSEDPump differential pressure and vibration readings will be**ALTERNATIVE**measured on a quarterly basis during the Group A pump test.**AND BASIS:**This request is not applicable to Comprehensive or Preservice Testing.

Since it is not feasible to measure the flow rate during the quarterly Group A test due to lack of flow instrumentation in the recirculation line, the above proposed alternative provides reasonable assurance that the mechanical condition of the pumps demonstrated during the quarterly

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Group A tests support operational readiness. Based on the determination that compliance with the Code requirements results in a hardship without a compensating increase in the level of quality and safety, this proposed alternative should be granted pursuant to 10 CFR 50.55a(a)(3)(ii).

- **DURATION:** 4th IST Interval, December 1, 2007 through November 30, 2017.
- **PRECEDENTS:** This Relief Request was approved as RR-P-4 for the Third 10 Year IST Interval.
- **REFERENCES:** NRC Safety Evaluation dated October 29, 1998 TAC Nos. M99186 and M99187.
 - STATUS: Submitted for NRC review.

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- PLANT/UNIT: Joseph M. Farley Nuclear Plant / Units 1 and 2.
- **INTERVAL:** 4th Interval beginning December 1, 2007 and ending November 30, 2017.
- COMPONENTSQ1N23P001A, B (Horizontal Centrifugal Motor Driven AuxiliaryAFFECTED:Feedwater (AFW) Pumps) Group A

Q2N23P001A, B (Horizontal Centrifugal Motor Driven Auxiliary Feedwater (AFW) Pumps) Group A

- **CODE EDITION** ASME OM Code-2001 Edition with Addenda through OMb-2003 **AND ADDENDA:**
- **REQUIREMENTS:** ISTB-5121 requires a quarterly Group A pump IST with the pump operating at a specified reference point. The test parameters shown in Table ISTB-3000-1 shall be determined and recorded. Table ISTB-3000-1 identifies flow rate as a required test parameter. (This relief request is not applicable to biennial Comprehensive or Preservice pump IST.)
- **REASON FOR**
REQUEST:This alternative is similar to NRC approved 3rd Interval Relief
Request RR-P-5 that was based on the ASME OM Code-1990
Edition, no addenda. This 4th Interval request for relief is based
on the ASME OM Code-2001 Edition with Addenda through
OMb-2003.

ISTB-5121 requires a quarterly Group A pump IST by varying system resistance until either the differential pressure or flow rate equals the corresponding reference value, or by use of a fixed resistance flow path. The only system valve(s) with flow throttling capability is located in the injection line to the steam generators. Use of the injection line(s) is not practical during normal operation because the injection of cold water into the hot steam generators results in a significant thermal shock of the injection nozzles and could result in nozzle cracking.

Use of the 2" minimum flow fixed resistance line limits the flow rate of the 350 gpm AFW pumps to approximately 50 gpm. IST at this significantly low flow rate would provide only minimal data for determining pump operational readiness or monitoring degradation.

Each pump is also provided with a 4" return line to the

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Condensate Storage Tank (CST). However, the lines downstream of the first isolation valve are ANSI B31.10, Class III Non-Nuclear and the piping and supports was not designed and installed to be used for full-flow testing of the AFW pumps. FNP attempted to utilize these 4" return lines for AFW pump IST and experienced significant piping vibration that was considered detrimental to long term component integrity. Redesign and modification of these 4" return lines would result in a significant hardship with minimal increase in the level of quality and safety since each motor driven AFW pump is tested every refueling outage at the design flow rate during the Comprehensive Pump Test (CPT).

PROPOSED
ALTERNATIVEThe quarterly AFW pump Group A IST will be performed
utilizing the 2" fixed resistance minimum flow line (i.e.,
approximately 50 gpm) with measurement of differential pressure
and vibration only.

Quarterly IST on the 2" fixed resistance minimum flow line provides some assurance of pump operational readiness and will also detect gross degradation. This quarterly IST combined with a CPT each refueling outage, at design flow rate, provides adequate test data to evaluate operational readiness and monitor degradation. Based on SNC's conclusion that compliance with the Code requirements results in a hardship without a compensating increase in the level of quality and safety, this proposed alternative should be granted pursuant to 10 CFR 50.55a(a)(3)(ii).

- **DURATION:** 4th IST Interval, December 1, 2007 through November 30, 2017.
- **PRECEDENTS:** A similar relief request was approved as RR-P-5 for the Third 10 Year IST Interval.
- **REFERENCES:** NRC Safety Evaluation dated October 29, 1998 TAC Nos. M99186 and M99187.

STATUS: Submitted for NRC review.

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8.0 INSERVICE TESTING OF VALVES

8.1. <u>GENERAL</u>

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 4th Interval valve IST is the ASME OM Code-2001 Edition with Addenda through OMb-2003 (hereafter referred to as the OM Code). The supplemental guidance of NRC NUREG-1482, Revision 1, 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. <u>SCOPE</u>

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 1, as "two <u>check</u> valves in series at a low pressure/RCS interface whose failure may result in a LOCA that bypasses containment."

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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 "Frequency" column in the valve tables. Some valves function as both pressure and containment isolation valves, and are designated as PIV/CIV.

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 can not 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.
- b. An RCS/low pressure piping interface valve that also functions as a containment isolation valve (CIV) is Appendix J, type C tested using CIV acceptance criteria since this criteria is more stringent. Acceptable leakage for these valves is always less than the PIV criterion of 1892 cc/min per inch of valve size, even when the adjustment to the "function maximum pressure differential value" is performed.

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 "Frequency" column in the valve tables. 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 Intregrated Leak Rate Test procedure and CIVs that do no 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.

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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.
- All valves that require a PIV Leakage Test are designated by "LJ-A" 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. Passive Category B power operated valves that are deencrgized in their safety position during power operation will not have remote position indication.

8.6 <u>CHECK VALVES</u>

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).

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9.0 <u>VALVE NOTES</u>

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

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Unit 1

B13 - Reactor Coolant

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1B13SV2213A (HV001) REACTOR VESSE	2 EL HEA		1 1	GL	SO	A	D-175037/1 (E-7)	C	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q1B13SV2213B (HV003) REACTOR VESSE	2 EL HEA		1 1T	GL	SO	A	D-175037/1 (E-8)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q1B13SV2214A (HV002) REACTOR VESSE	2 EL HEA		1 1	GL	SO	A	D-175037/1 (E-7)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q1B13SV2214B (HV004) REACTOR VESSE	2 EL HEA		1 IT	GL	SO	A	D-175037/1 (E-8)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q1B13V0027A (MOV8000A) PRESSURIZER P	1 ORV B	B	3 VALVE	GA	MO	A	D-175037/2 (D-2)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q1B13V0027B (MOV8000B) PRESSURIZER P	1 ORV B	B	3 VALVE	GA	MO	Α	D-175037/2 (E-2)	0	O/C	Al	PIT STC STO	2Y Q Q	
Q1B13V0031A PRESSURIZER S	1 AFETY	С	6X6	SR	S	Α	D-175037/2 (D-5)	С	O/C	NA	ETSP	Т	
Q1B13V0031B PRESSURIZER S	1	С	6X6	SR	S	Α	D-175037/2 (D-4)	С	O/C	NA	ETSP	Ť	
Q1B13V0031C PRESSURIZER S	1	С	6X6	SR	S	A	D-175037/2 (D-3)	С	O/C	NA	ETSP	T	
Q1B13V0037 (HV8047) PRT N2 SUPPLY	2	A	1 PEN 64A)	D	AO	A	D-175037/2 (B-10)	0	С	С	PIT LJ-C STC	2Y LJ Q	

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Unit 1

B13 - Reactor Coolant

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1B13V0038 (V8046)	2	AC	3	CK	S	A	D-175037/2 (B-10)	С	С	NA	ETC LJ-C BDTO	RF LJ Normal Op	ROJ-V-01
RMW TO PRT ISC			LVE (PEN									· · · · ·	s
Q1B13V0039 (HV8033) PRT N2 SUPPLY (2 DEN 6	A	1	D	AO	A	D-175037/2 (B-11)	0	С	С	PIT STC LJ-C	2Y Q LJ	
Q1B13V0040	2					-	D (75007/0			~			
(HV8028) RMW TO PRT ISC		A /E (PEI	3 N 30)	D	AO	A	D-175037/2 (B-11)	С	С	С	PIT STC LJ-C	2Y Q LJ	
Q1B13V0053	1	B	3	GL	AO		D-175037/2	С	O/C	С	PIT	2Y	
(PCV445A) PRESSURIZER PO) DRV	D	5	GL	AU	A	(D-2)	C	0/0	C	STO STC	CSD/RF CSD/RF	
Q1B13V0054 (V8092)	2	AC	2	CK	S	Α	D-175037/2 (C-6)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-02 ROJ-V-02
CVCS CHARGING (PEN 59)	PUM	P RELI	EF VALV	E DISCHAI	RGE TO I	PRT					LJ-C	Ш	
Q1B13V0061 (PCV444B)	1	в	3	GL	AO	Α	D-175037/2 (E-2)	С	O/C	С	PIT STO	2Y CSD/RF	
PRESSURIZER PO	DRV	_									STC	CSD/RF	
Q1B13V0110	2	AC	3/4X1	SR	S	A	D-175037/2 (B-11)	С	O/C	NA	ETSP LJ-C	т Ц	
REACTOR MAKE	JP WA	TER S	SYSTEM (PEN 30) R	ELIEF VA	LVE							

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Unit 1

E11 - LHSI/RHR

Valve ID	сс	Cat.	Size	Туре	Act.	AP	PiD (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E11V0001A (MOV8701A) 1A RHR PUMP S	1 UCTIOI	A N FROI	12 M RCS (H	GA IL) (PEN 1	MO 6)	A	D-175041 (G-3)	С	O/C	AI	PIT STO STC LTA	CSD/RF LA	CSJ-V-02 CSJ-V-02
Q1E11V0001B (MOV8702A) 1B RHR PUMP S	1 UCTIOI	A N FROI	12 M RCS (F	GA IL) (PEN 1	MO 8)	A	D-175041 (E-3)	С	O/C	AI	LJ-C PIT STO STC LTA LJ-C		CSJ-V-02 CSJ-V-02
Q1E11V0009A (MOV8706A) CHG PUMP SUC	2 TION F	B ROM P	8 HR HX A	GA	MO	Α	D-175041 (B-8)	С	0	ĀI	PIT STO	2Y Q/CSD	CSJ-V-04
Q1E11V0009B (MOV8706B) CHG PUMP SUC	2	B	8	GA	MO	A	D-175041 (C-8)	С	0	AI	PIT STO	2Y Q/CSD	CSJ-V-04
Q1E11V0015A (V8708A) RHR PUMP SUC	2	С	3X4	SR	S	Α	D-175041 (G-4)	С	O/C	NA	ETSP	Т	
Q1E11V0015B (V8708B) RHR PUMP SUC	2	С	3X4	SR	S	A	D-175041 (E-4)	С	O/C	NA	ETSP	Т	
Q1E11V0016A (MOV8701B) 1A RHR PUMP S	1	A	12 M RCS LO	GA DOPS	МО	A	D-175041 (G-2)	Ĉ	O/C	Al	STO STC LTA PIT		CSJ-V-02 CSJ-V-02
Q1E11V0016B (MOV8702B) 1B RHR PUMP S	1 UCTIO	A	12	GA	MO	A	D-175041 (E-2)	С	O/C	Al	PIT STC LTA STO	2Y CSD/RF LA	CSJ-V-02 CSJ-V-02

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Unit 1

E11 - LHSI/RHR

PID AP (Coord)

Act.

GA

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Α

Valve ID

Q1E11V0025B

(MOV8811B)

2

Α

1B RHR PUMP SUCTION FROM CTMT SUMP (PEN 10)

14

CC Cat. Size Type NA ROJ-V-05 Q1E11V0021A AC 6 CK S D-175038/2 С O/C ETO RF 1 Α ROJ-V-05 ETC RF (E-1) LTA LA **RHR PUMP DISCHARGE TO SI(CL)** Q1E11V0021B AC СК S D-175038/2 С O/C NA ETO RF **ROJ-V-05** 1 6 Α (F-1) ETC RF **ROJ-V-05** LTA LA RHR PUMP DISCHARGE TO SI(CL) ETO **ROJ-V-05** Q1E11V0021C 1 AC 6 CK S Α D-175038/2 С O/C NA RF RF ROJ-V-05 ETC (G-1) LTA LA RHR PUMP DISCHARGE TO SI(CL) 2 B D-175038/2 AI PIT 2Y Q1E11V0023A 10 GA MO 0 O/C Α (MOV8888B) STO Q (G-3) STC Q **RHR/LHSI DISCHARGE TO RCS(CL)** PIT Q1E11V0023B 2 B 10 GA MO D-175038/2 0 O/C AI 2Y Α (MOV8888A) STO Q (F-3) Q STC RHR/LHSI DISCHARGE TO RCS(CL) Q1E11V0024A GA MO D-175038/2 Al PIT 2Y 2 В 10 0 O/C Α STO Q (MOV8887A) (F-4) STC 0 **RHR/LHSI TO RCS XCONN** 2 D-175038/2 0 Ał PIT 2Y Q1E11V0024B B 10 GA MO Α O/C STO Q (MOV8887B) (G-4) STC Q **RHR/LHSI TO RCS XCONN** D-175038/2 Q1E11V0025A 2 14 GA MO С O/C Ai PIT 2Y Α Α STO Q (MOV8811A) (J-4) Q STC 1A RHR PUMP SUCTION FROM CTMT SUMP (PEN 11) LJ-C ш

С

D-175038/2

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AL

PIT

STO

STC

LJ-C

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RR/CSJ/ROJ Remarks

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NP

SP

FP

Test

Frea

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Q

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Unit 1

E11 - LHSI/RHR

							PID						
Vaive ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E11V0026A	2	Α	14	GA	MO	A	D-175038/2	С	O/C	AI	STO	Q	
(MOV8812A)							(J-5)				STC	Q	
1A RHR PUMP S	UCTIO	N FRO	M CTMT	SUMP (PE	N 11)						LJ-C	LJ	
											PIT	2Y	
Q1E11V0026B	2	Α	14	GA	MO	Α	D-175038/2	С	O/C	AI	PIT	2Y	
(MOV8812B)							(H-5)				STC	Q	
18 RHR PUMP S	UCTIO	N FRO	M CTMT :	SUMP (PE	N 10)						LU-C	ليا	
											STO	Q	
Q1E11V0027A	2	В	14	GA	MO	Α	D-175038/2	0	O/C	Al	PIT	2Y	N
(MOV8809A)							(F-10)				STC	Q	Note-1
1A RHR PUMP S	UCTIO	N FRO	MRWST										
Q1E11V0027B	2	В	14	GA	MO	Α	D-175038/2	0	O/C	Al	PIT	2Y	
(MOV8809B)							(G-10)				STC	Q	Note-1
1B RHR PUMP S	UCTIO	N FRO	M RWST										
Q1E11V0028	2	С	14	CK	S	A	D-175038/2	С	O/C	NA	ETO	Q	······································
							(F-10)				ETC	RF	ROJ-V-06
RHR PUMP SUC	TION F	ROM R	WST				• •						
Q1E11V0032A	2	В	10	В	AO	Р	D-175041	0	0	0	PIT	2Y	
(HCV603A)							(B-7)		-				
RHR HEAT EXCH	IANGE	R DISC	HARGE	VALVES			• •						
Q1E11V0032B	2	В	10	В	AO	Ρ	D-175041	0	0	0	PIT	2Y	
(HCV603B)							(C-7)		-	-			
RHR HEAT EXCH	IANGE	R DISC	HARGE	VALVES			. ,						
Q1E11V0033A	2	В	8	В	AO	P	D-175041	0	0	0	PIT	2Y	
(HCV605A)			-			•	(C-8)	-	-	-			
RHR HEAT EXCH	ANGE	R BYP	ASS FLO	W CONTR	OL VALV	'ES	/						
Q1E11V0033B	2	В	8	В	AO	P	D-175041	0	0	0	PIT	2Y	
(HCV605B)				-		-	(D-8)	-	-	-			
RHR HEAT EXCH		R RYP	ASS FLO			'ES	··· -/						
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E11 - LHSI/RHR

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E11V0037A	2	В	2	GL	MO	A	D-175041	0	С	AI	PIT	2Y	n hi ang i kini kina kina kina kana sa ing mangang mangang mangang kina kina kina kana sa sa sa sa sa sa sa sa
(FCV602A)							(D-5)				STC	Q	
1A RHR PUMP M	INIFLO	W						·····					
Q1E11V0037B	2	B	2	GL	MO	Α	D-175041	0	С	AI	STC	Q	
(FCV602B)							(D-5)				PIT	2Y	
1B RHR PUMP M													
Q1E11V0038A	2	С	10	CK	S	Α	D-175041	C	O/C	NA	ETO	Q	
							(B-5)				ETC	Q	
1A RHR DISCHAI													
Q1E11V0038B	2	С	10	CK	S	Α	D-175041	С	O/C	NA	ETO	Q	
							(C-5)				ETC	Q	
1B RHR DISCHAI			·····										
Q1E11V0039A	2	AC	.75X1	SR	S	Α	D-175038/2	С	O/C	NA	ETSP	T	
		r n r) (50)			(G-3)				LJ-C	ليا	
1B RHR HX DISC			<u>`</u>				D (75000)0				ETOD		
Q1E11V0039B	2	AC	.75X1	SR	S	Α	D-175038/2	Ċ	O/C	NA	ETSP LJ-C	т Ы	
1A RHR HX DISC		כסכוו		50)			(F-3)				W ⁰	LU	
Q1E11V0040	2	AC	.75X1	SR	S		D-175038/2	C	O/C	NA	ETSP	T	
Q1E1140040	2	AC	.7571	on	3	Α	(F-3)	C	0/0	INA.	LJ-C	ມ່	
RHR HX DISCHA	ROF R		(PEN 59)				(1-5)					6	
Q1E11V0042A	2	AC	10	СК	S	Α	D-175038/2	С	O/C	NA	ETO	CSD/RF	ROJ-V-03
CELET TOUGEN	۲		10		0	~	(G-2)	U	0,0		ETC	RF	ROJ-V-03
RHR PUMP DISC	TO SL	S INJE	CTION CI	L			()				LTA	LÄ	·· • ••
Q1E11V0042B	2	AC	10	- CK	S	A	D-175038/2	C	O/C	NA	ETO	CSD/RF	ROJ-V-03
	-			0	~		(E-2)	•	0,0		ETC	2Y	ROJ-V-03
RHR PUMP DISC	TO SI	S INJE	CTION CI	L			. ,				LTA	LA	
Q1E11V0044	2	В	10	GA	MO	A	D-175038/2	C	O/C	Al	PIT	2Y	
(MOV8889)	-	-				••	(F-3)	-			STO		= CSJ-V-03
RHR HX DISCHA	<u>оос т</u>		VERY								STC	O/CSD/RE	= CSJ-V-03

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						E11 - Ll	HSI/RHR	•				
00	Cat	Size	Type	Act	AD	PID (Coord)	ND			Test	Eroa	

Valve ID	сс	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E11V0051A (V8998A)	1	С	6	СК	S	A	D-175038/1 (C-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04
RCS LOOP LHSI CI	-												
Q1E11V0051B (V8998B) RCS LOOP LHSI CI	1	С	6	СК	S	A	D-175038/1 (D-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04
Q1E11V0051C (V8998C) RCS LOOP LHSI CI	1	С	6	СК	S	A	D-175038/1 (D-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04

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Joseph M. Far	ley Nuclear Plan	t IST Program
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E12 - Reactor Cavity Cooling

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Valve ID	cc	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E12V0001A (HV3999A) 1A RX CAVITY C	Aug OOLIN(B G SYST	36 -EM	В	AO	A	D-175010/2 (B-10)	0	С	С	PIT STC	2Y CSD/RF	
Q1E12V0001B (HV3999B) 1B RX CAVITY C	Aug OOLIN(B G SYST	36 'EM	В	AO	A	D-175010/2 (B-10)	0	С	С	PIT STC	2Y CSD/RF	

Joseph M	. Farley	Nuclear	Plant	IST	Program
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Unit 1

E13 - Containment Spray

							PID						
Valve ID	cc	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E13V0002A	2	С	8	СК	S	Α	D-175038/3	С	O/C	NA	ETPO	ARFD	
(V8822A)							(C-2)				ETO	RF	ROJ-V-07
1A CTMT SPRAY	' PUMP	DISCH	HARGE								ETC	RF	ROJ-V-07
Q1E13V0002B	2	С	8	CK	S	Α	D-175038/3	С	O/C	NA	ETPO	ARFD	
(V8822B)							(F-2)				ETO	RF	ROJ-V-07
1B CTMT SPRAY	' PUMP	DISCH	HARGE								ETC	RF	ROJ-V-07
Q1E13V0003A	2	A	12	GA	MO	A	D-175038/3	С	O/C	AI	PIT	2Y	
(MOV8826A)							(H-3)				STO	Q	
CTMT SPRAY PL	JMP 1A	SUCT	ION FRO	M CTMT S		N 94)					STC	Q	
••••••	_					,					<u> </u>	<u> </u>	
Q1E13V0003B	2	Α	12	GA	MO	Α	D-175038/3	С	O/C	Al	PIT	2Y	
(MOV8826B)							(H-3)				STO	Q	
CTMT SPRAY PL	JMP 18	SUCT	ION FRO	M CTMT S	SUMP (PE	EN 93)					STC	Q	
											<u>LJ-C</u>	<u>LJ</u>	
Q1E13V0004A	2	Α	12	GA	MO	Α	D-175038/3	С	O/C	AI	PIT	2Y	
(MOV8827A)							(H-4)				STC	Q	
CTMT SPRAY PL	JMP 1A	SUCT	ION FRO	M CTMT S	SUMP (PE	EN 94)					LU-C	Ш	
					`					····	STO	Q	
Q1E13V0004B	2	Α	12	GA	MO	Α	D-175038/3	С	O/C	AI	PIT	2Y	
(MOV8827B)							(H-4)				STO	Q	
CTMT SPRAY PL	JMP 1E	SUCT	ION FRC	M CTMT S	SUMP (PE	EN 93)					STC	Q	
						_,				····	<u> </u>	Ш	
Q1E13V0005A	2	В	8	GA	MO	Α	D-175038/3	С	O/C	Al	PIT	2Y	
(MOV8820A)							(B-5)				STO	Q	
CTMT SPRAY PL	JMP 1A	DISCH	HARGE								STC	Q	
Q1E13V0005B	2	В	8	GA	MO	A	D-175038/3	С	O/C	AI	PIT	2Y	
(MOV8820B)							(G-5)				STO	Q	
CTMT SPRAY PL	JMP 1E	DISCI	HARGE				· · ·				STC	Q	
Q1E13V0012A	2	B	10	GA	MO	A	D-175038/3	0	O/C	AI	STC	Q	Note-1
(MOV8817A)		2	10	.			(E-10)	-	0,0		PIT	2Y	·····
CTMT SPRAY PL				MRWST			(=,				-		
UNAL OF NATED	21VIT 17	1000	ONTING										

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Joseph M.	Farlev	Nuclear	Plant	IST Program	
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Unit 1

E13 - Containment Spray

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
1E13V0012B IOV8817B) IMT SPRAY PL	2 JMP 1B	B	10 ON FRO	GA M RWST	MO	A	D-175038/3 (G-10)	0	O/C	AI	PIT STC	2Y Q	Note-1
21E13V0014 V8816) CTMT SPRAY PL	2	C	12	СК	S	A	D-175038/3 (E-10)	С	O/C	N/A	ETO ETC	RF RF	ROJ-V-08 ROJ-V-08

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Joseph M. Farley Nuclear Plant IST Program

Unit 1

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E14 - Containment Isolation

CTMT AIR SAMPLE (PEN 55) LJ-C LJ Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) STC Q CTMT AIR SAMPLE TO R11/12 (PEN 54) LJ-C LJ-C	RR/CSJ/ROJ Remarks	Freq	Test	FP	SP	NP	PID (Coord)	AP	Act.	Туре	Size	Cat.	сс	Valve ID
Q1E14HV3658 2 A 1 GL AO A D-175010/2 O C C PIT 2Y (B-4) (B-4) (B-4) STC Q Q1E14V0001 2 AC 1 CK S A D-175010/2 C O/C NA ETO Q Q1E14V0001 2 AC 1 CK S A D-175010/2 C O/C NA ETO Q CTMT AIR SAMPLE (PEN 55) C I CK S A D-175010/2 C O/C NA ETO Q Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) (B-2) STC Q C AI PIT 2Y Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) U-C U-C U-C U-C <		Q	STC	С	С	0		A	AO	GL	1	A	2	Q1E14HV3657
(B-4) LJ-C LJ CTMT AIR SAMPLE TO R11/R12 (PEN 54) Q1E14V0001 2 AC 1 CK S A D-175010/2 C O/C NA ETO Q CTMT AIR SAMPLE (PEN 55) CTMT AIR SAMPLE (PEN 55) (MOV3660) C AI PIT 2Y Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) UJ-C UJ-C UJ-C UJ-C UJ-C UJ-C UJ-C UJ-C Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) UJ-C		L.)	LJ-C							N 55)	/R12 (PE	M R11	LE FRC	CTMT AIR SAMPI
Q1E14V0001 2 AC 1 CK S A D-175010/2 (A-2) C O/C NA ETO Q CTMT AIR SAMPLE (PEN 55) C CTMT AIR SAMPLE (PEN 55) U-C U U-C U Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) (B-2) U-C U U-C U Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) U-C U-C U-C U U-C U		LJ	LJ-C	С	С	0		A	AO		1		-	
(A-2) ETC RF CTMT AIR SAMPLE (PEN 55) Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) (B-2) STC Q CTMT AIR SAMPLE TO R11/12 (PEN 54) Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) CTMT		·····									2 (PEN 5			CTMT AIR SAMPL
Q1E14V0002 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3660) (B-2) (B-2) STC Q LU-C	ROJ-V-09	RF	ETC	NA	O/C	С	#· · · · = · = · = ·	Α	S	CK	1	AC	2	Q1E14V0001
(MOV3660) (B-2) STC Q CTMT AIR SAMPLE TO R11/12 (PEN 54) LJ-C LJ Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) LJ-C LJ LJ-C LJ D		IJ	LJ-C									N 55)	E (PE	CTMT AIR SAMPI
Q1E14V0003 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318A) (B-2) (B-2) (D-C (D-C (D-C) (D-C)			STC	AI	С	0		A	MO	GL	1	A	2	
(MOV3318A) (B-2) LJ-C LJ		ы	LJ-C)	(PEN 54)	R11/12	E TO	CTMT AIR SAMPI
CTMT DIFFERENTIAL PRESSURE INSTRUMENT ISOLATION STC Q			LJ-C	AI	С	0		Α	MO	GL	1	Α	2	
(PEN 70)		Q	STC					ON	ISOLATIO	RUMENT	IRE INST	RESSU	TIAL P	
Q1E14V0004 2 A 1 GL MO A D-175010/2 O C AI PIT 2Y (MOV3318B) (C-2) STC Q			STC	AI	С	0		Α	MO	GL	1	Α	2	Q1E14V0004
CTMT DIFFÉRENTIAL PRESSURE INSTRUMENT ISOLATION LJ-C LJ (PEN 70)		ليا	LJ-C				•	ON	ISOLATIO	RUMENT	IRE INST	RESSU	TIAL P	CTMT DIFFEREN

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Unit 1 E15 - Penetration Room Filtration

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E15CKDMP002	-	С	14	СК	S	A	D-175022 (C-2)	С	O/C	С	ETO ETC	Q Q	
PRF RECIRC FAN					·······				·				
Q1E15CKDMP002 B	Aug	С	14	CK	S	Α	D-175022 (C-8)	С	O/C	С	ETO ETC	Q	
PRF RECIRC FAN	1B CH	HECK [DAMPER										
Q1E15CKDMP003 A	~	С	12	CK	S	Α	D-175022 (B-2)	С	O/C	С	ETC ETO	Q	
PRF EXHAUST FA											···		
Q1E15CKDMP003 B PRF EXHAUST FA	-		12	CK	S	Α	D-175022 (D-8)	С	O/C	С	ETO ETC	Q Q	
	~~~~	_					D +75000	~		A 1		~	
Q1E15V0001A (MOV3361B) 1B PRF RECIRC F	Aug AN D/		18 1	В	MO	Α	D-175022 (D-4)	С	0	AI	STO PIT	Q 2Y	
Q1E15V0001B (MOV3361A) 1A PRF RECIRC F	Aug		18	B	MO	A	D-175022 (D-5)	С	0	Al	PIT STO	2Y Q	
Q1E15V0001C (MOV3362B) 1B PRF SUCTION	Aug	В	18	В	MO	A	D-175022 (D-5)	С	0	Al	PIT STO	2Y Q	
Q1E15V0001D (MOV3362A) 1A PRF SUCTION	Aug	В	18	В	MO	A	D-175022 (D-6)	С	0	AI	PIT STO	2Y Q	
Q1E15V0002A (HV3356A)	Aug	В	14	В	AO	A	D-175022 (C-2)	С	0	0	PIT STO	2Y Q	
1A PRF RECIRC F		~~~.		·									
Q1E15V0002B (HV3356B) 1B PRF RECIRC F	Aug AN E)		14 T DAMPE	B	AO	A	D-175022 (B-8)	С	0	0	PIT STO	2Y Q	

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					Josepi	h M. I	Farley Nucle	ear Plai	nt IST	Progra	am		
					-	E15 -	Unit Penetration		Filtrati	ion			Page 13 of 72
Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E15V0003A (HV3357A)	Aug	B	12	В	AO	A	D-175022 (A-2)	С	0	0	PIT STO	2Y Q	

 1A PRF EXHAUST FAN DISCH DAMPER
 (A-2)
 310
 Q

 Q1E15V0003B
 Aug
 B
 12
 B
 AO
 A
 D-175022
 C
 O
 PIT
 2Y

 (HV3357B)
 (D-8)
 STO
 Q

 1B PRF EXHAUST FAN DISCH DAMPER
 STO
 Q

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#### Unit 1 E21 - HHSI/CVCS

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							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E21V0016A (MOV8803A) HHSI TO RCS (C	2	В	3	GĀ	МО	A	D-175038/1 (G-7)	С	O/C	Al	PIT STC STO	2Y RF RF	ROJ-V-14 ROJ-V-14
Q1E21V0016B (MOV8803B) HHSI TO RCS (C	2	В	3	GA	MO	A	D-175038/1 (G-7)	С	O/C	AI	PIT STO STC	2Y RF RF	ROJ-V-14 ROJ-V-14
Q1E21V0026	2	C	8	СК	S	A	D-175038/1 (E-12)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-10 ROJ-V-10
Q1E21V0032A	1	AC	12 TO RCS	CK (CL)	S	A	D-175038/2 (D-2)	C	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-19 ROJ-V-19
Q1E21V0032B	1 TANK	AC DISCH	12 TO RCS	СК (CL)	S	Α	D-175038/2 (D-2)	С	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-19 ROJ-V-19
Q1E21V0032C	1	AC	12	СК	S	A	D-175038/2 (E-2)	С	O/C	NA	ETO LTA ETC	RF LA RF	ROJ-V-19 ROJ-V-19
Q1E21V0037A ACCUMULATOR	1	AC	12	СК	S	Α	D-175038/2 (D-3)	С	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-19 ROJ-V-19
Q1E21V0037B ACCUMULATOR	1	AC	12	СК	S	Α	D-175038/2 (D-6)	С	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-19 ROJ-V-19
Q1E21V0037C ACCUMULATOR	1	AC	12	СК	S	A	D-175038/2 (D-8)	С	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-19 ROJ-V-19
Q1E21V0049 (HV8871) SIS ACCUMULA	2	A	3/4	GL	AO	A	D-175038/2 (E-9)	С	С	С	PIT STC LJ-C	2Y Q LJ	

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# Unit 1

#### E21 - HHSI/CVCS

							PID				<u> </u>		
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E21V0050	2	Α	3/4	GL	AO	A	D-175038/2	С	С	С	PIT	2Y	
(HV8961)							(E-10)				STC	Q	
SIS ACCUMULAT	OR TE	ST TO	RWST (	PEN 29)							LJ-C	IJ	
Q1E21V0052	2	AC	1	CK	S	Α	D-175038/2	С	С	N/A	ETC	RF	ROJ-V-11
							(D-9)				LJ-C	LJ	
SIS ACCUMULAT	OR FIL	L (PE	N 49)								BDTO	RF	
Q1E21V0058	2	AC	1	CK	S	Α	D-175038/2	С	С	NA	ETC	RF	ROJ-V-11
							(A- <del>9</del> )				LJ-C	LJ	
NITROGEN SUPP	LY TO	ACCL	MULATO	OR TANKS	(PEN 63)		<b>、</b> ,				BDTO	RF	
Q1E21V0059	2	Α	1	GL	AO	A	D-175038/2	С	С	С	PIT	2Y	· · · · · · · · · · · · · · · · · · ·
(HV8880)							(A-10)		-		STC	Q	
NITROGEN SUPP	LY TO	ACCL	MULATO	OR TANKS	(PEN 63)		<b>、</b>				LJ-C	IJ	
Q1E21V0062A	1	С	2	CK	S	Α	D-175038/1	С	0	NA	BDTC	RF	
					•		(E-3)	-	Ū		ETO	RF	ROJ-V-13
HHSI TO RCS(CL	.)						()						
Q1E21V0062B	1	С	2	СК	S	Α	D-175038/1	С	0	NA	BDTC	RF	
							(E-3)		-		ETO	RF	ROJ-V-13
HHSI TO RCS(CL	)						. ,						
Q1E21V0062C	1	С	2	CK	S	Α	D-175038/1	С	0	NA	BDTC	RF	
							(F-3)				ETO	RF	ROJ-V-13
HHSI TO RCS(CL	)						. ,						
Q1E21V0063	2	В	3	GA	MO	A	D-175038/1	C	O/C	Al	PIT	2Y	
(MOV8885)							(B-6)				STO	RF	ROJ-V-14
CHG (HHSI) PUM	PS DIS	СН ТС	D RCS(CL	_)							STC	RF	ROJ-V-14
Q1E21V0066A	1	С	2	CK	S	A	D-175038/1	С	0	NA	BDTC	RF	
		-	_		-		(A-4)	-	-		ETO	RF	ROJ-V-13
CHG (HHSI) PUM	PS DIS	SCH TO	RCS(CI	-)									
Q1E21V0066B	1	С	2	CK	S	Α	D-175038/1	С	0	NA	BDTC	RF	
							(B-4)	-	-		ETO	RF	ROJ-V-13
CHG (HHSI) PUM	PS DIS	СН ТС	D RCS(CI	)			. ,						
				-/									······································

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# Unit 1

## E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E21V0066C	1	С	2	СК	S	Α	D-175038/1 (C-4)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
CHG (HHSI) PUN	IPS DIS	SCH TO	RCS(CL	.)			. ,						
Q1E21V0068 (MOVB886)	2	В	3	GA	MO	Α	D-175038/1 (H-7)	С	O/C	Al	PIT STO	2Y RF	ROJ-V-14
CHG (HHSI) PUN	IP DISC	CH TO	RCS(HL)								STC	RF	ROJ-V-14
Q1E21V0072 (MOV8884)	2	В	3	GA	MO	A	D-175038/1 (J-6)	С	O/C	AI	PIT STO	2Y RF	ROJ-V-14
CHG (HHSI) PUN			······								STC	RF	ROJ-V-14
Q1E21V0076A WATER FROM R		AC		CK	S NP 1	A	D-175038/1 (F-4)	С	O/C	NA	ETO LTA ETC	RF LA RF	ROJ-V-21 ROJ-V-21
Q1E21V0076B	1	AC	6	СК	S	A	D-175038/1 (G-4)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-21 ROJ-V-21
WATER FROM R	ESIDU	AL HX	TO SI TO	RCS LOC	)P 2						LTA	LA	
Q1E21V0077A	1	AC	6	СК	S	A	D-175038/1 (F-2)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-18 ROJ-V-18
HHSI/LHSI AND F	RHR TO	D RCS	HL LOOP	1	_						LTA	LA	
Q1E21V0077B	1	AC	6	СК	S	A	D-175038/1 (G-2)	С	O/C	NA	ETO ETC LTA	RF	ROJ-V-18 ROJ-V-18
HHSI/LHSI AND F												LA	
Q1E21V0077C	1	AC	6	CK	S	A	D-175038/1 (G-1)	С	O/C	NA	ETC LTA	RF LA	ROJ-V-18
HHSI/LHSI AND F	RHR TO	D RCS	HL LOOP		_						ETO	RF	ROJ-V-18
Q1E21V0078A	1	С	2	СК	S	Α	D-175038/1 (G-3)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS													
Q1E21V0078B	1	С	2	CK	S	Α	D-175038/1 (G-3)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS	SCHAR	GE TO	RCS LOO	OPS HL									

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## Unit 1 E21 - HHSI/CVCS

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							PID		_		_		
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E21V0078C	1	С	2	СК	S	A	D-175038/1	С	0	NA	BDTC	RF	
							(G-3)				ETO	RF	ROJ-V-13
HHSI PUMPS DIS													
Q1E21V0079A	1	С	2	СК	S	Α	D-175038/1 (G-3)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LOO	OPS HL									
Q1E21V0079B	1	С	2	СК	S	Α	D-175038/1	С	0	NA	BDTC	RF	*********
							(G-2)				ETO	RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL									
Q1E21V0079C	1	С	2	СК	S	A	D-175038/1	С	0	NA	BDTC	RF	
							(G-2)				ETO	RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO									·····	
Q1E21V0091	2	A	1	GL	AO	Α	D-175038/2	С	С	С	PIT	2Y	
(HV8860)							(D-10)				STC	Q	
SIS ACCUMULAT							,				LU-C	ω	
Q1E21V0115A	2	AC	2	CK	S	Α	D-175039/1	0	O/C	NA	ETO	Q	
				- <b>-</b>			(G-2)				LJ-C ETC	lt RF	ROJ-V-15
CVCS SEAL INJE				<u> </u>									hOJ-V-15
Q1E21V0115B	2	AC	2	CK	S	Α	D-175039/1	0	O/C	NA	ETO ETC	Q RF	ROJ-V-15
	OTION			001			(G-2)				L-C	LT	HUJ-V-15
CVCS SEAL INJE							D 475000/4	~~~					
Q1E21V0115C	2	AC	2	СК	S	A	D-175039/1	0	O/C	NA	ETO ETC	Q RF	ROJ-V-15
CVCS SEAL INJE			D /DEN	26)			(G-2)				LI-C	LT	nuu"¥*10
	2	AC			S	A	D 175000/4	0	0/0		ETO		
Q1E21V0119	2	AU	3	СК	3	A	D-175039/1 (B-11)	0	O/C	NA	ETC	Q RF	ROJ-V-12
CVCS CHARGING	3 PUM	P DISC	HARGE	TO REGEN	IERATIV	E HX.	(0-11)				LI-C	IJ	
Q1E21V0121A	2	C	2	CK	S	<u>A</u>	D-175039/6	O/C	O/C	NA	ETPO	ARFD	······································
	-	~	~	011	Ŭ	~	(C-6)	0.0	0,0		ETO	RF	ROJ-V-23
1A CHG PUMP M	IN FLO	W HN					/				ETC	Q	

# Unit 1

## E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E21V0121B	2	С	2	СК	S	Α	D-175039/6 (E-6)	O/C	O/C	NA	ETPO ETO	ARFD RF	ROJ-V-23
1B CHG PUMP M	IN FLC	W LIN	E CHECK	VALVE			()				ETC	Q	
Q1E21V0121C	2	С	2	СК	S	Α	D-175039/6 (G-6)	O/C	O/C	NA	ETPO ETO	ARFD RF	ROJ-V-23
1C CHG PUMP M	IN FLC	W LIN	E CHECK	VALVE							ETC	Q	
Q1E21V0122A	2	С	3	СК	S	Α	D-175039/6 (C-5)	O/C	O/C	NA	ETO ETC	RF Q	ROJ-V-16
1A CHARGING P	UMP D	ISCHA	RGE										
Q1E21V0122B	2	С	3	CK	S	Α	D-175039/6 (E-5)	O/C	O/C	NA	ETO ETC	RF Q	ROJ-V-16
1B CHARGING P		ISCHA	RGE										
Q1E21V0122C	2	С	3	СК	S	Α	D-175039/6 (G-5)	O/C	O/C	NA	ETO ETC	RF Q	ROJ-V-16
1C CHARGING P	UMP D	ISCHA	RGE						_				
Q1E21V0210	2	C	2	СК	S	A	D-175039/6 (G-10)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-07
<b>CVCS BA FILTER</b>	TO CI	HARGI	NG PUMF	SUCTION	1								
Q1E21V0213	2	AC	3/4	СК	S	Α	D-175039/1 (D-11)	C	O/C	NA	ETC LJ-C	RF LJ	ROJ-V-20
RCP SEAL TO SE	EAL W/	ATER H	IX (PEN 2	28)							ETO	RF	ROJ-V-20
Q1E21V0220A	3	С	2	СК	S	A	D-175039/3 (F-5)	С	O/C	NA	ETO ETC	CSD/RF Q	CSJ-V-10
BORON TRANSF	ER PU	MP DIS	SCHARGE	E LINE CHE	ECK VAL	VE	. ,						
Q1E21V0220B	3	С	2	СК	S	A	D-175039/3 (H-5)	С	O/C	NA	ETO ETC	CSD/RF Q	CSJ-V-10
BORON TRANSF	ER PU	MP DIS	CHARGE	E LINE CHE	ECK VAL	VE	· ·						
Q1E21V0249A (MOV8112) RCP SEAL TO SE	2 Al W/		3 IX (PEN 2	GA PB)	MO	A	D-175039/1 (C-11)	Ö	С	AI	PIT STC LJ-C	2Y RF LJ	ROJ-V-17

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## Unit 1

# E21 - HHSI/CVCS

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							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E21V0249B (MOV8100)	2	A	3	GA	MO	A	D-175039/1 (C-11)	0	С	AI	STC LJ-C PIT	RF LJ	ROJ-V-17
RCP SEAL TO SE												2Y	
Q1E21V0251	2	С	2X3	SR	S	A	D-175039/1 (C-10)	С	O/C	NA	ETSP	T	
RCP SEAL WATE	R RET	URN L	INE RELI	EF									
Q1E21V0253A (HV8149A) LETDOWN ORFI	2 CE ISO	A (PEN :	2	GL	AO	A	D-175039/1 (A-7)	O/C	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-06
Q1E21V0253B (HV8149B) LETDOWN ORIF	2	A	2	GL	AO	A	D-175039/1 (A-7)	O/C	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-06
Q1E21V0253C (HV8149C) LETDOWN ORIFI	2	A	2	GL	AO	A	D-175039/1 (A-6)	O/C	С	C	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-06
Q1E21V0254 (HV8152) LETDOWN LINE	2 CTMT	A SO (PE	3 EN 23)	GL	AO	A	D-175039/1 (A-11)	0	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-08
Q1E21V0255	2	AC	2X3	SR	S	A	D-175039/1 (A-7)	С	O/C	NA	ETSP LJ-C	Т Ц	
LETDOWN ORIF			······					·····					
Q1E21V0257 (MOV8107)	2	Α	3	GA	MO	Α	D-175039/6 (B-1)	0	С	Ai	PIT STC		CSJ-V-08
CVCS CHG PUM						•)	·····			_	LU-C	<u>LJ</u>	······································
Q1E21V0258 (MOV8108)	2	A	3	GA	MO	Α	D-175039/6 (B-2)	0	С	Al	STC LJ-C	L	CSJ-V-08
CVCS CHG PUM					<u> </u>	<u> </u>					PIT	2Y	
Q1E21V0259A (MOV8109A) CHG PUMP MINI	2 FLOW	B LINE 8	2 SO VALV	GL	MO	Α	D-175039/6 (B-5)	0	O/C	AI	PIT STO STC	2Y Q Q	

Joseph M. Farle	ey Nuclear	r Plant IST	Program
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## Unit 1

# E21 - HHSI/CVCS

······································							PID						
Valve ID	cc	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E21V0259B (MOV8109B) CHG PUMP MINI	2 FLOW	B	2 SO VALV	GL	MO	Ā	D-175039/6 (D-5)	0	O/C	AI	STO STC PIT	Q Q 2Y	
Q1E21V0259C (MOV8109C) CHG PUMP MINI	2 FLOW	B	2 SO VALV	GL	MO	A	D-175039/6 (F-5)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q1E21V0263A 0.75 INCH RELIE	2		3/4X1	SR DUMD SI	S	A	D-175039/6 (C-9)	С	O/C	NA	ETSP LJ-C	T LJ	
59)	r 313-r	111111	A TO ONC	a FORME S									
Q1E21V0263B	2	AC	3/4X1	SR	S	Α	D-175039/6 (H-8)	C	O/C	NA	ETSP LJ-C	Т Ц	
0.75 INCH RELIE 59)	f SIS-F	RHR H	X TO CHO	B PUMP SI	UCTION (	PEN							
Q1E21V0264 (MOV8104) EMERGENCY BC	2 DRATE	B TO CH	2 IG PUMP	GL	MO	A	D-175039/6 (G-10)	С	O/C	AI	PIT STO STC	2Y Q Q	
Q1E21V0265 (MOV8106) CHARGING PUM	2	В	3		MO	Α	D-175039/2 (H-4)	0	O/C	AI	PIT STO STC	2Y CSD/RF CSD/RF	CSJ-V-11 CSJ-V-11
Q1E21V0324A (MOV8130A) CHG PUMP SUC	2	В	8	GA	MO	A	D-175039/6 (E-8)	0	O/C	AI	PIT STO STC	2Y Q Q	
Q1E21V0324B (MOV8130B) CHG PUMP SUC	2	В	8	GA	MO	A	D-175039/6 (E-8)	0	O/C	Al	PIT STC STO	2Y Q Q	
Q1E21V0325A (MOV8131A) CHG PUMP SUC	2	В	8	GA	MO	A	D-175039/6 (G-8)	0	O/C	AI	PIT STO STC	2Y Q Q	

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# Unit 1

## E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E21V0325B (MOV8131B)	2	В	8	GA	MO	Α	D-175039/6 (G-6)	0	O/C	AI	PIT STO	2Y Q	
CHG PUMP SUCT	ION H	IEADEF	R ISOLAT	ION VALV	E		•				STC	Q	
Q1E21V0326A (MOV8132A)	2	В	4	GA	MO	A	D-175039/6 (D-5)	0	O/C	Al	PIT STO	2Y RF	ROJ-V-22
CHG PUMP DISCH				······			·····				STC	RF	ROJ-V-22
Q1E21V0326B (MOV8132B) CHG PUMP DISCH	2 HARG	B	4	GA	MO	A	D-175039/6 (E-5)	0	O/C	Ai	sto Stc Pit	RF RF 2Y	ROJ-V-22 ROJ-V-22
Q1E21V0327A (MOV8133A) CHG PUMP DISCH	2 IARG	B	4	GA	MO	A	D-175039/6 (F-5)	0	- O/C	Al	PIT STC STO	2Y RF RF	ROJ-V-22 ROJ-V-22
Q1E21V0327B (MOV8133B) CHG PUMP DISCH	2 HARG	B	4	GA	MO	Α	D-175039/6 (F-5)	0	O/C	Al	PIT STO STC	2Y RF RF	ROJ-V-22 ROJ-V-22
Q1E21V0336A (LCV115B) CHG PUMP SUCT	2 ION F		8 WST	GA	MO	A	D-175039/6 (D-9)	С	O/C	AI	STC PIT STO	2Y	CSJ-V-09 CSJ-V-09
Q1E21V0336B (LCV115D)	2	B	8	GA	MO	Α	D-175039/6 (G-9)	С	O/C	Al	STC PIT STO	2Y	CSJ-V-09 CSJ-V-09
CHG PUMP SUCT Q1E21V0376A (LCV115C) VCT OUTLET ISO	2	B	4	GA	MO	A	D-175039/2 (H-8)	0	С	Al	PIT STC	2Y	CSJ-V-09
Q1E21V0376B (LCV115E) VCT OULTET ISO	2	В	4	GA	MO	A	D-175039/2 (H-8)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-09
Q1E21V0565A (HV8175A) CVCS LETDOWN	2 LINE	B	3 TION	GL	AO	A	D-175039/1 (A-10)	0	С	С	PIT STC	2Y CSD/RF	CSJ-V-08

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					Josepi	h M. I	Farley Nucle	ar Plai	nt IST	Progra	am		
Unit 1													
							E21 - HHS	SI/CVC	S				-
Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E21V0565B (HV8175B)	2	В	3	GL	AO	A	D-175039/1 (A-10)	0	С	С	PIT STC	2Y	CSJ-V-08

## Unit 1

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E22 - Reactor Cavity Post-LOCA Dilution

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PiD (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
<b>Q1E22V0001A</b> (MOV3872A) 1A RX CAVITY H	Aug 2 DILUT		2 1/2 AN DAMF	GA PER	MO	A	D-175019 (D-5)	С	0	AI	PIT STO	2Y Q	<u> </u>
Q1E22V0001B (MOV3872B) 1B RX CAVITY H	Aug 2 DILU1	B TON F	2 1/2" AN DAMF	ga Per	MO	A	D-175019 (E-5)	С	0	AI	PIT STO	2Y Q	

#### Unit 1

## E23 - Post Accident Ctmt Vent and Sample

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1E23V0002 (MOV3740)	2	A	6	GL	MO	A	D-175019 (C-10)	LC	С	AI	STC LJ-C	а Ш	
CTMT POST-LOC	A VEN	IT (PEN	103)		_						PIT	2Y	
Q1E23V0003	2	Α	6	GL	MO	Α	D-175019	LC	С	Al	PIT	2Y	
(MOV3530)							(C-9)				STC	Q	
CTMT POST-LOC	A VEN	IT (PEN	<u>103)</u>						····		W-C	LJ	
Q1E23V0022A	2	Α	3/4	GL	MO	Α	D-175019	LC	С	AI	PIT	2Y	
(MOV3528A)							(B-8)				STC	Q	
CTMT POST-LOC	A SAN	APLE (F	PEN 67)								ы-С	LJ	
Q1E23V0022B	2	Α	3/4	GL	MO	Α	D-175019	LC	С	AI	PIT	2Y	
(MOV3528B)							(C- <del>9</del> )				STC	Q	
CTMT POST-LOC	A SAN	APLE (F	PEN 67)								LJ-C	Ы	
Q1E23V0022C	2	A	3/4	GL	MO	Α	D-175019	LC	c	Al	PIT	2Y	
(MOV3528C)							(D-8)				STC	Q	
CTMT POST-LOC	A SAN	APLE (F	PEN 61A)								lu-C	Ы	
Q1E23V0022D	2	Α	3/4	GL	MO	Α	D-175019	LC	С	AI	PIT	2Y	
(MOV3528D)							(D-9)				STC	Q	
CTMT POST-LOC	A SAN	APLE (F	PEN 61A)								မ-C	IJ	
Q1E23V0023A	2	A	3/4	GL	MO	A	D-175019	LC	С	Al	PIT	2Y	
(MOV3739A)							(C-10)				STC	Q	
CTMT AIR SAMPI	LE (PE	N 67)									W-C	Ы	
Q1E23V0023B	2	A	3/4	GL	MO	A	D-175019	LC	С	Al	PIT	2Y	
(MOV3739B)							(D-10)				STC	Q	
CTMT AIR SAMPI	LE (PE	N 61A)									LJ-C	LJ	
Q1E23V0024A	2	A	3/4	GL	MO	Α	D-175019	LC	С	Al	PIT	2Y	······
(MOV3745A)							(G-10)				STC	Q	
CTMT AIR SAMPI	LE RE	TURN (	PEN 66)								M-C	IJ	
Q1E23V0024B	2	A	3/4	GL	MO	A	D-175019	LC	С	AI	STC	Q	·····
(MOV3745B)							(F-10)		-		LJ-C	ū	
CTMT AIR SAMPI	LE RE	TURN (	PEN 61B	)							PIT	2Y	

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## Unit 1

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E23 - Post Accident Ctmt Vent and Sample

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1E23V0025A (MOV3835A) CTMT POST-LOC	2 CA SAN	A IPLE R	3/4 ETURN (	GL PEN 66)	MO	A	D-175019 (G-9)	LC	С	AI	PIT STC LJ-C	2Y Q LJ	
Q1E23V0025B (MOV3835B) CTMT POST-LOC	2 CA SAN	A IPLE RI	3/4 ETURN (	GL (PEN 61B)	MO	A	D-175019 (F-9)	LC	С	Al	PIT STC LJ-C	2Y Q LJ	

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## Unit 1

# G21 - Liquid Waste Disposal

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N1G21V0222	Aug	С	3/4X1	SR	S	A	D-175004/1 (H-9)	C	O/C	NA	ETSP	T	
CTMT SUMP PU	MP REI	IEF V	ALVE (PE	N 78)			<b>、</b>						
Q1G21HV3376	2	A	3	GL	AO	A	D-175004/1 (H-8)	0	С	С	PIT STC	2Y Q	
CTMT SUMP PU	MP DIS	CHAR	GE (PEN	78)							LJ-C	LJ	
Q1G21HV3377	2	A	3	GL	AO	A	D-175004/1 (H-8)	0	С	С	PIT STC	2Y Q	
CTMT SUMP PU	MP DIS	CHAR	GE (PEN								LJ-C	LJ	
Q1G21HV3380	2	A	2	GL	AO	A	D-175004/1 (G-8)	0	С	C	PIT STC LJ-C	2Y Q LJ	
CTMT SUMP RE													
Q1G21V0001 (HV7150)	2	A	3/4	D	AO	A	D-175042/1 (B-5)	C	С	С	PIT STC	2Y Q	
REACTOR COOL SYSTEM(PEN62)	)	RAIN		NT TO WA							LJ-C	IJ	
Q1G21V0005 (V7135)	2	Ā	3	D	M	Ρ	D-175042/1 (C-11)	LC	LC	N/A	IJ-C	IJ	······································
RCDT PUMP DIS	сн со	NTRO	L VALVE	BYPASS(F	PEN31)								
Q1G21V0006 (HV7136)	2	A	3	D	AO	A	D-175042/1 (C-10)	0	С	C	PIT STC	2Y Q	
RCDT PUMP DIS	CH TO	RECY	CLE HOL		<i>`</i>						LJ-C	IJ	
Q1G21V0064 (LCV1003)	2	Α	3	GL	AO	A	D-175042/1 (C-10)	0	С	С	PIT STC	2Y Q	
RCDT PUMP DIS	SCH CC	NTRO	L VALVE(	PEN 31)							LJ-C	LJ	
Q1G21V0082 (HV7126)	2	A	3/4	D	AO	Α	D-175042/1 (C-4)	0	C	С	PIT STC	2Y Q	
RCDT VENT TO	WASTE		SYSTEM(	PEN 62)							LJ-C	LJ	
Q1G21V0204 CTMT SUMP RE	2 CIRC (F		2	СК	S	A	D-175004/1 (G-9)	O/C	O/C	N/A	ETO ETC LJ-C	RF RF LJ	ROJ-V-24 ROJ-V-24
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Unit	1
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Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1G21V0291	2	AC	3/4	CK	S		D-175004/1	C	O/C	N/A	ETO	BF	ROJ-V-25
0102140291	2	AC	3/4	Ch	3	A	(H-8)	U	0/0	IN/74	ETC	RF	ROJ-V-25
CTMT SUMP PU	MP DIS	CHARC	ЭE				(				LJ-C	L	
Q1G21V0950	2	AC	3/4x1	SR	S	Α	D-175042	С	O/C	NA	ETSP	T	
							(C-9)				မ-C	Ш	

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## Unit 1

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G24 - Steam Generator Blowdown

							PID			_			
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1G24V0003A (HV7614A)	2	В	2	GL	AO	Α	D-175071/1 (E-3)	O/C	С	С	PIT STC	2Y Q	
SG BLOWDOWN	ISOLA	TION V	/ALVE						_				
Q1G24V0003B (HV7614B)	2	В	2	GL	AO	Α	D-175071/1 (G-3)	O/C	С	С	PIT STC	2Y Q	
SG BLOWDOWN	ISOLA	TION V	/ALVE										
Q1G24V0003C (HV7614C) SG BLOWDOWN	2	B	2	GL	AO	A	D-175071/1 (H-3)	O/C	С	C	PIT STC	2Y Q	
Q1G24V0005A (HV7697A)	2	В	2	GL	AO	A	D-175071/1 (D-4)	O/C	С	C	PIT STC	2Y Q	
SG BLOWDOWN													
Q1G24V0005B (HV7698A)	2	В	2	GL	AO	A	D-175071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
SG BLOWDOWN	BLOC	K VALV	<u>/E</u>										
Q1G24V0005C (HV7699A)	2	B	2	GL	AO	Α	D-175071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
SG BLOWDOWN	BLOC	K VALV	Æ										
Q1G24V0006A (HV7697B) SG BLOWDOWN	2 ISOLA		2 /ALVE	GL	AO	A	D-175071/1 (D-4)	O/C	С	C	PIT STC	2Y Q	
Q1G24V0006B (HV7698B) SG BLOWDOWN	2	В	2	GL	AO	Ā	D-175071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
Q1G24V0006C (HV7699B) SG BLOWDOWN	2 ISOLA		2 /ALVE	GL	AO	A	D-175071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	

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					Josep	h M. I	Farley Nucle Uni		nt IST	Progra	am		Page 29 of 72
						G31	- Spent Fue		Coolin	g			raye 29 01 72
Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1G31V0012	2	A	2	D	М	Р	D-175043 (B-4)	LC	С	N/A	LJ-C	LJ	
SPENT FUEL PO	OL CL	EAN-UF	TO REA	ACTOR CA	VITY(PE	N 95)							
Q1G31V0013	2	AC	2	CK	S	Р	D-175043 (B-3)	С	С	N/A	LJ-C	LJ	
SPENT FUEL PO	OL CLE	EAN-UF	TO REA	CTOR CA	VITY(PE	N 95)							

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### Unit 1

#### N11 - Main Steam

							PID		/				
Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N11PV3371A	2	В	6	GL	AO	Α	D-175033 (E-6)	С	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LINE	E ATM	OSPHE	ERIC VEN	T VALVE									
Q1N11PV3371B	2	B	6	GL	AO	A	D-175033 (E-6)	Ċ	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LINE	ATM	OSPHE	ERIC VEN	IT VALVE									
Q1N11PV3371C	2	В	6	GL	AO	Α	D-175033 (E-6)	С	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LINE	E ATM		ERIC VEN	IT VALVE									
Q1N11V0001A (HV3369A) MAIN STEAM ISOL	2 _ATIO		32 VE	СК	AO/S	Α	D-175033/1 (G-7)	0	С	С	BDTO PIT STC	Normal Op 2Y CSD/RF	s CSJ-V-12
Q1N11V0001B (HV3369B) MAIN STEAM ISOL	2	BC	32	СК	AO/S	A	D-175033/1 (E-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-12 s
Q1N11V0001C (HV3369C) MAIN STEAM ISOL	2 .ATIO		32 VE	СК	AO/S	A	D-175033/1 (B-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-12 Is
Q1N11V0002A (HV3370A) MAIN STEAM ISOL	2	BC	32	СК	AO/S	A	D-175033/1 (G-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-12 Is
Q1N11V0002B (HV3370B) MAIN STEAM ISOL	2	BC	32	СК	AO/S	A	D-175033/1 (E-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-12 Is
Q1N11V0002C (HV3370C) MAIN STEAM ISOL	2	BC	32	СК	AO/S	A	D-175033/1 (B-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-12 Is
Q1N11V0003A (HV3368A) MAIN STEAM ISOL	2	В	3	GA	AO	A	D-175033/1 (G-7)	С	C	С	PIT STC	2Y CSD/RF	CSJ-V-13

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#### Unit 1

#### N11 - Main Steam

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1N11V0003B (HV3368B)	2	В	3	GA	AO	A	D-175033/1 (E-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
MAIN STEAM ISO										<u> </u>			
Q1N11V0003C (HV3368C)	2	В	3	GA	AO	A	D-175033/1 (C-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
MAIN STEAM ISO	LATIO	N BYF	ASS		-								
Q1N11V0003D (HV3976A)	2	B	3	GA	AO	A	D-175033/1 (G-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
MAIN STEAM ISO			PASS		- <i></i>								
Q1N11V0003E (HV3976B) MAIN STEAM ISO	2 I <b>ATI</b> O		3	GA	AO	Α	D-175033/1 (E-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
Q1N11V0003F	2	B	3	GA	AO	A	D-175033/1	С	C	С	PIT	2Y	
(HV3976C) MAIN STEAM ISO	-	-	•	GA	AU	А	(C-8)	U	C	C	STC		CSJ-V-13
										6.1.A			
Q1N11V0010A	2	С	6 X 10	SR	S	A	D-175033/1 (G-3)	С	O/C	NA	ETSP	т	
MAIN STEAM SAF													
Q1N11V0010B	2	С	6 X 10	SR	S	A	D-175033/1 (G-4)	С	O/C	N/A	ETSP	Т	
MAIN STEAM SAF	ETY												
Q1N11V0010C	2	С	6 X 10	SR	S	Α	D-175033/1 (G-4)	С	O/C	N/A	ETSP	T	······································
MAIN STEAM SAF	ETY						· ,						
Q1N11V0010D	2	С	6 X 10	SR	S	A	D-175033/1 (G-4)	С	O/C	N/A	ETSP	T	
MAIN STEAM SAF	ETY												
Q1N11V0010E	2	С	6 X 10	SR	S	A	D-175033/1 (G-5)	С	O/C	NA	ETSP	T	

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#### Unit 1

#### N11 - Main Steam

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N11V0011A	2	С	6 X 10	SR	S	A	D-175033/1 (D-3)	С	O/C	NA	ETSP	T	
MAIN STEAM SA	FETY						( )						
Q1N11V0011B	2	С	6 X 10	SR	S	Α	D-175033/1 (D-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY						<b>`</b> ,		·				
Q1N11V0011C	2	С	6 X 10	SR	S	A	D-175033/1 (D-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY						. ,						
Q1N11V0011D	2	С	6 X 10	SR	S	Α	D-175033/1 (D-4)	C	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY												
Q1N11V0011E	2	С	6 X 10	SR	S	Α	D-175033/1 (D-5)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY				_								
Q1N11V0012A	2	С	6 X 10	SR	S	A	D-175033/1 (B-3)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY												
Q1N11V0012B	2	С	6 X 10	SR	S	Α	D-175033/1 (B-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY												
Q1N11V0012C	2	С	6 X 10	SR	S	A	D-175033/1 (B-4)	С	O/C	NA	ETSP	т	
MAIN STEAM SA	FETY												
Q1N11V0012D	2	С	6 X 10	SR	S	Α	D-175033/1 (B-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY					_		_					
Q1N11V0012E	2	С	6 X 10	SR	S	A	D-175033/1 (B-5)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY												

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### Unit 1

### N12 - Auxiliary Steam

		_					PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N12HV3226	3	В	3	GL	AO	A	D-175033/2 (D-5)	С	0	0	PIT STO	2Y Q	
MAIN STEAM TO	TDAF	W PUM	P										
Q1N12HV3234A	2	B	1	GL	AO	Α	D-175033/2 (G-8)	0	С	С	PIT STC	2Y Q	
MAIN STM LINE TO	O TDA	AFW PL		RM-UP LIN	ΝE								
Q1N12HV3234B	2	В	1	GL	AO	Α	D-175033/2 (C-8)	0	С	С	PIT STC	2Y Q	
MAIN STM LINE T	O TD/	AFW PL	JMP WAF	rm-up lin	NE								
Q1N12MOV3406	3	В	3	GL	MO	P	D-175033/2 (D-4)	0	0	AI	PIT	2Y	
PUMP TURBINE S	TEAM	I FLOW	I THROT	TLE AND	TRIP								
Q1N12V0001A (HV3235A)	2	BC	3	SC	AO/S	Α	D-175033/2 (E-8)	С	O/C	0	ETO PIT	Q 2Y	
MAIN STEAM TO	TDAF	W PUM	IP SHUTC	OFF VALV	E						ETC	Q	
Q1N12V0001B (HV3235B) MAIN STEAM TO	2 TDAF			SC SC	AO/S	A	D-175033/2 (D-8)	С	O/C	0	ETC PIT ETO	Q 2Y Q	
Q1N12V0010A	3	С	4	СК	S	A	D-175033/2 (E-6)	С	O/C	NA	ETPO ETO	ARFD Q	ROJ-V-26
MAIN STEAM TO		W PUM	IP TURBI								ETC	RF	HUJ-V-26
Q1N12V0010B	3	С	4	CK	S	Α	D-175033/2 (C-6)	С	O/C	NA	ETPO ETO	ARFD Q	
MAIN STEAM TO	TDAF	W PUM	IP TURBI	NE				. <u></u>			ETC	RF	ROJ-V-26

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#### Unit 1

#### N21/C22 - Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1C22FCV478	Aug	В	14	A	AO	A	D-175073 (G-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT		GULAT	OR										
Q1C22FCV479	Aug	B	6	GA	AO	Α	D-175073 (F-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR BYPA	SS	_								
Q1C22FCV488	Aug	В	14	A	AO	A	D-175073 (D-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR										
Q1C22FCV489	Aug	В	6	GA	AO	Α	D-175073 (D-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR BYPA	SS									
Q1C22FCV498	Aug	В	14	A	AO	Α	D-175073 (B-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR										
Q1C22FCV499	Aug	В	6	GA	AO	Α	D-175073 (A-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR BYPA	SS									
Q1N21V0001A (MOV3232A) MAIN FEEDWAT	2 ER SUF	BC	14	SC	MO/S	A	D-175073 (G-7)	0	С	NA	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-14
Q1N21V0001B (MOV3232B)	2	BC	14	SC	MO/S	Α	D-175073 (E-7)	0	С	NA	PIT STC	2Y CSD/BF	CSJ-V-14
MAIN FEEDWAT	ER SUP	PLY					()				BDTO	Normal Op	
Q1N21V0001C (MOV3232C) MAIN FEEDWAT	2 ER SUF	BC	14	SC	MO/S	A	D-175073 (B-7)	0	С	NA	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-14

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Joseph M.	Farley	Nuclear	Plant IS7	[•] Program
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#### Unit 1

### N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N1N23V0001	Aug	С	3	СК	S	Α	D-175007 (F-4)	С	0	NA	ETO	Q	
TDAFW PUMP MI	INI FLO	ж сн	ECK VAL	.VE			. ,					_	
N1N23V0005	Aug	С	3	СК	S	Α	D-175007 (C-6)	C	0	NA	ETO	Q	
MDAFW PUMP M	INI FL	WC											
N1N23V0009	Aug	С	3	СК	S	A	D-175007 (D-6)	С	0	NA	ETO	Q	
MDAFW PUMP M	INI FL	WC					·						
N1N23V0013	Aug	С	6	СК	S	Α	D-175007 (F-2)	С	0	NA	ETO	Q	
AFW PUMPS TO	COND	ENSAT	TE STOR						<u> </u>				
Q1N23HV3227A	3	В	3	GL	AO	A	D-175007 (B-8)	0	0	0	PIT STO	2Y Q	
MDAFW PUMP T	O SG 1		·							<u> </u>			
Q1N23HV3227B	3	В	3	GL	AO	Α	D-175007 (D-8)	0	0	0	PIT STO	2Y Q	
MDAFW PUMP T	O SG	B DIS	CHARGE										
Q1N23HV3227C	3	В	3	GL	AO	Α	D-175007 (G-8)	0	0	0	PIT STO	2Y Q	
MDAFW PUMP T	O SG 1	C DIS	CHARGE	FCV									
Q1N23HV3228A	3	В	3	GL	AO	A	D-175007 (C-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO	DSG 1	A FCV										_	
Q1N23HV3228B	3	В	3	GL	AO	Α	D-175007 (F-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO	D SG 1	B FCV											
Q1N23HV3228C	3	В	3	GL	AO	A	D-175007 (H-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO	) SG 1	C FCV											

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### Unit 1

#### N23 - Auxiliary Feedwater

Q1N23V0002A MDAFW 1A DISCHAF Q1N23V0002B MDAFW 1B DISCHAF Q1N23V0002C MDAFW DISCHARGE Q1N23V0002D TDAFW DISCHARGE	3 RGE 3	Cat. C TO SC C	Size 4	Туре СК	Act. S	A	(Coord) D-175007	NP		FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N23V0002B MDAFW 1B DISCHAF Q1N23V0002C MDAFW DISCHARGE Q1N23V0002D TDAFW DISCHARGE	3		2				(B-6)	С	O/C	NA	ETO ETC	CSD/RF Q	CSJ-V-15
MDAFW 1B DISCHAF Q1N23V0002C MDAFW DISCHARGE Q1N23V0002D TDAFW DISCHARGE	-	С	2				(00)					-	
Q1N23V0002C MDAFW DISCHARGE Q1N23V0002D TDAFW DISCHARGE	RGE	-	4	СК	S	A	D-175007 (E-6)	С	O/C	NA	ETO ETC	CSD/RF Q	CSJ-V-15
MDAFW DISCHARGE Q1N23V0002D TDAFW DISCHARGE		TO SO	3				. ,						
Q1N23V0002D TDAFW DISCHARGE	3	С	4	СК	S	A	D-175007 (B-9)	С	0	NA	BDTC ETO	RF CSD/RF	CSJ-V-15
TDAFW DISCHARGE	ETC	) SG 1/	4				• ,						
	3	С	4	СК	S	A	D-175007 (C-9)	С	O/C	NA	ETO ETC		CSJ-V-15 CSJ-V-16
Q1N23V0002E	ETO	SG 1A	۱ <u> </u>										
	3	С	4	СК	S	A	D-175007 (D- <del>9</del> )	С	0	NA	BDTC ETO	RF CSD/RF	CSJ-V-15
MDAFW DISCHARGE	ETC	) SG 18	3										
Q1N23V0002F	3	С	4	CK	S	Α	D-175007 (F-9)	С	O/C	NA	ETC ETO		CSJ-V-16 CSJ-V-15
TDAFW DISCHARGE	E TC	SG 1E	3										
Q1N23V0002G	3	С	4	CK	S	Α	D-175007 (G-9)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-15
MDAFW DISCHARGE	ETC	) SG 10	0										
Q1N23V0002H	3	С	4	СК	S	A	D-175007 (H-9)	С	O/C	NA	ETO ETC		CSJ-V-15 CSJ-V-16
TDAFW DISCHARGE	E TO	SG 10	)										
Q1N23V0003	3	С	6	СК	S	Α	D-175007 (G-6)	С	0	NA	BDTC ETO	RF CSD/RF	CSJ-V-15
TDAFW DISCHARGE	E TO	SG											
Q1N23V0006		С	8	CK	S	A	D-175007	C	O/C	NA	ETO	COD/DE	CSJ-V-15

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#### Unit 1

#### N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N23V0007A	3	С	6	СК	s	A	D-175007 (B-3)	С	O/C	NA	ETO ETC		CSJ-V-15 CSJ-V-17
MDAFW PUMP S	UCTIO	N FRO	M COND	ENSATE S	STORAGE	TAN	(						
Q1N23V0007B	3	С	6	СК	S	A	D-175007 (E-3)	С	O/C	NA	ETO ETC		CSJ-V-15 CSJ-V-17
MDAFW PUMP S	UCTIO	N FRO	M COND	ENSATE S	STORAGE	TAN	<						· · · · · · · · · · · · · · · · · · ·
21N23V0011A (MOV3350A) AUX FEEDWATE	2 R TO 5	C SG 1A	4	СК	MO/S	A	D-175007 (B-10)	С	O/C	NA	ETO STC PIT	CSD/RF Q 2Y	CSJ-V-15
Q1N23V0011B (MOV3350B) AUX FEEDWATE	2	С	4	СК	MO/S	A	D-175007 (D-10)	С	O/C	NA	ETO STC PIT	CSD/RF Q 2Y	CSJ-V-15
21N23V0011C (MOV3350C) AUX FEEDWATE	2 R TO S	C 5G 1C	4	СК	MO/S	A	D-175007 (G-10)	С	O/C	NA	ETO STC PIT	CSD/RF Q 2Y	CSJ-V-15
Q1N23V0013A (MOV3210A) MDAFW PUMP S	3 W INLI	B	6	GA	MO	A	D-175007 (A-3)	С	0	Al	PIT STO	2Y RF	ROJ-V-27
Q1N23V0013B (MOV3210B) MDAFW PUMP S	3	В	6	GA	MO	A	D-175007 (D-3)	С	0	Al	PIT STO	2Y RF	ROJ-V-27
Q1N23V0014A (MOV3209A) MDAFW PUMP S	3 W INL	B	8	GA	MO	A	D-175007 (A-2)	С	0	Al	PIT STO	2Y RF	ROJ-V-27
Q1N23V0014B (MOV3209B) MDAFW PUMP S	3 W INLI	B	8	GA	MO	A	D-175007 (D-2)	С	0	Al	STO PIT	RF 2Y	ROJ-V-27
Q1N23V0014C (MOV3216) TDAFW PUMP SV	3 N INLE	B	8	GA	MO	A	D-175007 (G-3)	C	0	AI	PIT STO	2Y RF	ROJ-V-27

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#### Unit 1

### N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1N23V0025A (MOV3764A)	3	В	4	GA	MO	A	D-175007 (B-7)	0	С	AI	PIT STC	2Y Q	
MDAFW PUMP T	O SG 1	Α											
Q1N23V0025B (MOV3764B) MDAFW PUMP TO	3	B	4	GA	MO	A	D-175007 (D-7)	0	С	AI	PIT STC	2Y Q	
Q1N23V0025C (MOV3764C) MDAFW PUMP TO	3	B	4	GA	MO	A	D-175007 (F-7)	0	С	AI	PIT STC	2Y Q	
Q1N23V0025D (MOV3764D) MDAFW PUMP T	3 O SG 1	B	4	GA	MO	A	D-175007 (D-7)	0	С	AI	STC PIT	Q 2Y	
Q1N23V0025E (MOV3764E) MDAFW PUMP TO	3 O SG 1	B	4	GA	MO	Α	D-175007 (B-7)	0	С	AI	PIT STC	2Y Q	
Q1N23V0025F (MOV3764F) MDAFW PUMP T	3	В	4	GA	MO	A	D-175007 (G-7)	0	С	Al	PIT STC	2Y Q	
Q1N23V0068A (PSV2922A)	3	С	1.5	SR	S	Α	D-175007 (B-4)	С	O/C	NA	ETSP	T	
1A MDAFW PUM													
Q1N23V0068B (PSV2922B)	3	С	1.5	SR	S	Α	D-175007 (D-4)	С	O/C	NA	ETSP	Т	
<b>1B MDAFW PUM</b>	P SUC	TION L	INE RELI	EF VALVE									
Q1N23V0068C (PSV2922C) TDAFW PUMP SI	3 UCTIO		1.5 BELIEE		S	A	D-175007 (G-4)	C	O/C	NA	ETSP	Т	

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#### Unit 1

#### N25 - Chemical Injection

PiD AP (Coord) Valve ID CC Cat. Size Туре SP FP **RR/CSJ/ROJ Remarks** NP Freq Act. Test Q1N25V0001A В 1/2 C GL AO O/C PIT 2Y 2 A D-175000/1 С STC (HV3772A) (B-11) Q CHEMICAL INJECTION INTO FEEDWATER Q1N25V0001B 2 В 1/2 AO D-175000/1 O/C С С PIT 2Y GL Α (HV3772B) (D-11) STC Q CHEMICAL INJECTION INTO FEEDWATER Q1N25V0001C 2 В 1/2 GL AO D-175000/1 O/C С PIT 2Y Α С (HV3772C) (F-11) STC Q CHEMICAL INJECTION INTO FEEDWATER

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#### Unit 1

#### P11 - Demineralized Water

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
21P11V0001 HV3659) DEMIN WATER T	2 FO RPV	A	3 STORAG	GL GE STAND	AO (PEN 82)	Р	D-175047 (H-10)	С	С	С	STC PIT LJ-C	Q 2Y LJ	
Q1P11V0002	2	AC	3	СК	S	P	D-175047 (H-8)	С	С	NA	W-C	IJ	

#### Unit 1

### P13 - Containment Purge

							PID			_			
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P13V0281 (HV3198D) PURGE SUPPLY	2		48	В	AO	A	D-175010/2 (F-3)	С	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-18
Q1P13V0282 (HV3197) PURGE SUPPLY	2	A	48	В	AO	A	D-175010/1 (G-10)	С	С	С	PIT STC LJ-C	2Y	CSJ-V-18
Q1P13V0283 (HV3196) CTMT PURGE EX	2 (HAUS	A T (PEN	48 I 13)	В	AO	A	D-175010/1 (E-10)	С	С	С	PIT LJ-C STC	2Y LJ CSD/RF	CSJ-V-18
Q1P13V0284 (HV3198A) CTMT PURGE EX	2	A	48	В	AO	A	D-175010/2 (D-3)	C	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-18
Q1P13V0301 (HV2866C) CTMT MINI-PURC	2 SE SUF	A PPLY (F	8 PEN 12)	В	AO	A	D-175010/2 (F-3)	0	С	С	PIT LJ-C STC	2Y LJ Q	
Q1P13V0302 (HV2866D) CTMT MINI-PURC	2 SE SUF	A PPLY (F	8 PEN 12)	В	AO	A	D-175010/1 (G-10)	0	С	С	PIT STC LJ-C	2Y Q LJ	
Q1P13V0303 (HV2867C) CTMT MINI-PURC	2	A	8	В	AO	A	D-175010/2 (D-3)	0	С	С	PIT STC LJ-C	2Y Q LJ	
Q1P13V0304 (HV2867D) CTMT MINI-PURC	2 GE EX⊦	A IAUST	8 (PEN 13)	В	AO	A	D-175010/1 (E-10)	0	С	C	PIT STC LJ-C	2Y Q LJ	

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## Unit 1

### P15 - Sampling

							PID						
Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P15HV3179A	2	В	3/8	GL	AO	A	D-175009/2	O/C	C	С	PIT	2Y	
							(A-3)				STC	Q	
SG 1A BLOWDOW	VN LO	WER I	SOLATIO					·····					
Q1P15HV3179C	2	8	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
							(A-3)				STC	Q	
SG 1A BLOWDOW	VN SA	MPLE											
Q1P15HV3180A	2	В	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
							(G-3)				STC	Q	
SG 1B BLOWDOW										<u> </u>	·-· ·· ·· ·· ·		
Q1P15HV3180C	2	B	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
							(C-3)				STC	Q	
SG 1B BLOWDOW		·····											
Q1P15HV3181A	2	В	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
							(E-3)				STC	Q	
SG 1C BLOWDOV													
Q1P15HV3181C	2	В	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
							(E-3)				STC	Q	
SG 1C BLOWDOV													
Q1P15HV3328	2	B	3/ <b>8</b>	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
			001 470				(A-3)				STC	Q	
SG 1A BLOWDOW					10								
Q1P15HV3329	2	B	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
				SNUVALVE			(C-3)				STC	Q	
SG 1B BLOWDOV													
Q1P15HV3330	2	В	3/8	GL	AO	Α	D-175009/2	O/C	С	С	PIT	2Y	
				SNI V/AL V/~			(E-3)				STC	Q	
SG 1C BLOWDOV		·····											
Q1P15HV3334	2	Α	3/8	GL	AO	Α	D-175009/1	C	С	С	PIT STC	2Y	
							(G-5)				51C LJ-C	a W	
ACCUMULATOR	ANK	5 SAMI	LE (PEN	50)					···		<u> </u>		

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### Unit 1

## P15 - Sampling

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P15HV3766	2	A	3/8	GL	AO	Α	D-175009/1	С	С	С	PIT	2Y	
							(G-4)				STC	Q	
ACCUMULATOR	TANKS	SAMF	LE (PEN	50)							LJ-C	IJ	
Q1P15SV3103	2	A	3/8	GL	SO	A	D-175009/1	0	с_	С	PIT	2Y	
							(A-3)		-		STC	Q	
RCS PRESSURIZ	ERLIC	DUID S		PEN 57)			()				LJ-C	IJ	
Q1P15SV3104	2	A	3/8	GL	SO	A	D-175009/2	0	C	C	PIT	2Y	
Q11 10070104	-	~	0,0	ŰĽ	00	~	(F-2)	Ŭ	0	Ŭ	STC	ą	
	TEAM	CANADI	r TO OF		<b>C</b> \		(1-2)				ш-с	มี	
PRESSURIZER S					·····			······					
Q1P15SV3331	2	А	3/8	GL	SO	Α	D-175009/2	0	С	С	PIT	2Y	
							(F-4)				STC	Q	
PRESSURIZER S	TEAM	SAMPL	E LINE (	CTMT ISO(	PEN 56)						Ш-С	Ы	
Q1P15SV3332	2	A	3/8	GL	SO	Α	D-175009/1	0	С	С	PIT	2Y	
							(A-5)				STC	Q	
PRESSURIZER LI	IQUID	SAMPL	E TO GF	FD(PEN 5	7)		( )				LJ-Ç	LJ	
Q1P15SV3333	2	A	3/8	GL	SO	Α	D-175009/1	0	С	C	PIT	2Y	
	•	~	0/0	<b>u</b>	00	~	(C-5)	U	U	U	STC	Q	
DOD (UIL) CAMPLE	с то <i>с</i>						(0-5)				ш-С	ы	
RCS (HL) SAMPL		arru(r	·										
Q1P15SV3765	2	Α	3/8	GL	SO	Α	D-175009/1	0	С	С	PIT	2Y	
							(C-4)				STC	Q	
RCS (HL) SAMPL	E TO C	GFFD (F	PEN 58)								LJ-C	ليا	

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#### Unit 1

### P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N1P16V0718A	Aug	С	2.5	VR	S	A	D-170119/4 (B-10)	C	O/C	С	ETO ETC	RF RF	
SW VACUUM BR	REAKEF	IS - TL	JRBINE BL	DG HVAC	;		. ,						
N1P16V0718B	Aug	С	2.5	VR	S	Α	D-170119/4 (B-10)	С	O/C	С	ETO ETC	RF RF	
SW VACUUM BF	REAKEF	IS - TL	JRBINE BL	DG HVAC	;								
Q1P16V0003A (MOV3130A)	3	В	20	В	MO	Ρ	D-175003/1 (E-2)	0	0	Al	PIT	2Y	
SW TO CCW HX	INLET	LINE I	SO VALVE									_	
Q1P16V0003B (MOV3130B)	3	В	20	8	MO	Р	D-175003/1 (F-2)	0	0	AI	PIT	2Y	
SW TO CCW HX													
Q1P16V0003C (MOV3130C)	3	B	20	В.	MO	Ρ	D-175003/1 (H-3)	0	0	Al	PIT	2Y	
SW TO CCW HX													
Q1P16V0010A (MOV3019A)	2	8	12	B	MO	A	D-175003/1 (A-7)	0	O/C	Al	PIT STO STC	2Y Q Q	
SW TO CTMT AI													
Q1P16V0010B (MOV3019B)	2	В	12	B	MO	A	D-175003/1 (C-7)	0	O/C	AI	STO STC PIT	Q Q 2Y	
SW TO CTMT AI													<u></u>
Q1P16V0010C (MOV3019C)	2	В	12	В	MO	A	D-175003/1 (E-7)	0	O/C	Al	PIT STO	2Y Q	
SW TO CTMT CO											STC	Q	
Q1P16V0010D (MOV3019D) SW TO CTMT CO	2	B	12	8	MO	A	D-1 <b>75003</b> /1 (F-7)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q1P16V0011A	3	C	1 1/2X2	= SR	S		D-175003/1	С	O/C	NA	ETSP	<u>т</u>	
(PSV3020A) SW SUPPLY TO	-	-			3	Α	D-1/5003/1 (A-8)	U	0/0		EISP	1	

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#### Unit 1

#### P16 - Service Water

		_					PID						
Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0011B (PSV3020B) SW SUPPLY TO C	3	C	1 1/2X2	SR	S	A	D-175003/1 (C-8)	С	O/C	NA	ETSP	T	
Q1P16V0011C (PSV3020C)	3	C	1 1/2X2	SR	S	A	D-175003/1 (E-8)	С	O/C	NA	ETSP	T	
SW SUPPLY TO C	TMT	COOL	ERS RELIE	F			. ,						
Q1P16V0011D (PSV3020D)	3	С	1 1/2X2	SR	S	A	D-175003/1 (F-8)	С	O/C	NA	ETSP	т	
SW SUPPLY TO C					<u>-</u>								
Q1P16V0015A (PSV3142A) AFW PUMP ROOM	3 11 C O C	C	3/4 X 1	SR	S	A	D-175003/2 (B-3)	С	O/C	NA	ETSP	Т	
Q1P16V0015B (PSV3142B) AFW PUMP ROOM	3	С	3/4 X 1	SR	S	A	D-175003/2 (D-3)	С	O/C	NA	ETSP	т	
Q1P16V0020A (PSV3137A) RHR/LHSI PUMP I	3	С	3/4 X 1	SR	S	A	D-175003/2 (B-7)	С	O/C	NA	ETSP	т	
Q1P16V0020B (PSV3137B)	3	C	3/4 X 1	SR	S	A	D-175003/2 (B-7)	С	O/C	NA	ETSP	T	
<b>RHR/LHSI PUMP I</b>	ROOM	000	LER RELIE	F									
Q1P16V0025A (PSV3138A)	3	C	3/4 X 1	SR	S	A	D-175003/2 (C-7)	С	O/C	NA	ETSP	T	
CCW PUMP ROO	M COO												
Q1P16V0025B (PSV3138B)	3	С	3/4 X 1	SR	S	Α	D-175003/2 (D-7)	С	O/C	NA	ETSP	Т	
CCW PUMP ROO													
Q1P16V0035A (PSV3139A) CTMT SPRAY PUI	3 MP BC		3/4 X 1	SR	S	A	D-175003/2 (E-7)	С	O/C	NA	ETSP	т	

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#### Unit 1

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P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P16V0035B (PSV3139B)	3	С	3/4 X 1	SR	S	A	D-175003/2 (F-7)	С	O/C	NA	ETSP	Т	
CTMT SPRAY PL	JMP RC	DOW C	OOLER R	ELIEF	_	_							
Q1P16V0043A (MOV3024A)	2	В	10	В	MO	A	D-175003/1 (A-10)	С	O/C	AI	STO STC	0	
SERVICE WATER					·····				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		PIT	2Y	
Q1P16V0043B (MOV3024B) SERVICE WATEI	2 D EMEI	B	10 Ом стмт	B	MO	Α	D-175003/1 (C-10)	С	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0043C (MOV3024C) SERVICE WATE	2	8	10	В	MO	A	D-175003/1 (E-10)	С	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0043D (MOV3024D) SERVICE WATER	2 R EME	B RG FR	10 ОМ СТМТ	B	MO 1D	A	D-175003/1 (F-10)	C	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0044A (MOV3023A) SW FROM CTMT	2 AIR C	B	6 RS	В	MO	A	D-175003/1 (B-10)	0	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0044B (MOV3023B) SW FROM CTMT	2 AIR C	B	6 RS	В	MO	A	D-175003/1 (D-10)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q1P16V0044C (MOV3023C) SW FROM CTMT	2	В	6	В	MO	A	D-175003/1 (E-10)	0	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0044D (MOV3023D) SW FROM CTMT	2 AIR C	B	6 RS	В	MO	A	D-175003/1 (G-10)	0	O/C	Al	PIT STO STC	2Y Q Q	
Q1P16V0052 (MOV3149) SW TO SG BLOV	3 VDOW	B N HX A	10 AND BTRS	B	MO UNITS	A	D-175003/2 (E-2)	0	С	AI	PIT STC	2Y Q	

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#### Unit 1

#### P16 - Service Water

		-					PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0064 (MOV3150)	3	В	10	В	MO	A	D-175003/2 (E-4)	0	С	Ai	PIT STC	2Y Q	······································
SW FROM SG B	LOWDO	DWN F	HX AND BT	rrs Chili	ER UNIT	S							
Q1P16V0069A	3	С	30	СК	S	A	D-170119/2 (C-10)	0	0	NA	ETO BDTC	Q RF	
AUX BLDG SW [	DISCHA	RGE	LINE CHEC	CK VALVE	A TRAIN								
Q1P16V0069B	3	С	30	CK	S	A	D-170119/2 (A-10)	0	0	NA	ETO BDTC	Q RF	
AUX BLDG SW [	DISCHA	RGE	LINE CHEC	CK VALVE	<b>B</b> TRAIN								
Q1P16V0070A	3	С	16	СК	S	Α	D-175003/1 (C-6)	0	0	NA	ETO BDTC	Q Q	
SW TO CTMT C									······				
Q1P16V0070B	3	С	16	СК	S	Α	D-175003/1 (E-6)	0	0	NA	ETO BDTC	Q Q	
SW TO CTMT C	OOLER	S HEA	DER CHE	CK VALVE		<u> </u>							
Q1P16V0071 (MOV3135)	2	A	6	В	MO	A	D-175003/2 (B-9)	0	С	AI	PIT STC	2Y Q	
SW TO RCP MO								·····				ω	
Q1P16V0072 (MOV3134)	2	A	6	В	MO	A	D-175003/2 (B-12)	0	С	AI	PIT STC LJ-C	2Y Q LJ	
SW RETURN FR									-				
Q1P16V0075	2	AC	6	СК	S	A	D-175003/2 (B-9)	0	С	NA	ETC LJ-C	RF LJ	ROJ-V-28
SW TO RCP MO			·····								BDTO	Normal Op	DS
Q1P16V0081 (MOV3131)	2	Α	6	В	MO	A	D-175003/2 (B-12)	0	С	Al	PIT STC	2Y Q	
SW RETURN FR											LJ-C	LJ	
Q1P16V0203 (PSV3397) CTMT PEN 32 TI	2 HERMA	AC L REL	3/4 X 1	SR	S	Α	D-175003/2 (B-12)	С	O/C	NA	ETSP LJ-C	т W	

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#### Unit 1

### P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0204 (PSV3401)	2	AC	3/4 X 1	SR	S	A	D-175003/2 (B-9)	С	O/C	NA	ETSP LJ-C	т Ш	
CTMT PEN 60 TH	ERMA	LREL	IEF VALVE	Ē									
Q1P16V0206A	2	С	12	СК	S	A	D-175003/1 (A-7)	0	O/C	NA	ETPO ETO	ARFD Q	
SW TO CTMT CO	OLER	1A CH	ECK VAL	VE							ETC	RF	ROJ-V-30
Q1P16V0206B	2	С	12	СК	S	A	D-175003/1 (C-7)	0	O/C	NA	ETPO ETO	ARFD	
SW TO CTMT CO		1B Ch				~~~~~	·····				ETC	RF	ROJ-V-30
<b>Q1P16V0206C</b> SW TO CTMT CO	2	C 1C CF	12 JECK VAL	CK	S	Α	D-175003/1 (E-7)	0	O/C	NA	ETPO ETO ETC	ARFD Q RF	ROJ-V-30
Q1P16V0206D SW TO CTMT CO	2	С	12	СК	S	A	D-175003/1 (F-7)	0	O/C	NA	ETPO ETO ETC	ARFD Q RF	ROJ-V-30
Q1P16V0207A (MOV3441A) SW FROM CTMT	2	В	10	В	MO	A	D-175003/1 (A-9)	0	O/C	Al	PIT STO STC	2Y Q Q	
Q1P16V0207B (MOV3441B) SW FROM CTMT	2	8	10	В	MO	Α	D-175003/1 (C-9)	0	O/C	Al	PIT STO STC	2Y Q Q	
Q1P16V0207C (MOV3441C) SW FROM CTMT	2	В	10	В	MO	Α	D-175003/1 (E-9)	0	O/C	AI	PIT STO STC	2Y Q Q	
Q1P16V0207D (MOV3441D)	2	В	10	В	MO	A	D-175003/1 (F-9)	0	O/C	AI	PIT STO	2Y Q	
SW FROM CTMT											STC	Q	
Q1P16V0208A (PSV3442A) CTMT COOLER S	2 W BE	C TURN	1.5 RELIEF V	SR	S	Α	D-175003/1 ()	С	O/C	NA	ETSP	т	

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### Unit 1

#### P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0208B (PSV3442B)	2	С	1.5	SR	S	A	D-175003/1 ()	С	O/C	NA	ETSP	T	
CTMT COOLER S	W RE1	<b>FURN</b>	RELIEF V	ALVE								_	
Q1P16V0208C (PSV3442C)	2	С	1.5	SR	S	A	D-175003/1 ()	С	O/C	NA	ETSP	T	
CTMT COOLER S	W RE1	rurn i	RELIEF V	ALVE									
Q1P16V0208D (PSV3442D)	2	С	1.5	SR	S	Α	D-175003/1 ()	С	O/C	NA	ETSP	Т	
CTMT COOLER S	W RET	TURN I	RELIEF V	ALVE									
Q1P16V0506	3	В	42	B	MO	Р	D-170119/1 (E-7)	AI	Al	Al	PIT	2Y	
1C SW PUMP TO	B HDF	ISO											
Q1P16V0507	3	В	42	В	MO	Ρ	D-170119/1 (E-4)	A	A	AI	PIT	2Y	
1C SW PUMP TO	A HDF	R ISO											
Q1P16V0508	3	В	42	В	MO	P	D-170119/1 (D-11)	0	0	Al	PIT	2Y	
SW INLET TO ST	RAINE	R LINE	ISO VAL	VE									
Q1P16V0511	3	В	42	В	MO	Р	D-170119/1 (D-3)	0	0	Al	PIT	2Y	
SW INLET TO ST	RAINE	R LINE	ISO VAL	.VE									
Q1P16V0514	3	В	24	В	MO	A	D-170119/2 (E-6)	0	С	Al	STC PIT	CSD/RF 2Y	CSJ-V-19
SW SUPPLY TO 1	URBIN	NE BLC	G-TRAIN	NB									
Q1P16V0515	3	В	24	В	MO	Α	D-170119/2 (E-4)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-19
SW SUPPLY TO 1	URBIN	IE BLC	G-TRAIN	A									
Q1P16V0516	3	В	24	B	MO	A	D-170119/2 (D-5)	0	С	AI	PIT STC	2Y CSD/RF	CSJ-V-19
SW TRAIN A TO 1	URBIN	VE BLC	G			_							

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#### Unit 1

P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0517	3	В	24	В	MO	A	D-170119/2 (D-4)	0	С	AI	PIT STC	2Y CSD/RF	CSJ-V-19
SW TRAIN B TO	TURBI	NE BLC	)G				· ,						
Q1P16V0518	3	В	12	В	MO	A	D-170119/3 (B-2)	0	O/C	Al	PIT STC	2Y Q	Note-1
SW TO DG HEA	DER-TF	AIN B					<b>、</b> ,						
Q1P16V0519	3	В	12	В	MO	Α	D-170119/3 (B-2)	0	O/C	Al	STC PIT	Q 2Y	Note-1
SW TO DG HEA	DER-TF	AIN A											
Q1P16V0520	3	B	6	В	MO	Ρ	D-170119/3 (E-2)	0	0	AI	PIT	2Y	· · · · · · · · · · · · · · · · · · ·
SW TO DG LINE	ISO VA	LVE				_							
Q1P16V0521	3	В	6	В	MO	P	D-170119/3 (E-3)	0	0	AI	PIT	2Y	
SW TO DG LINE	ISO VA	LVE						·					
Q1P16V0522	3	В	8	В	MO	P	D-170119/3 (E-6)	С	С	Al	PIT	2Y	
SW TO DG LINE	ISO VA	LVE											
Q1P16V0523	3	В	8	В	MO	Р	D-170119/3 (E-5)	0	0	Al	PIT	2Y	
SW TO DG LINE	ISO VA	LVE										·	
Q1P16V0524	3	В	6	В	MO	Р	D-170119/3 (E-8)	0	0	AI	PIT	2Y	
SW TO DG LINE	ISO VA	LVE					. ,						
Q1P16V0525	3	В	6	B	MO	Р	D-170119/3 (E-9)	0	0	AI	PIT	2Y	
SW TO DG LINE	ISO VA	LVE					. ,						
Q1P16V0526	3	В	8	B	MO	Р	D-170119/3 (E-11)	0	0	AI	PIT	2Y	
SW TO DG LINE	ISO VA	LVE											

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# Unit 1

P16 - Service Water

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Valve ID	cc	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P16V0527	3	В	8	В	MO	P	D-170119/3 (E-12)	0	0	AI	PIT	2Y	
SW TO DG LINE	SO VA	LVE					(_ / _/						
Q1P16V0528	3	B	6	В	MO	P	D-170119/3 (F-3)	0	0	AI	PIT	2Y	
SW FROM DG LIN	NE ISO	VALVE	5										
Q1P16V0529	3	B	6	В	MO	P	D-170119/3 (F-2)	0	0	AI	PIT	2Y	
SW FROM DG LIN	NE ISO	VALVE	<u> </u>				. ,						
Q1P16V0530	3	в	· 8	В	MO	Ρ	D-170119/3 (F-5)	С	С	Al	PIT	2Y	
SW FROM DG LI	NE ISO	VALVE	Ξ										
Q1P16V0531	3	В	8	В	MO	Р	D-170119/3 (F-4)	0	0	Ai	PIT	2Y	
SW FROM DG LI	NE ISO	VALVE	Ē										
Q1P16V0532	3	В	6	В	MO	Ρ	D-170119/3 (F-8)	0	0	AI	PIT	2Y	
SW FROM DG LI	NE ISO	VALVE	Ξ										
Q1P16V0533	3	В	6	В	MO	Ρ	D-170119/3 (F-9)	0	0	Al	PIT	2Y	
SW FROM DG LI	NE ISO	VALVE	Ξ.										
Q1P16V0534	3	В	8	В	MO	P	D-170119/3 (F-11)	0	0	Al	PIT	2Y	
SW FROM DG LI	NE ISO	VALVE	Ē				. ,						
Q1P16V0535	3	В	8	В	MO	P	D-170119/3 (F-12)	0	0	Al	PIT	2Y	
SW FROM DG LI	VE ISO	VALVE	Ξ				. ,						
Q1P16V0536 SW FROM DG HE	3	B	12	В	МО	A	D-170119/3 (G-2)	0	O/C	Al	PIT STC	2Y Q	Note-1

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#### Unit 1

P16 - Service Water

							PiÐ						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P16V0537	3	В	12	В	MO	A	D-170119/3 (G-2)	0	O/C	Al	PIT STC	2Y Q	Note-1
SW FROM DG H	EADER	-TRAIN	A										
Q1P16V0538	3	В	42	В	MO	Α	D-170119/2 (C-10)	С	0	Al	PIT STO	2Y Q	
SW HEADER B	EMERG	RECIP	IC TO ST	ORAGE P	OND								
Q1P16V0539	3	В	42	В	MO	Α	D-170119/2 (E-10)	С	0	Al	PIT STO	2Y Q	
SW HEADER A	EMERG	RECIF	IC TO ST	ORAGE P	OND							<u> </u>	
Q1P16V0540	3	В	24	В	MO	Α	D-170119/2 (D-9)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-19
SW RETURN FF	IOM TU	RBINE	BLDG IS	OLATION		۱							
Q1P16V0541	3	B	24	В	MO	Α	D-170119/2 (B-9)	0	С	Al	STC PIT	CSD/RF 2Y	CSJ-V-19
SW RETURN FF	IOM TU	RBINE	BLDG IS	OLATION	- TRAIN E	3							
Q1P16V0542	3	В	24	B	MO	Α	D-170119/2 (D-10)	0	С	Âİ	PIT STC	2Y CSD/RF	CSJ-V-19
SW RETURN FF	NOM TU	RBINE	BLDG IS	OLATION	- TRAIN A	1							
Q1P16V0543	3	В	24	В	MO	Α	D-170119/2 (B-10)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-19
SW RETURN FF	IOM TU	RBINE	BLDG IS	OLATION	TRAIN E	3							
Q1P16V0545	3	В	30	B	MO	Α	D-170119/2 (A-12)	0	С	Al	STC PIT	Q 2Y	
SW HEADER B	NORMA	L DISC	HDR ISC	)									
Q1P16V0546	3	В	30	В	MO	Α	D-170119/2 (C-12)	0	С	A	PIT STC	2Y Q	
SW HEADER A I	NORMA	L DISC	HDR ISC	)									
Q1P16V0549	3	В	30	B	MO	Α	D-170119/2 (E-12)	0	С	AI	PIT STC	2Y Q	
SW RETURN TO	STAN	)PIPE	LINE ISO	VALVE									

#### Unit 1

#### P16 - Service Water

PID AP (Coord) Valve ID CC Cat. Size Type NP SP FP **RR/CSJ/ROJ Remarks** Act. Test Frea Q1P16V0550 3 R 30 В MO D-170119/2 С AL PIT 2Y Α 0 (C-13) STC Q SW RETURN TO CIRC WATER CANAL LINE ISO VALVE С D-170119/1 Q1P16V0552 3 20 CK s O/C NA ETO Q Α O/C ETC (H-2) 0 SW PUMP 1A DISCHARGE CHECK 3 C 20 CK S D-170119/1 O/C NA ETO Q1P16V0553 Α O/C Q (H-4) ETC Q SW PUMP 1B DISCHARGE CHECK D-170119/1 Q1P16V0554 3 С 20 CK S Α O/C O/C NA ETO Q ETC Q (H-6) . SW PUMP 1C DISCHARGE CHECK S O/C Q1P16V0555 3 C 20 CK D-170119/1 O/C NA ETO Q Α (H-8) ETC Q SW PUMP 1D DISCHARGE CHECK Q1P16V0556 3 С 20 CK S D-170119/1 O/C O/C ETO Q Α NA ETC Q (H-10) SW PUMP 1E DISCHARGE CHECK Q1P16V0557 3 B 24 В MO Ρ D-170119/2 0 0 AI PIT 2Y (F-7) SW DILUTION BYPASS LINE ISO VALVE Q1P16V0558 3 В MO 24 В Р D-170119/2 0 0 AI PIT 2Y (E-3) SW DILUTION BYPASS ISO A TRAIN Q1P16V0564 3 С 12 CK S D-170119/3 0 ETPO ARFD Α 0 NA **ROJ-V-32** ETO RF (G-2) BDTC RF DIESEL GENERATORS 'TRAIN B' SERVICE WATER CHECK VALVE

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Joseph M. Farley Nuclear Plant IS	5T	Program
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### Unit 1

P16 - Service Water

Q1P16V0592         3           SW TO DG LINE ISO V           Q1P16V0593         3           2B DG SW SUPPLY FF	C B TRA B ALVE B ROM U C D PUM	8 8 VIT 1 2 9 SEALS / 2	B B CK AND MOTO CK	MO MO S DR COOL S	P P A	(Coord) D-170119/3 (G-2) D-170119/3 (D-7) D-170119/3 (F-6) D-170113 (E-2) D-170113 (E-11)	NP O C C C	SP 0 C C 0/C	FP NA AI AI NA	Test ETPO ETO BDTC PIT PIT ETO ETC	Freq ARFD RF RF 2Y 2Y 2Y RF RF	ROJ-V-32 ROJ-V-29 ROJ-V-29
DIESEL GENERATORS         VALVE         Q1P16V0592       3         SW TO DG LINE ISO V         Q1P16V0593       3         2B DG SW SUPPLY FF         Q1P16V0635A       3         NON TREATED SW TO         Q1P16V0635B       3         NON TREATED SW TO         Q1P16V0659       3         UNIT 1 SW SUPPLY TO         UNIT 1 SW SUPPLY TO	B ALVE B ROM U C D PUM	N A' SER 8 8 VIT 1 2 SEALS / 2	B B CK AND MOTO CK	ER CHEC MO MO S DR COOL S	R P P A ERS	(G-2) D-170119/3 (D-7) D-170119/3 (F-6) D-170113 (E-2) D-170113	C C C	C C O/C	AI AI NA	ETO BDTC PIT PIT ETO ETC	RF RF 2Y 2Y RF RF	ROJ-V-29 ROJ-V-29
VALVE           Q1P16V0592         3           SW TO DG LINE ISO V           Q1P16V0593         3           2B DG SW SUPPLY FF           Q1P16V0635A         3           NON TREATED SW TC           Q1P16V0635B         3           NON TREATED SW TC           Q1P16V0635B         3           NON TREATED SW TC           Q1P16V0659         3           UNIT 1 SW SUPPLY TC           Q1P16V0660         3           UNIT 1 SW SUPPLY TC	B ALVE B ROM U C D PUM	8 8 VIT 1 2 9 SEALS / 2	B B CK AND MOTO CK	MO MO S DR COOL S	P P A ERS	(D-7) D-170119/3 (F-6) D-170113 (E-2) D-170113	C	C O/C	AI	PIT PIT ETO ETC	2Y 2Y RF RF	ROJ-V-29
SW TO DG LINE ISO V           Q1P16V0593         3           2B DG SW SUPPLY FF           Q1P16V0635A         3           NON TREATED SW TO           Q1P16V0635B         3           NON TREATED SW TO           Q1P16V0635B         3           NON TREATED SW TO           Q1P16V0659         3           UNIT 1 SW SUPPLY TO           Q1P16V0660         3           UNIT 1 SW SUPPLY TO	ALVE B ROM U C D PUM C	8 VIT 1 2 9 SEALS / 2	B CK AND MOTO CK	MO S DR COOL S	P A ERS	(D-7) D-170119/3 (F-6) D-170113 (E-2) D-170113	C	C O/C	AI	PIT ETO ETC	2Y RF RF	ROJ-V-29
Q1P16V0593         3           2B DG SW SUPPLY FF         Q1P16V0635A         3           NON TREATED SW TC         Q1P16V0635B         3           NON TREATED SW TC         Q1P16V0659         3           UNIT 1 SW SUPPLY TC         Q1P16V0660         3           UNIT 1 SW SUPPLY TC         Q1P16V0660         3	B ROM U C D PUM C D PUM	NIT 1 2 P SEALS / 2	CK AND MOTO CK	S DR COOL S	A	(F-6) D-170113 (E-2) D-170113	С	O/C	NA	ETO ETC	RF RF	ROJ-V-29
2B DG SW SUPPLY FF           Q1P16V0635A         3           NON TREATED SW TC           Q1P16V0635B         3           NON TREATED SW TC           Q1P16V0659         3           UNIT 1 SW SUPPLY TC           Q1P16V0660         3	C C D PUM C D PUM	NIT 1 2 P SEALS / 2	CK AND MOTO CK	S DR COOL S	A	(F-6) D-170113 (E-2) D-170113	С	O/C	NA	ETO ETC	RF RF	ROJ-V-29
Q1P16V0635A         3           NON TREATED SW TO         Q1P16V0635B         3           NON TREATED SW TO         Q1P16V0659         3           UNIT 1 SW SUPPLY TO         Q1P16V0660         3           UNIT 1 SW SUPPLY TO         Q1P16V0660         3	C D PUM C D PUM	2 P SEALS / 2	AND MOTO CK	OR COOL S	ERS	(E-2) D-170113				ETC	RF	ROJ-V-29
NON TREATED SW TC           Q1P16V0635B         3           NON TREATED SW TC           Q1P16V0659         3           UNIT 1 SW SUPPLY TC           Q1P16V0660         3           UNIT 1 SW SUPPLY TC	D PUM C	SEALS / 2	AND MOTO CK	OR COOL S	ERS	(E-2) D-170113				ETC	RF	ROJ-V-29
Q1P16V0635B         3           NON TREATED SW TO         Q1P16V0659         3           UNIT 1 SW SUPPLY TO         3           UNIT 1 SW SUPPLY TO         3	C ) PUM	2	СК	S			c	0/C			. <u> </u>	·····
NON TREATED SW TC           Q1P16V0659         3           UNIT 1 SW SUPPLY TC           Q1P16V0660         3           UNIT 1 SW SUPPLY TC	) PUM				Α		C	O/C	NIA.			
Q1P16V0659         3           UNIT 1 SW SUPPLY TO         3           UNIT 1 SW SUPPLY TO         3		SEALS /	AND MOTO			(		0,0	NA	ETO ETC	RF RF	ROJ-V-29 ROJ-V-29
UNIT 1 SW SUPPLY TO           Q1P16V0660         3           UNIT 1 SW SUPPLY TO	~				ERS							
Q1P16V0660 3 UNIT 1 SW SUPPLY TO	-	6	СК	S	Α	D-170119/3 (C-3)	0	O/C	NA	ETPO ETO		
UNIT 1 SW SUPPLY TO	DDG 2	<u> </u>								ETC	RF	ROJ-V-31
·	-	6	СК	S	Α	D-170119/3 (C-8)	0	O/C	NA	ETPO ETO	ARFD Q	-
Q1P16V0661 3	DDG 1	<u>C</u>			····					ETC	RF	ROJ-V-31
	С	8	СК	S	Α	D-170119/3 (C-10)	0	O/C	NA	ETPO ETO	ARFD	
UNIT 1 SW SUPPLY TO	D DG 1	-2A								ETC	RF	RR-V-01
Q1P16V0679 3	С	8	VR	S	Α	D-170119/1 (B-10)	С	O/C	NA	ETO ETC	RF RF	
SW HEADER VACUUM	<b>BREA</b>	KER										
Q1P16V0680 3	С	8	VR	S	A	D-170119/1 (B-4)	С	O/C	NA	ETO ETC	RF RF	

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#### Unit 1

#### P16 - Service Water

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P16V0721A	3	В	2	GL	MO	A	D-170113 (H-6)	0	С	AJ	PIT STC	2Y Q	
SW TO CYCLONE	E SEPA	RATO	R TRAIN	A INLET									
Q1P16V0721B	3	B	2	GL	MO	A	D-170113 (H-7)	0	C	Ā	PIT STC	2Y Q	
SW TO CYCLONE	E SEPA	RATO	R TRAIN	<b>BINLET</b>			, ,						
QSP16V0507	3	В	60	В	MO	Ρ	D-170119 (G-8)	0	0	AI	PIT	2Y	
SW RECIRC LINE	DIVE	RT TO	STORAG	E POND V	ALVES								
QSP16V0508	3	В	60	В	MO	Р	D-170119 (G-8)	0	0	Al	PIT	2Y	
SW RECIRC LINE	DIVE	RT TO	STORAG	E POND V	ALVES								

### Unit 1

#### P17 - Component Cooling Water

							PID						
Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1P17HV2229	3	8	2	GL	AO	A	D-175002/2 (H-2)	0	С	С	PIT STC	2Y Q	
CCW SUPPLY TO	SAM	PLE CC	OLERS										
Q1P17HV3045	2	A	3	GL	AO	A	D-175002/2 (D-6)	0	С	C	PIT STC	2Y RF	ROJ-V-33
CCW RETURN FF	ROM R	CP TH	ERMAL E	BARRIER (	PEN 43)						LJ-C	Ы	
Q1P17HV3067	2	A	6	GL	AO	Α	D-175002/2 (E-6)	0	С	С	PIT STC LU-C	2Y RF LJ	ROJ-V-36
CCW RETURN FF				·····									
Q1P17HV3095	2	A	6	GL	AO	Α	D-175002/2 (E-1)	0	С	С	PIT STC LJ-C	2Y RF LJ	ROJ-V-36
CCW SUPPLY TO													······
Q1P17HV3096A	3	В	8	В	AO	A	D-175002/2 (G-12)	0	С	С	PIT STC	2Y Q	
CCW TO RECYCL RECOMBINER	E SYS	S, WAS	STE GAS	SYS, HYDI	ROGEN								
Q1P17HV3096B	3	В	8	В	AO	A	D-175002/2 (F-7)	0	С	C	PIT STC	2Y Q	
CCW TO RECYCL RECOMBINER	E SYS	S, WAS	TE GAS	SYS, HYDI	ROGEN		•						
Q1P17HV3184	2	Α	3	GL	AO	Α	D-175002/2 (D-6)	0	С	С	PIT STC	2Y RF	ROJ-V-33
CCW RETURN FF	ROM P	CP TH	ERMAL E	BARRIER (	PEN 43)						LJ-C	L	
Q1P17HV3443	2	A	6	GL	AO	A	D-175002/2 (E-5)	0	С	С	PIT STC	2Y RF	ROJ-V-36
CCW RETURN FF	ROME	XCESS	S LETDO	WN HEAT	EXCHAN	GER					LJ-C	LJ	
Q1P17RV3028	3	В	2	GL	AO	A	D-175002/1 (A-2)	0	С	С	PIT STC	2Y Q	
CCW SURGE TAN	NK VE	NT			+								

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P17	-	Component Cool	ling	Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P17V0001A	3	С	18	СК	S	A	D-175002/1 (C-3)	0/C	O/C	NA	ETO ETC	QQ	
CCW PUMP DISC	CHARG	E CHE	CK VALV	ES									
Q1P17V0001B	3	С	18	CK	S	Α	D-175002/1 (E-3)	O/C	O/C	NA	ETO ETC	Q	
CCW PUMP DISC	CHARG	E CHE	CK VALV	ES									
Q1P17V0001C	3	С	18	CK	S	A	D-175002/1 (G-3)	Ō/C	O/C	NA	ETO ETC	Q Q	
CCW PUMP DISC	CHARG	E CHE		ES									
Q1P17V0006A (PSV3040A)	3	C	3/4 X 1	SR	S	A	D-175002/1 (C-4)	С	O/C	NA	ETSP	Т	
CCW HX RELIEF													
Q1P17V0006B (PSV3040B) CCW HX RELIEF	3 VAI VI	С =	3/4 X 1	SR	S	A	D-175002/1 (E-4)	С	O/C	NA	ETSP	Т	
Q1P17V0006C (PSV3040C) CCW HX RELIEF	3	С	3/4 X 1	SR	S	Α	D-175002/1 (G-4)	С	O/C	NA	ETSP	т	
Q1P17V0011A (MOV3094A)	3	B	10	B	MO	Р	D-175002/1 (D-8)	0	0	Ai	PIT	2Y	
CCW INLET TO S						<u> </u>							
Q1P17V0011B (MOV3094B)	3	В	10	В	MO	Р	D-175002/1 (G-8)	0	0	Al	PIT	2Y	
CCW INLET TO S													
Q1P17V0029A (MOV3185A) CCW TO RHR HX	з к	В	14	В	MO	A	D-175002/1 (F-10)	O/C	0	AI	STO PIT	Q 2Y	
<b>Q1P17V0029B</b> (MOV3185B) CCW TO RHR HX	3	В	14	B	MO	A	D-175002/1 (C-10)	O/C	0	AI	PIT STO	2Y Q	

#### Unit 1 Ρ ər

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#### Unit 1

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P17 - Component Cooling Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P17V0082 (MOV3052)	2	<b>A</b>	6	GA	MO	A	D-175002/2 (C-1)	0	С	AI	PIT STC	2Y RF	ROJ-V-33
CCW TO RCP (P				····· –							<u> </u>	IJ	
Q1P17V0083	2	AC	6	СК	S	Α	D-175002/2 (C-2)	0	С	NA	ETC LJ-C	RF LJ	ROJ-V-34
CCW TO RCP (P	'EN 42)										BDTO	Normal O	ps
Q1P17V0087A	3	с_	2	СК	S	Α	D-175002/2 (B-3)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-35 ps
CCW INLET TO	RCP TH	ERMA	L BARRIE	R CHECK	VALVE								
Q1P17V0087B	3	С	2	СК	S	Α	D-175002/2 (C-3)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-35 ps
CCW INLET TO	RCP TH						<u>.                                    </u>						
Q1P17V0087C	3	С	2	СК	S	Α	D-175002/2 (D-3)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-35 ps
CCW INLET TO	RCP TH	ERMA	L BARRIE	R CHECK									
Q1P17V0097 (MOV3046)	2	A	6	GA	MO	Α	D-175002/2 (B-5)	0	С	AI	PIT LJ-C	2Y LJ	
CCW RETURN F				·							STC	RF	ROJ-V-33
Q1P17V0099 (MOV3182) CCW RETURN F	2 2		6 ADINGS (		MO	Α	D-175002/2 (C-6)	0	С	AI	PIT STC LJ-C	2Y RF 니	ROJ-V-33
Q1P17V0111	3	C	14	CK	S	A	D-175002/1 (E-1)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-37 ps
CCW PUMP SUC	CTION C	HECK	VALVE										
Q1P17V0115 (PSV3029)	3	С	4 X 6	SR	S	Α	D-175002/1 (A-2)	С	O/C	NA	ETSP	Т	· · · · · · · · · · · · · · · · ·
CCW SURGE TA	NK REL	IEF V	ALVE										
Q1P17V0117A (MOV3031A) RMW TO CCW S	3 SYSTEM	В	2	GL	MO	Α	D-175002/1 (A-5)	С	O/C	AI	PIT STO STC	2Y Q Q	

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#### Unit 1

## P17 - Component Cooling Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P17V0117B	3	В	2	GL	MO	Α	D-175002/1	С	O/C	AI	PIT	2Y	
(MOV3031B)							(B-5)				STO STC	Q Q	
RMW TO CCW S													
Q1P17V0121A (MOV3030A)	3	В	2	GL	MO	Α	D-175002/1 (A-5)	O/C	С	AI	PIT STC	2Y Q	
DEMIN WATER N	AKEU	РТО	CCW SUR	GE TANK	LINE ISO		(1.0)					_	
Q1P17V0121B	3	В	2	GL	MO	A	D-175002/1	O/C	С	AI	PIT	2Y	
(MOV3030B)							(B-5)				STC	Q	
DEMIN WATER N VALVE	MAKEU	PTO										······	
Q1P17V0126A (PSV3354A)	3	С	1 1/2X2	SR	S	Α	D-175002/1 (E-11)	С	O/C	NA	ETSP	Т	
RHR HX RELIEF	VALVE						<b>、</b> ,						
Q1P17V0126B	3	С	1 1/2X2	SR	S	Α	D-175002/1	С	O/C	NA	ETSP	Т	·····
(PSV3354B) RHR HX RELIEF	V A I V/C						(B-11)						
Q1P17V0149A	3	C	1 X 1-1/2	SR	S	A	D-175002/1	C	O/C	NA	ETSP	т	
(PSV3381A)	0	Ŭ	1 / 1 //2	on	U	~	(F-11)	Ŭ	0,0			•	
RHR PUMP SEAL	. COOI	ER R	ELIEF										
Q1P17V0149B	3	С	I X 1-1/2	SR	S	Α	D-175002/1	С	O/C	NA	ETSP	Т	
(PSV3381B) RHR PUMP SEAL	COOI	EB B	ELIFE				(B-9)						
Q1P17V0153	2	AC	3/4 X 1	SR	S	A	D-175002/2	С	O/C	NA	ETSP	T	······································
(PSV3413)	<b>5</b> -	,		<u></u>	5		(E-2)	Ŷ	0,0		LU-C	ப்	
THERMAL RELIE	F VAL	/E ON	CTMT PE	N 45									
Q1P17V0154	2	AC	3/4 X 1	SR	S	A	D-175002/2	С	O/C	NA	ETSP	Т	
(PSV3414)		/F 01	OTUT PE				(F-6)				Ш-С	IJ	
THERMAL RELIE	r VAL	VE UN	CIMIPE	N 46		<u></u>							

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#### Unit 1

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P17 - Component Cooling Water

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Valve ID	CC	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P17V0155 (PSV3415)	2	AC	3/4 X 1	SR	S	A	D-175002/2 (B-6)	С	O/C	NA	ETSP LJ-C	T 	
THERMAL RELIE	VAL	VE ON	CTMT PE	N 44									
Q1P17V0158 (PSV3444)	2	AC	3/4 X 1	SR	S	A	D-175002/2 (C-2)	С	O/C	NA	ETSP LJ-C	т Ш	
THERMAL RELIE	VAL	VE ON	CTMT PE	N 42									
Q1P17V0159	2	AC	6	СК	S	A	D-175002/2 (E-2)	0	С	NA	ETC LJ-C	RF LJ	ROJ-V-34
CCW SUPPLY TO	EXCE	ESS LE	TDOWN	HX (PEN 4	15)						BDTO	Normal O	ps
Q1P17V0263A	3	С	1	СК	S	Α	D-175002/1 (A-2)	С	0	NA	ETSP	Т	
CCW SURGE TAN	IK VA	CUUM	RELIEF										
Q1P17V0263B	3	С	1	СК	S	A	D-175002/1 (A-2)	С	0	NA	ETSP	T	
CCW SURGE TAN	NK VA	CUUM	RELIEF										

								1 2 2					, Č,
					Josep	h M. I	Farley Nucle	ar Plai	nt IST	Progr	am		
							Unit	1					Page 61 of 7
							P18 - Ser	vice Ai	r				
Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1P18V0001	2	Α	2	GL	М	Р	D-175035/1 (G-7)	LC	c	NA	LJ-C	LJ	
SERVICE AIR TO (PEN 47)	) PENE	TRATIC	ON ROOM	MS AND C	ONTAINN	IENT	- ·						
Q1P18V0002	2	A	2	GL	М	P	D-175035/1 (G-7)	LC	С	NA	LJ-C	LJ	
SERVICE AIR TO (PEN 47)	PENE	TRATIC	ON ROOM	MS AND C	ONTAIN	IENT	· •						

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P19 - Instrument Air

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
N1P19PSV2228	Aug	С	3/4	SR	S	Α	D-175034/1 (C-8)	С	O/C	NA	ETSP	Т	
BACKUP N2 SUP	PLYTO	PRES	SS PORV	S									
N1P19V0135	Aug	С	3/4	CK	S	A	D-175034/1 (E-8)	C	С	NA	ETC	RF	
INST AIR SUPPL	Y TO P	ORVS											
N1P19V0147A	Aug	C	1/2	СК	S	Α	D-175033/2 (E-9)	O/C	С	NA	ETC	RF	
INST AIR SUPPL'	Y TO A	-	EAM VAL	VE Q1N12	V001A A	IR							
N1P19V0147B	Aug	С	1/2	СК	S	A	D-175033/2 (C-9)	O/C	С	NA	ETC	RF	
INST AIR SUPPL'	Y TO A	UX ST	EAM VAL	VE Q1N12	V001B A	IR					_		
Q1P19HV2228	2	A	3/4	GL	AO	A	D-175034/1 (C-9)	С	O/C	C	PIT STO	2Y Q	
BACKUP NITROO 97B)	GEN SU	IPPLY	TO PRES	SURIZER	PORV'S	(Pen	• •				STC LJ-C	а Ц	
Q1P19HV3611	2	Α	2	GL	AO	A	D-175034/2 (E-11)	0	С	С	PIT STC	2Y RF	ROJ-V-40
CTMT INSTRUM			PLY (PEN	48)			(_ · · )				LJ-C	LJ	
Q1P19V0002	2	AC	2	СК	S	Α	D-175034/3 (D-2)	0	С	NA	ETC LJ-C	RF LJ	ROJ-V-38
<b>CTMT INSTRUM</b>	ENT AIF	R SUPI	PLY (PEN	48)			· •				BDTO	Normal Op	S
Q1P19V0004	2	AC	1/2	СК	S	A	D-175034/1 (C-10)	O/C	O/C	NA	ETO ETC	CSD/RF RF	CSJ-V-20 ROJ-V-39
BACKUP AIR SUI	PPLY T	O PRE	SSURIZE	ER PORV'S	3		. ,				LJ-C	Ы	
Q1P19V1099	2	A	3/4	GL	М	Р	D-175034/1 (D-8)	LC	С	NA	LJ-C	LJ	
BACKUP NITRO	GEN SU	IPPLY	BYPASS	TO PORV	s		• - /						

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#### Unit 1

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P23 - Containment Cooling and Purge

Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
<b>Q1P23V0002A</b> ( <b>MOV3238)</b> CTMT LEAK RATI	2 E TESI		8 E	GL	MO	Р	D-175010/1 (G-2)	С	С	AI	LJ-C	ليا	
Q1P23V0002B (MOV3239) CTMT LEAK RATI	2 E TEST	A F VALV	8 E	GL	MO	Ρ	D-175010/1 (G-2)	С	С	AI	LJ-C	IJ	

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## Unit 1

R43 - Diesel Generator Air Start

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q1R43V0519	Aug	В	3/8	τw	SO	A	D-170806/1 (C-9)	С	0	AI	ETO	Q	<u>, , , , , , , , , , , , , , , , , , , </u>
1B DG AIR STAI	RT SOLE	ENOID											
Q1R43V0520	Aug	В	3/8	TW	SO	A	D-170806/1 (C-9)	С	0	Al	ETO	Q	
1B DG AIR STAI	RT SOLE	ENOID											
Q1R43V0532	Aug	С	3/4	CK	S	A	D-170806/1 (F-5)	O/C	С	NA	ETC BDTO	Q Normal Ops	3
<b>1B DG AIR REC</b>	EIVER A	AIR D	RYER CI	HECK VAL	VE								
Q1R43V0533	Aug		3/4	CK	S	A	D-170806/1 (F-9)	O/C	С	NA	ETC BDTO	Q Normal Ops	5
1B DG AIR REC			·····									·····	
Q1R43V0538	Aug	С	1/2	SR	S	A	D-170806/1 (E-4)	С	O/C	NA	ETSP	т	
1B DG AIR REC	EIVER T												
Q1R43V0539	Aug	С	1/2	SR	S	A	D-170806/1 (E-8)	С	O/C	NA	ETSP	т	
<b>1B DG AIR REC</b>	EIVER T	ANK B	PRESSL	JRE RELIE	F VALVE						_		
QSR43V0582	Aug	В	3/8	TW	SO	A	D-170806/2 (C-9)	C	0	Al	ETO	Q	
1-2A DG AIR ST	ART SO	LENOI	D										
QSR43V0583	Aug	B	3/8	TW	SO	A	D-170806/2 (C-9)	С	0	AI	ETO	Q	<u> </u>
1-2A DG AIR ST	ART SO	LENO	D										
QSR43V0595	Aug	С	1	CK	S	Α	D-170806/2 (F-5)	O/C	С	NA	ETC BDTO	Q Normal Ops	<u> </u>
1-2A DG AIR ST VALVE	ART CO	MPRE	SSOR A	DISCHARC	BE CHEC	к	· ·					·	
QSR43V0596	Aug	С	1	СК	S	A	D-170806/2 (F-9)	O/C	С	NA	ETC BDTO	Q Normal Ops	§

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## Unit 1

R43 - Diesel Generator Air Start

1-2A DG AIR START COMPRESSOR B DISCHARGE CHECK         VALVE         DSR43V0601       Aug       C       1/2       SR       S       A       D-170806/2       C       O/C       NA       ETSP       T         1-2A DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE       DSR43V0602       Aug       C       1/2       SR       S       A       D-170806/2       C       O/C       NA       ETSP       T         1-2A DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE       DSR43V0602       Aug       C       1/2       SR       S       A       D-170806/2       C       O/C       NA       ETSP       T         1-2A DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE       E-80								PID							
VALVE QSR43V0601 Aug C 1/2 SR S A D-170806/2 C 0/C NA ETSP T 1-2A DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE QSR43V0602 Aug C 1/2 SR S A D-170806/2 C 0/C NA ETSP T (E-8) 1-2A DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE QSR43V0610 Aug C 1/2 SR S A D-170807/2 C 0/C NA ETSP T (F-5) CD G AIR RECEIVER TANK B PRESSURE RELIEF VALVE QSR43V0611 Aug C 1/2 SR S A D-170807/2 C 0/C NA ETSP T (F-9) CD G AIR RECEIVER TANK A PRESSURE RELIEF VALVE QSR43V0612 Aug C 1/2 SR S A D-170807/1 C 0/C NA ETSP T (G-5) CD G AIR RECEIVER TANK A PRESSURE RELIEF VALVE QSR43V0613 Aug C 1/2 SR S A D-170807/1 C 0/C NA ETSP T (G-9) CD G AIR RECEIVER TANK A PRESSURE RELIEF VALVE QSR43V0613 Aug C 1/2 SR S A D-170807/1 C 0/C NA ETSP T (G-9) CD G AIR RECEIVER TANK A PRESSURE RELIEF VALVE QSR43V0638 Aug B 3/8 TW SO A D-170807/2 C 0 AI ETO Q CC-6) CD G AIR START SOLENOID QSR43V0639 Aug B 3/8 TW SO A D-170807/2 C 0 AI ETO Q CC-8)	Vaive ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks	
(E-4)         (E-6)         (E-6)         (E-6)         (E-6)         (E-6)         (E-6)         (C 0/C NA ETSP T (F-9)         (C 0/C NA ETSP T (F-9)         (C 0/C NA ETSP T (C-6)         (C 0/C NA ETSP T (C-5)         (C 0/C NA ETSP T (C-6)         (C 0/C NA ETSP T (C-6)         (C 0/C NA ETSP T (C-9)         (C 0/C NA ETSP T (C-9)         (C 0/C NA ETSP T (C-6)         (C 0/C NA ETSP T (C-6)	1-2A DG AIR ST VALVE	ART CO	MPRE	SSORB	DISCHARC	BE CHEC	K								
QSR43V0602         Aug         C         1/2         SR         S         A         D.170806/2 (E-8)         C         O/C         NA         ETSP         T           1-2A DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         Aug         C         1/2         SR         S         A         D.170807/2 (F-5)         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         C         I/2         SR         S         A         D.170807/2 (F-9)         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         C         I/2         SR         S         A         D.170807/1 (F-9)         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         C         I/2         SR         S         A         D.170807/1 (G-9)         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         I/2         SR         S         A         D.170807/1 (G-9)         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         I/2         SR         A         D.170807	QSR43V0601	Aug	С	1/2	SR	S	Α		С	O/C	NA	ETSP	Т		
(E-8)         (F-5)         C         (C         (C <td co<="" td=""><td>1-2A DG AIR RE</td><td>CEIVER</td><td>TANK</td><td>A PRES</td><td>SURE REL</td><td>IEF VALV</td><td>Έ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td>1-2A DG AIR RE</td> <td>CEIVER</td> <td>TANK</td> <td>A PRES</td> <td>SURE REL</td> <td>IEF VALV</td> <td>Έ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1-2A DG AIR RE	CEIVER	TANK	A PRES	SURE REL	IEF VALV	Έ							
DSR43V0610         Aug         C         1/2         SR         S         A         D-170807/2         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         2C         0/C         NA         ETSP         T         (F-5)           2C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         2C         0/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         2C         0/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         2SR43V0612         Aug         C         1/2         SR         S         A         D-170807/1         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         2SR43V0613         Aug         C         1/2         SR         S         A         D-170807/1         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         2SR43V0638         Aug         B         3/8         TW         SO         A         D-170807/2         C         O         AI         ETO         Q           2C DG AIR START SOLENOID         2         2	QSR43V0602	Aug	С	1/2	SR	S	Α		С	O/C	NA	ETSP	Т		
(F-5)         (F-5)         CDG AIR RECEIVER TANK & PRESSURE RELIEF VALVE         QSR43V0611       Aug       C       1/2       SR       S       A       D-170807/2       C       O/C       NA       ETSP       T         QSR43V0611       Aug       C       1/2       SR       S       A       D-170807/2       C       O/C       NA       ETSP       T         QSR43V0612       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         QSR43V0612       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         CDG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         QSR43V0638       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         QSR43V0639       Aug </td <td>1-2A DG AIR RE</td> <td>CEIVER</td> <td>TANK</td> <td><b>B PRES</b></td> <td>SURE REL</td> <td>IEF VALV</td> <td>Έ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1-2A DG AIR RE	CEIVER	TANK	<b>B PRES</b>	SURE REL	IEF VALV	Έ								
QSR43V0611         Aug         C         1/2         SR         S         A         D-170807/2 (F-9)         C         O/C         NA         ETSP         T           2C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         205843V0612         Aug         C         1/2         SR         S         A         D-170807/1 (G-5)         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         205843V0613         Aug         C         1/2         SR         S         A         D-170807/1 (G-9)         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         205843V0613         Aug         C         1/2         SR         S         A         D-170807/1 (G-9)         C         O/C         NA         ETSP         T           1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         205843V0638         Aug         B         3/8         TW         SO         A         D-170807/2 (C-6)         C         O         AI         ETO         Q           2C DG AIR START SOLENOID         205         20         A         D-170807/2 (C-8)         C         O         AI         ETO         Q           2C	QSR43V0610	Aug	С	1/2	SR	S	A		С	O/C	NA	ETSP	T		
(F-9)         (F-9)         (F-9)         (F-9)         (F-9)         (G-3)         (G-5)         10 DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         (G-5)         10 DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         (G-9)         10 DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         QSR43V0638       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         (C-6)         QSR43V0639       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         (C-8)       C       C       O       <	2C DG AIR REC	EIVER T	ANK B	PRESSL	JRE RELIE	F VALVE									
QSR43V0612       Aug       C       1/2       SR       S       A       D-170807/1 (G-5)       C       O/C       NA       ETSP       T         1C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE	QSR43V0611	Aug	С	1/2	SR	S	A		С	O/C	NA	ETSP	T		
(G-5)         1C DG AIR RECEIVER TANK B PRESSURE RELIEF VALVE         QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE       (G-9)	2C DG AIR REC	EIVER T	'ANK A	PRESSL	JRE RELIE	F VALVE									
QSR43V0613       Aug       C       1/2       SR       S       A       D-170807/1       C       O/C       NA       ETSP       T         1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE       (G-9)         QSR43V0638       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         2C DG AIR START SOLENOID       C       O       AI       ETO       Q         QSR43V0640       Aug       B       3/8       TW       SO       A       D-170807/1       C       O       AI       ETO       Q	QSR43V0612	Aug	С	1/2	SR	S	A		C	0/C	NA	ETSP	т		
(G-9)       (G-9)         1C DG AIR RECEIVER TANK A PRESSURE RELIEF VALVE         QSR43V0638       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         QSR43V0638       Aug       B       3/8       TW       SO       A       D-170807/2       C       O       AI       ETO       Q         2C DG AIR START SOLENOID	1C DG AIR REC	EIVER T	ANK B	PRESSL	JRE RELIE	F VALVE								_	
QSR43V0638         Aug         B         3/8         TW         SO         A         D-170807/2         C         O         AI         ETO         Q           2C DG AIR START SOLENOID         C-6)           QSR43V0639         Aug         B         3/8         TW         SO         A         D-170807/2         C         O         AI         ETO         Q           QSR43V0639         Aug         B         3/8         TW         SO         A         D-170807/2         C         O         AI         ETO         Q           2C DG AIR START SOLENOID         C-8)           2C DG AIR START SOLENOID         Q           QSR43V0640         Aug         B         3/8         TW         SO         A         D-170807/1         C         O         AI         ETO         Q           QSR43V0640         Aug         B         3/8         TW         SO         A         D-170807/1         C         O         AI         ETO         Q	QSR43V0613	Aug	С	1/2	SR	S	Α		С	O/C	NA	ETSP	Т		
(C-6) 2C DG AIR START SOLENOID QSR43V0639 Aug B 3/8 TW SO A D-170807/2 C O AI ETO Q (C-8) 2C DG AIR START SOLENOID QSR43V0640 Aug B 3/8 TW SO A D-170807/1 C O AI ETO Q (C-6)	1C DG AIR REC	EIVER T	'ANK A	PRESSU	JRE RELIE	F VALVE									
QSR43V0639         Aug         B         3/8         TW         SO         A         D-170807/2         C         O         Ai         ETO         Q           2C DG AIR START SOLENOID         QSR43V0640         Aug         B         3/8         TW         SO         A         D-170807/1         C         O         Ai         ETO         Q           QSR43V0640         Aug         B         3/8         TW         SO         A         D-170807/1         C         O         Ai         ETO         Q           QSR43V0640         Aug         B         3/8         TW         SO         A         D-170807/1         C         O         Ai         ETO         Q	QSR43V0638	Aug	В	3/8	TW	SO	Α		С	0	Al	ETO	Q		
(C-8) 2C DG AIR START SOLENOID QSR43V0640 Aug B 3/8 TW SO A D-170807/1 C O AI ETO Q (C-6)	2C DG AIR STAI	RT SOLE	ENOID												
QSR43V0640 Aug B 3/8 TW SO A D-170807/1 C O AI ETO Q (C-6)	QSR43V0639	Aug	В	3/8	TW	SO	A		С	0	AI	ETO	Q		
(C-6)	2C DG AIR STAI	RT SOLE	ENOID					·							
IC DG AIR START SOLENOID	QSR43V0640	Aug	В	3/8	TW	SO	Α		С	0	AI	ETO	Q	······	
	1C DG AIR STAI	RT SOLE	NOID												

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R43 - Diesel Generator Air Start

							PID						
Valve 1D	· CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
QSR43V0641	Aug	В	3/8	ΤW	SO	A	D-170807/1 (C-8)	С	0	AI	ETO	Q	
1C DG AIR STAF	IT SOLE	ENOID											
QSR43V0658	Aug	С	3/4	СК	S	Α	D-170807/2 (F-5)	O/C	С	NA	ETC BDTO	Q Normal Op	s
2C DG AIR RECE	EIVER B	AIR D	RYER CI	HECK VAL	VE								
QSR43V0659	Aug	С	3/4	СК	S	A	D-170807/2 (F-9)	O/C	С	NA	ETC BDTO	Q Normal Op	S
2C DG AIR RECE	IVER A	AIR D	RYER CI	HECK VAL	VE		. ,						
QSR43V0660	Aug	С	3/4	СК	S	A	D-170807/1 (G-5)	O/C	С	NA	ETC BDTO	Q Normal Op	S
1C DG AIR RECE	EIVER B	AIR D	RYER CI	HECK VAL	VE								
QSR43V0661	Aug	С	3/4	СК	S	A	D-170807/1 (G-9)	O/C	С	NA	ETC BDTO	Q Normal Op	S
1C DG AIR RECE	IVER A	AIR D	RYER CI	HECK VAL	VE								

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## Unit 1

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## V47 - Non-Radioactive Vent

Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
QSV47V0001A (HV3624)	Aug	В	14	В	AO	Α	D-205012 (F-5)	0	Ċ	С	STC PIT	Q 2Y	
CONTROL ROOM QSV47V0001B (HV3625) CONTROL ROOM	Aug	В	14	В	AO	A	D-205012 (G-5)	0	С	С	PIT STC	2Y Q	
QSV47V0002A (HV3622) COMPUTER ROC	Aug	В	20	В	AO	A	D-205012 (G-3)	0	С	С	STC PIT	Q 2Y	
QSV47V0002B (HV3623) COMPUTER ROC	Aug	В	20	В	AO	A	D-205012 (G-3)	0	С	С	PIT STC	2Y Q	
QSV47V0003A (HV3626) CONTROL ROOM	Aug	В	24	В	AO	A	D-205012 (F-5)	0	С	С	STC PIT	Q 2Y	
QSV47V0003B (HV3627) CONTROL ROOM	Aug	В	24	B	AO	A	D-205012 (G-5)	0	С	С	PIT STC	2Y Q	

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V48 - Spent Fuel Pool Vent & Filtration

Valve ID	CC	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q1V48V0001A (HV3538A) SPENT FUEL POI FILTER UNIT	Aug OL FIL	B	16 DN SYS T	B O PENETI	AO RATION	A RM	D-175022 (B-11)	0	O/C	С	PIT STO STC	2Y Q Q	
Q1V48V0001B (HV3538B) SPENT FUEL PO FILTER UNIT	Aug	B	16 DN SYS T	B O PENET	AO RATION	A RM	D-175022 (D-11)	0	O/C	C	STO STC PIT	Q Q 2Y	

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#### V49 - Cont. Room HVAC and Filtration

Valve ID	сс	Cat.	Size	Turna	Act	AP	PID (Coord)	NP	SP	FP	Test	Frea	RR/CSJ/ROJ Remarks
	_		Size	Туре	Act.	AP							
QSV49CKDMP001 A	Aug	С	11	СК	S	Α	D-175012 (B-2)	0	O/C	NA	ETO ETC	18M 18M	
HVAC PRESS LINE	BAC	KDRAF	T DAMP	ER (CKDN	1P001A-A	)							
QSV49CKDMP001 B	Aug	С	11	СК	S	Α	D-205012 ( <b>B</b> -7)	0	O/C	NA	ETC ETO	18M 18M	
HVAC PRESS LINE	BAC	KDRAF	T DAMP	ER (CKDM	P001B-B	)							
QSV49V0001A (MOV3478A)	Aug	В	8	В	MO	A	D-175012 (B-7)	C	0	Al	PIT STO	2Y Q	
CONTROL ROOM													
QSV49V0001B (MOV3478B)	Aug	В	8	B	MO	Α	D-205012 (B-3)	C	0	Al	PIT STO	2Y Q	
CONTROL ROOM							D.005040				017		
QSV49V0003A (HV3628)	Aug	B	10	8	AO	Α	D-205012 (B-10)	0	С	С	PIT STC	2Y Q	
CONTROL ROOM													
QSV49V0003B (HV3629)	Aug	В	10	B	AO	Α	D-205012 (C-10)	0	С	С	PIT STC	2Y Q	
CONTROL ROOM	·····			N VALVE									
QSV49V0004A (HV3649A)	Aug	В	20	В	AO	A	D-175012 (E-6)	С	С	С	PIT STC	2Y Q	
CONTROL ROOM	HVAC										<u> </u>		
QSV49V0004B (HV3649B)	Aug	В	20	B	AO	A	D-175012 (E-7)	С	С	С	STC PIT	Q 2Y	
CONTROL ROOM	HVAC												
QSV49V0004C (HV3649C)	Aug	В	20	В	ÂŎ	A	D-175012 (E-7)	С	Ċ	С	PIT STC	2Y Q	
CONTROL ROOM	HVAC												
QSV49V0008 (MOV2769A) CONTROL ROOM	Aug HVAC	В	8	В	MO	A	D-175012 (A-8)	С	0	AI	STO PIT	Q 2Y	

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Unit 1
V49 - Cont. Room HVAC and Filtration

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
QSV49V0009 (MOV2769B)	Aug	В	8	В	MO	A	D-205012 (A-3)	С	0	AI	PIT STO	2Y Q	

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Y52 - Diesel Generator Fuel Oil Transfer

							PID						
Valve iD	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
QSY52V0506A	Aug	С	1 1/2	СК	S	A	D-170060 (F-2)	O/C	O/C	NA	ETO ETC	18M 18M	
1-2A DG FUEL O VALVE	LTRA	NSFEF	r pump d	SCHARG	E CHECK	(	. ,						
QSY52V0506B	Aug	С	1 1/2	СК	S	A	D-170060 (F-3)	O/C	O/C	NA	ETO ETC	18M 18M	
1-2A DG FUEL OI VALVE	IL TRAI	NSFEF	r pump d	ISCHARG	E CHECK	(	. ,						
QSY52V0507A	Aug	С	1 1/2	СК	S	A	D-170060 (F-5)	O/C	O/C	NA	ETO ETC	18M 18M	
1C DG FUEL TRA	NSFE	R PUM	P DISCH	ARGE CHE		/E							
QSY52V0507B	Aug	С	1 1/2	СК	S	Α	D-170060 (F-4)	O/C	O/C	NA	ETO ETC	18M 18M	
1C DG FUEL TRA	NSFE	R PUM	P DISCH	ARGE CHE	CK VAL	/E							
QSY52V0508A	Aug	С	1 1/2	СК	S	Α	D-170060 (F-7)	O/C	O/C	NA	ETO ETC	18M 18M	
2B DG FUEL OIL	TRANS	SFER F	PUMP DIS	CHARGE	CHECK V	ALVE							
QSY52V0508B	Aug	С	1 1/2	ĊK	S	Α	D-170060 (F-6)	O/C	O/C	NA	ETO ETC	18M 18M	
2B DG FUEL OIL	TRANS	FER F	PUMP DIS	CHARGE	CHECK V	ALVE							
QSY52V0509A	Aug	С	1 1/2	СК	S	Α	D-170060 (F-10)	O/C	O/C	NA	ETO ETC	18M 18M	
1B DG FUEL OIL	TRANS	FER F	PUMP DIS	CHARGE	CHECK V	ALVE							
QSY52V0509B	Aug	С	1 1/2	СК	S	Α	D-170060 (F-9)	O/C	O/C	NA	ETO ETC	18M 18M	
B DG FUEL OIL	TRANS	FER F	PUMP DIS	CHARGE	CHECK V	ALVE							
QSY52V0510A	Aug	С	1 1/2	СК	S	A	D-170060 (F-13)	O/C	O/C	NA	ETO ETC	18M 18M	
2C DG FUEL OIL	TRANS	SFER F	PUMP DIS	CHARGE	CHECK V	ALVE							· · · · · · · · · · · · · · · · · · ·

Unit	1
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Y52 - Diesel Generator Fuel Oil Transfer

Valve ID	CC	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
QSY52V0510B	Aug	С	1 1/2	СК	S	A	D-170060	O/C	O/C	NA	ETO	18M	······································
							(F-11)				ETC	18M	
2C DG FUEL OIL	TRANS	SFER P	UMP DIS	CHARGE	CHECK \	/ALVE							

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#### Unit 2

## B13 - Reactor Coolant

							PID						
Valve iD	CC	Cat	. Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2B13SV2213A (HV001) REACTOR VESSE	2 =1 HE	B	1 I	GL	SO	A	D-205037/1 (E-7)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q2B13SV2213B (HV003) REACTOR VESSE	2	В	1	GL	SO	A	D-205037/1 (E-8)	С	O/C	С	PIT STO STC	2Y CSD/RF	CSJ-V-01 CSJ-V-01
Q2B13SV2214A (HV002) REACTOR VESSE	2 EL HE	B AD VE	1 ENT	GL	SO	A	D-205037/1 (E-7)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q2B13SV2214B (HV004) REACTOR VESSE	2 El He/	B AD VE	1 ENT	GL	SO	Α	D-205037/1 (E-8)	С	O/C	С	PIT STO STC		CSJ-V-01 CSJ-V-01
Q2B13V0027A (MOV8000A) PRESSURIZER P	1 ORV E	B	3 < VALVE	GA	MO	Α	D-205037/2 (D-2)	0	O/C	Al	STC PIT STO	Q 2Y Q	
Q2B13V0027B (MOV8000B) PRESSURIZER P	1 ORV E	B	3 < VALVE	GA	MO	A	D-205037/2 (E-2)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q2B13V0031A PRESSURIZER S		C Y	6X6	SR	S	A	D-205037/2 (D-5)	С	O/C	NA	ETSP	Т	
Q2B13V0031B PRESSURIZER S	1	С	6X6	SR	S	A	D-205037/2 (D-4)	C	O/C	NA	ETSP	т	
PRESSURIZER S	1	С	6X6	SR	S	A	D-205037/2 (D-3)	С	O/C	NA	ETSP	T	
Q2B13V0037 (HV8047) PRT N2 SUPPLY	2	A	1 (PEN 64A)	D	AO	A	D-205037/2 (B-10)	0	С	С	PIT STC LJ-C	2Y Q LJ	

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#### Unit 2

#### B13 - Reactor Coolant

_							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2B13V0038 (V8046)	2	AC	3	CK	S	A	D-205037/2 (B-10)	С	С	NA	ETC LJ-C BDTO	RF LJ Normal Op	ROJ-V-01
RMW TO PRT ISO						•	D. 005007/0						
Q2B13V0039 (HV8033)	2	Α	ł	D	AO	Α	D-205037/2 (B-11)	0	С	С	PIT LJ-C STC	2Y LJ Q	
PRT N2 SUPPLY (		54A)										-	
Q2B13V0040 (HV8028) RMW TO PRT ISC	2 VAL\	A /E (PEl	3 N 30)	D	AO	A	D-205037/2 (B-11)	С	С	С	PIT STC LJ-C	2Y Q W	
<b>Q2B13V0053</b> ( <b>PCV445A)</b> PRESSURIZER PC	1 DRV	В	3	GL	AO	Α	D-205037/2 (D-1)	С	O/C	С	PIT STO STC	2Y CSD/RF CSD/RF	
Q2B13V0054 (V8092)	2	AC	2	СК	S	Α	D-205037/2 (C-6)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-02 ROJ-V-02
CVCS CHARGING (PEN 59)	PUM	P RELI	EF VALVI	E DISCHA	RGE TO	PRT					LU-C	ليا	
Q2B13V0061 (PCV444B)	1	В	3	GL	AO	Α	D-205037/2 (E-1)	С	O/C	С	PIT STO STC	2Y CSD/RF CSD/RF	
PRESSURIZER PO				00							·····		
Q2B13V0110	2	AC	3/4X1	SR	S	A	D-205037/2 (B-11)	С	O/C	NA	ETSP LJ-C	ا لیا	
REACTOR MAKEL	JP WA	ATER S	YSTEM (	PEN #30)	RELIEF V	ALVE					····		

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#### Unit 2 E11 - LHSI/RHR

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PiD (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E11V0001A		A	12	GA	MO		D-205041	C	0/C	Al	PIT	2Y	
(MOV8701A)	•	~	16-	Q/1		~	(G-3)	Ŭ	0,0	, ,	STC		CSJ-V-02
2A RHR PUMP SI					E)		(0.0)				LTA	LA	
ZA MARTINI OWN O	501101	V LUO			0)						STO	CSD/RF	CSJ-V-02
											LJ-C	LJ	
Q2E11V0001B	1	A	12	GA	MO	Α	D-205041	C	O/C	AI	PIT	2Y	
(MOV8702A)							(E-3)				STO	CSD/RF	CSJ-V-02
2B RHR PUMP S			M BCS (H	IL) (PEN 1)	8)		( -)				STC	CSD/RF	CSJ-V-02
					-,						LTA	LA	
_	_										LU-C	LJ	
Q2E11V0009A	2	B	8	GA	MO	Α	D-205041	C	0	AI	PIT	2Y	
(MOV8706A)							(B-8)				STO	Q/CSD	CSJ-V-04
CHG PUMP SUC	TION F	ROM F	RHR HX A	۱.									
Q2E11V0009B	2	В	8	GA	MO	A	D-205041	С	0	Al	PIT	2Y	
(MOV8706B)				-			(C-8)				STO	Q/CSD	CSJ-V-04
CHG PUMP SUC	TION F	ROM F	RHR HX E	3			. ,						
Q2E11V0015A	2	С	3X4	SR	S	A	D-205041	С	O/C	NA	ETSP	T	
(V8708A)	-	-				••	(G-4)						
A RHR PUMP SU	CTION	RELIE	F				· - · · /						
Q2E11V0015B	2	C	3X4	SR	S	A	D-205041	С	O/C	NA	ETSP	T	
(V8708B)	-	Ŭ	07.1	<b>U</b>	-		(E-4)	-	0.0			-	
B RHR PUMP SU	CTION	RELIE	F				()						
Q2E11V0016A	1	A	12	GA	MO	A	D-205041	C	O/C	AI	PIT	2Y	·
(MOV8701B)	•			<b>U</b>			(G-1)	-	0.0		STO		CSJ-V-02
2A RHR PUMP S			MRCS /H	41.3			()				STC	- ·	CSJ-V-02
	001101			· <b>-</b> /							LTA	LA	
Q2E11V0016B	1	A	12	GA	MO	Α	D-205041	C	O/C	AI	PIT	2Y	
(MOV8702B)							(E·2)				STO	CSD/RF	CSJ-V-02
2B RHR PUMP S			M RCS (H	11)			. ,				STC		CSJ-V-02
				,							LTA	LA	

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## Unit 2

## E11 - LHSI/RHR

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E11V0021A	1	AC	6	СК	S	Α	D-205038/2 (E-1)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-05 ROJ-V-05
RHR PUMP LHSI											LTA	LA	
Q2E11V0021B	1	AC	6	CK	S	Α	D-205038/2 (F-1)	С	O/C	NA	ETO ETC LTA	RF RF LA	ROJ-V-05 ROJ-V-05
RHR PUMP LHSI													
Q2E11V0021C	1	AC	6	СК	S	Α	D-205038/2 (G-1)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-05 ROJ-V-05
RHR PUMP LHSI		··· · · · · · · · · · · · · · · · · ·									LTA	LA	
Q2E11V0023A (MOV8888A)	2	в	10	GA	MO	Α	D-205038/2 (G-3)	0	O/C	Al	PIT STO	2Y Q	
2B HRH HX TO F	ICS (CL	) ISO									STC	Q	
Q2E11V0023B (MOV8888B)	2	B	10	GA	MO	Α	D-205038/2 (F-3)	0	O/C	Al	PIT STO STC	2Y Q Q	
2A RHR HX TO F		·											
Q2E11V0024A (MOV8887A) RHR TO RCS X(	2 CONN	В	10	GA	MO	A	D-205038/2 (F-4)	0	O/C	Al	STO STC PIT	Q Q 2Y	
Q2E11V0024B (MOV8887B) RHR TO RCS X(	2	В	10	GA	MO	A	D-205038/2 (G-4)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q2E11V0025A	2	Α	14	GA	MO	Α	D-205038/2	С	O/C	Al	PIT	2Y	
(MOV8811A) 2A RHR PUMP S	UCTION	FRO	и стмт :	SUMP (PE	N 11)		(J-4)				STO STC LJ-C	а а Ц	
Q2E11V0025B (MOV8811B)	2	A	14	GA	MO	A	D-205038/2 (H-4)	С	O/C	Al	PIT STO	2Y Q	
2B RHR PUMP S	UCTION	FRO	M CTMT	SUMP (PE	N 10)						STC LJ-C	Q LJ	

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## Unit 2

## E11 - LHSI/RHR

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E11V0026A (MOV8812A)	2	A	14	GA	MO	Α	D-205038/2 (J-5)	С	O/C	AI	PIT STO	2Y Q	
2A RHR PUMP S	UCTIO	N FRO	M CTMT	SUMP (PE	N 11)						STC LJ-C	Q W	
Q2E11V0026B (MOV8812B)	2	A	14	GA	MO	A	D-205038/2 (H-5)	С	O/C	Ai	PIT STO	2Y Q	
2B RHR PUMP S	UCTIO	N FRO		SUMP (PE							LJ-C STC	ш Q	
Q2E11V0027A (MOV8809A)	2	B	14	GA	MO	Α	D-205038/2 (F-10)	0	O/C	Al	PIT STC	2Y Q	Note-1
2A RHR PUMP S	UCTIO	N FRO											
Q2E11V0027B (MOV8809B)	2	В	14	GA	MO	Α	D-205038/2 (G-10)	0	O/C	AI	PIT STC	2Y Q	Note-1
2B RHR PUMP S	UCTIO	N FRO	M RWST										
Q2E11V0028	2	С	14	СК	S	A	D-205038/2 (F-10)	С	O/C	NA	ETO ETC	Q RF	ROJ-V-06
RHR PUMP SUC	TION F	ROM R	WST										
Q2E11V0032A (HCV603A)	2	В	10	B	AO	Ρ	D-205041 (B-7)	0	0	0	PIT	2Y	
RHR HEAT EXCH	IANGE	R DISC	HARGE	VALVES	_								
Q2E11V0032B (HCV603B)	2	В	10	В	AO	Ρ	D-205041 (C-7)	0	0	0	PIT	2Y	
RHR HEAT EXCH	IANGE	R DISC	HARGE	VALVES									
Q2E11V0033A (HCV605A)	2	В	8	В	AO	Ρ	D-205041 (C-8)	0	0	0	PIT	2Y	
RHR HEAT EXCH	IANGE	R BYP/	ASS FLO	W CONTR	OL VALV	ΈS							
Q2E11V0033B (HCV605B)	2	В	8	В	AO	Р	D-205041 (D-8)	0	0	0	PIT	2Y	
RHR HEAT EXCH	IANGE	R BYP/	ASS FLO	W CONTR	OL VALV	'ES				<u> </u>			

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## Unit 2

#### E11 - LHSI/RHR

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E11V0037A (FCV602A)	2	B	3	GA	MO	A	D-205041 (D-5)	0	С	Al	PIT STC	2Y Q	
2A RHR PUMP M	INIFLC	W											
Q2E11V0037B (FCV602B)	2	B	3	GA	MO	Α	D-205041 (D-5)	0	С	Al	PIT STC	2Y Q	
2B RHR PUMP M	INIFLC	W											
Q2E11V0038A	2	С	10	СК	S	A	D-205041 (B-5)	С	O/C	NA	ETO ETC	Q	
2A RHR DISCHAR	RGE TO	D RCS											
Q2E11V0038B	2	С	10	СК	S	Α	D-205041 (C-5)	С	O/C	NA	ETO ETC	Q Q	
2B RHR DISCHAR	RGE TO	D RCS					<b>、</b>						
Q2E11V0039A	2	AC	.75X1	SR	S	A	D-205038/2 (G-3)	С	O/C	NA	ETSP LJ-C	T LJ	
2B RHR HX DISC	HARG	E RELI	EF (PEN	5 <del>9</del> )			. ,						
Q2E11V0039B	2	AC	.75X1	SR	S	Α	D-205038/2 (F-3)	С	O/C	NA	ETSP LJ-C	т Ш	
2A RHR HX DISC	HARG	E RELI	EF (PEN	59)			· ·						
Q2E11V0040	2	AC	.75X1	SR	S	A	D-205038/2 (F-3)	С	O/C	NA	ETSP LJ-C	T LJ	
RHR TO HL RELI	EF (PE	N 59)					· · ·						
Q2E11V0042A	2	AC	10	СК	S	Α	D-205038/2 (G-2)	С	O/C	NA	ETC ETO	RF CSD/RF	ROJ-V-03 ROJ-V-03
RHR PUMP DISC	TO SI	S INJE	CTION C	L			. ,				LTA	LT	
Q2E11V0042B	2	AC	10	СК	S	Α	D-205038/2 (E-2)	С	O/C	NA	ETC LTA	RF	ROJ-V-03
RHR PUMP DISC	TO SI	S INJE	CTION CI	L			、				ETO	CSD/RF	ROJ-V-03
Q2E11V0044	2	В	10	GA	MO	A	D-205038/2	С	O/C	AI	PIT	2Y	

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## Unit 2

## E11 - LHSI/RHR

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E11V0051A (V8998A) RCS LOOP LHSI CL	1	С	6	CK	S	A	D-205038/1 (C-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04
Q2E11V0051B (V8998B) RCS LOOP LHSI CL	1	С	6	СК	S	A	D-205038/1 (D-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04
Q2E11V0051C (V8998C) RCS LOOP LHSI CL	1	С	6	CK	S	A	D-205038/1 (D-2)	С	0	NA	ETO BDTC	RF RF	ROJ-V-04

#### Unit 2

## E12 - Reactor Cavity Cooling

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Valve ID	сс	Cat.	Size	Туре	Act.	AP	PiD (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
<b>Q2E12V0001A</b> ( <b>HV3999A)</b> 2A RX CAVITY C	Aug OOLIN(	B G DAM	36 PER	В	AO	A	D-205010/2 (B-10)	0	С	С	PIT STC	2Y CSD/RF	
<b>Q2E12V0001B</b> (HV3999B) 2B RX CAVITY C		B	36 PER	В	AO	A	D-205010/2 (B-10)	0	С	С	PIT STC	2Y CSD/RF	

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## Unit 2

## E13 - Containment Spray

							PID				_		
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E13V0002A	2	С	8	СК	S	A	D-205038/3	С	O/C	NA	ETPO	ARFD	
(V8822A)							(C-2)				ETO	RF	ROJ-V-07
2A CTMT SPRAY	PUMP	DISCH	IARGE								ETC	RF	ROJ-V-07
Q2E13V0002B	2	С	8	CK	S	Α	D-205038/3	С	O/C	NA	ETPO	ARFD	
(V8822B)							(F-2)				ETO	RF	ROJ-V-07
2B CTMT SPRAY	PUMP	DISCH	ARGE								ETC	RF	ROJ-V-07
Q2E13V0003A	2	A	12	GA	MO	A	D-205038/3	С	O/C	Al	PIT	2Y	
(MOV8826A)							(H-3)				STC	Q	
CTMT SPRAY PL	IMP 2A	SUCT	ION FRO	M CTMT S		N 94)	· ·				LJ-C	Ы	
					<u>`</u>						STO	Q	
Q2E13V0003B	2	Α	12	GA	MO	Α	D-205038/3	С	O/C	Al	PIT	2Y	
(MOV8826B)							(H-3)				STO	Q	
CTMT SPRAY PL	IMP 28	SUCT	ION FRO	M CTMT S	UMP (PE	N 93)					STC	Q	
									·		LJ-C	LJ	
Q2E13V0004A	2	Α	12	GA	MO	Α	D-205038/3	С	O/C	Al	PIT	2Y	
(MOV8827A)							(H-4)				STO	Q	
CTMT SPRAY PL	IMP 2A	SUCT	ION FRO	M CTMT S	UMP (PE	N94)					STC LJ-C	Q	
Q2E13V0004B	2	A	12	GA	MO		D-205038/3	С	O/C	Al	STO	<u>_</u>	
(MOV8827B)	٢	~	12	GA	WO	Α	D-205038/3 (H-4)	U	0/0	Ai	STC	Q Q	
CTMT SPRAY PU		SHOT					([1-4])				ы-С	Ц	-
UNIT SPRATEU		3001		MOTMES		IN 93)					PIT	2Y	
Q2E13V0005A	2	В	8	GA	MO	A	D-205038/3	С	O/C	Al	PIT	2Y	
(MOV8820A)		-	-				(B-5)	•	0,0	7.0	STC	Q	
CTMT SPRAY PU	IMP 2A	DISCH	IARGE				()				STO	Q	
Q2E13V0005B	2	B	8	GA	MO	A	D-205038/3	С	O/C	Al	PIT	2Y	
(MOV8820B)	-	-	-				(G-5)	Ŭ	0,0		STO	Q	
CTMT SPRAY PU	IMP 2B	DISCH	ARGE				(= 0)				STC	ã	
Q2E13V0012A	2	B	10	GA	MO	A	D-205038/3	0	O/C	AI	PIT	2Y	
(MOV8817A)	-	-		Q71		~	(E-10)	Ŭ	0,0		STC	Q	Note-1
CTMT SPRAY PU	MP 24	SUCT		MRWST			(~ (0)				0.0	~	
		0001		in IIII JI									

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#### Unit 2

#### E13 - Containment Spray

Valve ID	сс	Cat.	Size	Туре	Act.	AP	PiD (Coord)	NP	SP	FP	Test	Freg	RR/CSJ/ROJ Remarks
<b>Q2E13V0012B</b> (MOV8817B) CTMT SPRAY PL	2 IMP 28	B		GA	MO	A	D-205038/3 (G-10)	0	O/C	AI	STC PIT	Q 2Y	Note-1
Q2E13V0014 (V8816) CTMT SPRAY PL	2	С	12	CK	S	A	D-205038/3 (E-10)	С	O/C	N/A	ETPO ETO ETC	ARFD RF RF	ROJ-V-08 ROJ-V-08

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## Unit 2

#### E14 - Containment Isolation

		• •		_			PID					_	
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E14HV3657	2	A	1	GL	AÓ	Α	D-205010/2	0	С	c	PIT	2Y	
							(A-4)				STC	Q	
CTMT AIR SAMP	LE FRO	DM R-1	1/12 DIS(	CH TO CTI	MT (PEN	55)					C-لیا	IJ	
Q2E14HV3658	2	Α	1	GL	AO	A	D-205010/2	0	C	С	PIT	2Y	
							(B-4)				STC	Q	
CTMT AIR SAMP	LE TO	R-11/12	2 (PEN 54	4)			. ,				LJ-C	IJ	
Q2E14V0001	2	AC	1	CK	S	Α	D-205010/2	С	O/C	NA	ETO	Q	
							(A-2)				ETC	RF	ROJ-V-09
CTMT AIR SAMP	LE (PE	N 55)									M-C	LJ	
Q2E14V0002	2	A	1	GL	MO	Α	D-205010/2	0	C	Al	PIT	2Y	
(MOV3660)							(B-2)				STC	Q	
CTMT AIR SAMP	LE TO	R-11/12	2 (PEN 54	4)			ζ, j				LJ-C	LJ	
Q2E14V0003	2	A	1	GL	MO	Α	D-205010/2	0	С	Al	PIT	2Y	
(MOV3318A)							(B-2)				STC	Q	
CTMT DIFFEREN	ITIAL P	RESSL	JRE INST	RUMENT	ISOLATI	ON	( )				ы-с	IJ	
(PEN 70)													
Q2E14V0004	2	Α	1	GL	MO	Α	D-205010/2	0	С	Al	PIT	2Y	
(MOV3318B)							(C-2)				LJ-C	Ы	
CTMT DIFFEREN (PEN 70)	ITIAL P	RESSL	JRE INST	RUMENT	ISOLATI	ON					STC	Q	

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## Unit 2

## E15 - Penetration Room Filtration

		•			_		PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E15CKDMP002 A	Aug	С	14	СК	S	A	D-205022 (C-2)	С	O/C	С	ETC ETO	QQ	
PRF RECIRC FAN	2A CH	HECK D	DAMPER										
Q2E15CKDMP002 B	Aug	С	14	СК	S	A	D-205022 (C-8)	С	O/C	С	ETO ETC	Q Q	
PRF RECIRC FAN	2B Cł	HECK D	DAMPER				-						
Q2E15CKDMP003 A	Aug	С	12	CK	S	A	D-205022 (B-2)	С	O/C	С	ETO ETC	Q	
PRF EXHAUST FA	NAC	HECK	DAMPER										
Q2E15CKDMP003 B	•	С	12	СК	S	Α	D-205022 (D-8)	С	O/C	С	ETO ETC	Q	
PRF EXHAUST FA									· · · · ·				
<b>Q2E15V0001A</b> (MOV3361B) 2B PRF RECIRC F/	Aug	B	18	В	MQ	A	D-205022 (D-4)	С	0	AI	PIT STO	2Y Q	
Q2E15V0001B	Aug		<u>18</u>	В	MO		D-205022	C	0	AI	PIT	2Y	
(MOV3361A) 2A PRF RECIRC F	_			U	NIC	~	(D-5)	Ŭ	0		STO	Q	
Q2E15V0001C	Aug	B	18	В	MO	A	D-205022	С	0	Al	PIT	2Y	
(MOV3362B) 2B PRF SUCT DAM	•	D	10	В	IVIO	A	(D-5)	U	0	AI	STO	Q	
Q2E15V0001D	Aug	В	18	В	MO	Α	D-205022	С	0	Al	PIT	2Y	
(MOV3362A) 2A PRF SUCT DAN	•	D	10	U	NO	~	(D-6)	0	U		STO	Q	
Q2E15V0002A	Aug	В	14	В	AO	A	D-205022	С	0	0	STO	Q	
(HV3356A) 2A PRF RECIR FAI	_					~	(C-2)	U U	0	0	PIT	2Y	
Q2E15V0002B		B		 B	AO	•	D 005000	С					
<b>422 15700028</b> (H <b>V3356B)</b> 28 PRF RECIR FAI	-	_			AU	A	D-205022 (B-8)	U	0	0	PIT STO	2Y Q	

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Unit 2
E15 - Penetration Room Filtration

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Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E15V0003A (HV3357A)	Aug	B	12 .	В	AO	A	D-205022 (A-2)	С	0	0	STO PIT	Q 2Y	
2A PRF EXHAUS	T FAN	DISCH	ARGE DA	MPER									
Q2E15V0003B	Aug	B	12	B	AO	Α	D-205022	С	0	0	PIT	2Y	
(HV3357B)	-						(D-8)				STO	Q	
2B PRF EXHAUS	T FAN	DISCH	DAMPER	3									



#### Unit 2 E21 - HHSI/CVCS

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							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E21V0016A	2	В	3	GA	MO	A	D-205038/1	С	O/C	Al	PIT	2Y	
(MOV8803A)							(G-6)				STC	RF	ROJ-V-14
HHSI TO RCS (C	L) ISO	LATION	l								STO	RF	ROJ-V-14
Q2E21V0016B	2	В	3	GA	MO	Α	D-205038/1	С	O/C	Al	PIT	2Y	
(MOV8803B)							(G-6)				STO	RF	ROJ-V-14
HHSI TO RCS (C	L) ISO	ATION	I								STC	RF	ROJ-V-14
Q2E21V0026	2	С	8	СК	S	Α	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-10
							(E-11)				ETC	RF	ROJ-V-10
RWST TO CHG F	PUMP S	SUCT											
Q2E21V0032A	1	AC	12	CK	S	Α	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(D-2)				ETC	RF	ROJ-V-19
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)							LTA	LA	
Q2E21V0032B	1	AC	12	CK	S	Α	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(D-2)				ETC	RF	ROJ-V-19
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)							LTA	LA	
Q2E21V0032C	1	AC	12	CK	S	A	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(E-2)				ETC	RF	ROJ-V-19
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)							LTA	LA	
Q2E21V0037A	1	AC	12	CK	S	Α	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(D-3)				ETC	RF	ROJ-V-19
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)			•				LTA	LA	
Q2E21V0037B	1	AC	12	CK	S	A	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(D-6)				LTA	LA	
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)			·				ETC	RF	ROJ-V-19
Q2E21V0037C	1	AC	12	СК	S	A	D-205038/2	С	O/C	NA	ETO	RF	ROJ-V-19
							(D-8)				ETC	RF	ROJ-V-19
ACCUMULATOR	TANK	DISCH	TO RCS	(CL)							LTA	LA	
Q2E21V0049	2	Α	3/4	GL	AO	A	D-205038/2	С	С	С	PIT	2Y	
(HV8871)							(E-9)				STC	Q	
SIS ACCUMULAT	OR TE	ST TO	RWST (I	PEN 29)							LJ-C	L	

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# Unit 2

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## E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E21V0050	2	A	3/4	GL	AO	A	D-205038/2	С	С	С	STC	Q	
(HV8961)							(E-10)				M-C	LJ	
SIS ACCUMULAT	OR TE	ST TO	RWST (I	PEN 29)	_						PIT	2Y	
Q2E21V0052	2	AC	1	CK	S	Α	D-205038/2	С	С	N/A	ETC	RF	ROJ-V-11
							(D-9)				LJ-C	LJ	
SIS ACCUMULAT	OR FI	LL (PEN	N 49)								BDTO	RF	
Q2E21V0058	2	AC	1	CK	S	A	D-205038/2	С	С	NA	ETC	RF	· ROJ-V-11
							(A-10)				ы-с	IJ	
NITROGEN SUPP	LY TO	ACCU	MULATC	R TANKS	(PEN 63)		. ,				BDTO	RF	
Q2E21V0059	2	A	1	GL	AO	Α	D-205038/2	С	C	С	PIT	2Y	
(HV8880)							(A-10)				STC	Q	
NITROGEN SUPP	LY TO	ACCU	MULATC	R TANKS	(PEN 63)						Ш-С	Ы	
Q2E21V0062A	1	С	2	СК	S	Α	D-205038/1	С	0	NA	BDTC	RF	
							(E-3)		_		ETO	RF	ROJ-V-13
HHSI TO RCS(CL)	)						<b>、</b> ,						
Q2E21V0062B	1	С	2	СК	S	A	D-205038/1	С	0	NA	BDTC	RF	
							(E-3)				ETO	RF	ROJ-V-13
HHSI TO RCS(CL)	)												
Q2E21V0062C	1	С	2	СК	S	A	D-205038/1	C	0	NA	BDTC	RF	
							(F-3)				ETO	RF	ROJ-V-13
HHSI TO RCS(CL)	)												
Q2E21V0063	2	B	3	GA	MO	Α	D-205038/1	C	O/C	AI	PIT	2Y	· _ · · · · · · · · · · · · · ·
(MOV8885)							(B-6)				STC	RF	ROJ-V-14
CHG (HHSI) PUMI	PS DIS	SCH TO	RCS(CL	_)			. ,				STO	RF	ROJ-V-14
Q2E21V0066A	1	С	2	CK	S	Α	D-205038/1	С	0	NA	BDTC	RF	
							(A-4)		-		ETO	RF	ROJ-V-13
CHG (HHSI) PUM	PS DIS	SCH TO	RCS(CL	.)			. ,						
Q2E21V0066B	1	C	2	CK	S	Α	D-205038/1	C	0	NA	BDTC	RF	·
							(B-4)		-		ETO	RF	ROJ-V-13
CHG (HHSI) PUMI	PS DIS	SCH TO	RCS(CL	.)			. ,						

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# Unit 2

#### E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E21V0066C	1	С	2	СК	S	Α	D-205038/1	С	0	NA	BDTC	RF	
							(C-4)				ETO	RF	ROJ-V-13
CHG (HHSI) PUM	PS DIS	SCH TC	) RCS(CL										
Q2E21V0068	2	В	3	GA	MO	Α	D-205038/1	С	O/C	AI	PIT	2Y	
(MOV8886)							(H-6)				STO	RF	ROJ-V-14
CHG (HHSI) PUM	P DISC	CH TO	RCS(HL)								STC	RF	ROJ-V-14
Q2E21V0072	2	B	3	GA	MO	A	D-205038/1	С	O/C	AI	PIT	2Y	
(MOV8884)							(J-6)			•	STO	RF	ROJ-V-14
CHG (HHSI) PUM	P DISC	СНТО	RCS(HL)				. ,				STC	RF	ROJ-V-14
Q2E21V0076A	1	AC	6	CK	S	A	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-21
							(F-4)				ETC	RF	ROJ-V-21
RHR LHSI TO A F	ICS HL	-					、 <i>,</i>				LTA	LA	
Q2E21V0076B	1	AC	6	СК	S	Α	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-21
							(G-4)				ETC	RF	ROJ-V-21
RHR LHSI TO B F	ICS HL	-									LTA	LA	
Q2E21V0077A	1	AC	6	CK	S	A	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-18
							(F-2)				LTA	LA	
HHSI/LHSI AND F	HR TO	D RCS I	HL LOOP	1			• •				ETC	RF	ROJ-V-18
Q2E21V0077B	1	AC	6	CK	S	Α	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-18
							(G-2)				ETC	RF	ROJ-V-18
HHSI/LHSI AND F	HR TO	D RCS I	HL LOOP	2							LTA	LA	
Q2E21V0077C	1	AC	6	CK	S	Α	D-205038/1	С	O/C	NA	ETO	RF	ROJ-V-18
							(G-2)		2.2		ETC	RF	ROJ-V-18
HHSI/LHSI AND F	HR TO	RCSI	HL LOOP	3			. ,				LTA	LA	
Q2E21V0078A	1	С	2	CK	S	Α	D-205038/1	С	0	NA	BDTC	RF	
					-		(G-3)	-	~		ETO	RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL			. /						
Q2E21V0078B	1	C	2	CK	S	Α	D-205038/1	С	0	NA	BDTC	RF	
							(G-3)		-		ETO	RF	ROJ-V-13
HSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL			. ,						

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	Unit 2
E21 -	HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E21V0078C	1	С	2	СК	S	A	D-205038/1 (G-3)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL			. ,						
Q2E21V0079A	1	С	2	СК	S	Α	D-205038/1 (G-3)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL									
Q2E21V0079B	1	С	2	СК	S	Α	D-205038/1 (G-2)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS	CHAR	GE TO	RCS LO	OPS HL									
Q2E21V0079C	1	С	2	СК	S	A	D-205038/1 (G-2)	С	0	NA	BDTC ETO	RF RF	ROJ-V-13
HHSI PUMPS DIS													
Q2E21V0091 (HV8860)	2	Α	1	GL	AO	A	D-205038/2 (D-10)	С	С	С	PIT LU-C	2Y LJ	
SIS ACCUMULAT											STC	Q	
Q2E21V0115A	2	AC	2	СК	S	A	D-205039/1 (G-2)	0	O/C	NA	ETC LJ-C ETO	RF LT	ROJ-V-15
CVCS SEAL INJE				,						<b>.</b>		<u>Q</u>	
Q2E21V0115B CVCS SEAL INJE	2 CTION		2 C PLIMP (	CK	S	A	D-205039/1 (G-2)	0	O/C	NA	ETO ETC LJ-C	Q RF LT	ROJ-V-15
Q2E21V0115C	2	AC	2	CK	S	A	D-205039/1	0	O/C	NA	ETO	Q	
CVCS SEAL INJE	CTION	TOR	C PUMP (	(PEN 26)			(G-2)				ETC LJ-C	RF LT	ROJ-V-15
Q2E21V0119	2	AC	3	СК	S	A	D-205039/1 (B-11)	0	O/C	NA	ETO ETC	Q RF	ROJ-V-12
CVCS CHARGING (PEN 24)	G PUM	P DISC	HARGE	TO REGEN	IERATIV	EHX					Ш-С	LJ	
Q2E21V0121A	2	С	2	СК	S	Α	D-205039/6 (C-6)	O/C	O/C	NA	ETPO ETC	ARFD Q	<b>DO</b> 1 V 20
2A CHG PUMP M	IN FLO	W LIN	E CHECK	VALVE			<u>_</u> i i				ETO	RF	ROJ-V-23

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## Unit 2

#### E21 - HHSI/CVCS

PID AP (Coord)

NP SP FP Freq **RR/CSJ/ROJ Remarks** Test 0/C 0/C NA FTPO ABED

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				• •								•	
Q2E21V0121B	2	С	2	СК	S	Α	D-205039/6 (E-6)	O/C	O/C	NA	ETPO ETC	ARFD Q	
2B CHG PUMP M	IN FLO		E CHECK	VALVE			(1-0)				ETO	RF	ROJ-V-23
Q2E21V0121C	2	С	2	СК	S	A	D-205039/6 (G-6)	O/C	O/C	NA	ETPO ETC	ARFD	
2C CHG PUMP M	IIN FLO	W LINI	E CHECK	VALVE							ETO	RF	ROJ-V-23
Q2E21V0122A	2	С	3	СК	S	Α	D-205039/6 (C-6)	O/C	O/C	NA	ETC ETO	Q RF	ROJ-V-16
2A CHARGING PI	UMP D	ISCHAI	RGE										
Q2E21V0122B	2	С	3	СК	S	A	D-205039/6 (E-4)	O/C	O/C	NA	ETC ETO	Q RF	ROJ-V-16
2B CHARGING PI													
Q2E21V0122C	2	С	3	СК	S	A	D-205039/6 (G-5)	O/C	O/C	NA	ETC ETO	Q RF	ROJ-V-16
2C CHARGING P	UMP D	ISCHA	RGE										
Q2E21V0210	2	C	2	CK	S	Α	D-205039/6 (G-10)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-07
CVCS BA FILTER	TO CH	IARGIN	IG PUMP	SUCTION	1								
Q2E21V0213	2	AC	3/4	CK	S	Α	D-205039/1 (D-11)	С	O/C	NA	ETO ETC	RF RF	ROJ-V-20 ROJ-V-20
RCP SEAL TO SE	EAL WA	TER H	X (PEN 2	8)							မ-C	Ш	
Q2E21V0220A	3	С	2	СК	S	Α	D-205039/3 (F-5)	С	O/C	NA	ETC ETO	Q CSD/RF	CSJ-V-10
BORON TRANSF	ER PUI	MP DIS	CHARGE	LINE CHE	ECK VAL	VE							
Q2E21V0220B	3	С	2	CK	S	Α	D-205039/3 (H-5)	С	O/C	NA	ETC ETO	Q CSD/RF	CSJ-V-10
BORON TRANSF	ER PU	MP DIS	CHARGE	LINE CHE	ECK VAL	VE	-						
Q2E21V0249A (MOV8112)	2	A	3	GA	MO	Α	D-205039/1 (C-11)	0	С	AI	PIT STC	2Y RF	ROJ-V-17
RCP SEAL WATE	RRET	URN (F	'EN 28)								LU-C	U	

CC Cat.

Size

Туре

Act.

Valve ID

#### Unit 2 E21 - HHSI/CVCS

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							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E21V0249B (MOV8100)	2	A	3	GA	MO	A	D-205039/1 (C-11)	0	С	Al	PIT STC LJ-C	2Y RF LJ	ROJ-V-17
RCP SEAL WATE													
Q2E21V0251	2	С	2X3	SR	S	Α	D-205039/1 (C-10)	С	O/C	NA	ETSP	Т	
RCP SEAL WATE	R RET	URN L	INE RELI	EF VALVE									
Q2E21V0253A (HV8149A)	2	A	2	GL	AO	A	D-205039/1 (A-7)	O/C	С	С	PIT STC		CSJ-V-06
LETDOWN ORIFI		•									LJ-C	LJ	
Q2E21V0253B (HV8149B) LETDOWN ORIFI	2 CE ISC	A ) (PEN	2 23)	GL	AO	A	D-205039/1 (A-7)	O/C	С	С	STC LJ-C PIT	CSD/RF LJ 2Y	CSJ-V-06
Q2E21V0253C (HV8149C) LETDOWN ORIFI	2		2	GL	AO	A	D-205039/1 (A-6)	O/C	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-06
Q2E21V0254	2		3	GL	AO	A	D-205039/1	0	С	С	PIT	2Y	,
(HV8152) LETDOWN LINE				űL		~	(A-11)	Ŭ	U	Ū	STC LJ-C		CSJ-V-08
Q2E21V0255	2	AC	2X3	SR	S	A	D-205039/1 (A-7)	С	O/C	NA	ETSP LJ-C	T LJ	
LETDOWN ORIFI	CES O	ULET F	RELIEF V	ALVE (PEI	N 23)								
Q2E21V0257 (MOV8107)	2	A	3	GA	MO	A	D-205039/6 (B-2)	0	С	Al	STC LJ-C	Ы	CSJ-V-08
CVCS CHG PUMP	P DISC	H TO F	REGENER	RATIVE HX	(PEN 24	)					PIT	2Y	
Q2E21V0258 (MOV8108)	2	A	3	GA	MO	A	D-205039/6 (B-2)	0	С	AI	PIT STC		CSJ-V-08
CVCS CHG PUM		<u> </u>	REGENER		(PEN 24	)					LU-C	LJ	
Q2E21V0259A (MOV8109A) CHARGING PUMI	2	B	2	GL	MO	A	D-205039/6 (B-5)	0	O/C	AI	PIT STO STC	2Y Q Q	

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# Unit 2

## E21 - HHSI/CVCS

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E21V0259B (MOV8109B)	2	В	2	GL	MO	A	D-205039/6 (D-6)	0	O/C	AI	PIT STO	2Y Q	······································
CHARGING PUN	IP MINI	FLOW	LINE ISC	VALVE			•				STC	Q	
Q2E21V0259C	2	В	2	GL	MO	Α	D-205039/6	0	O/C	AI	PIT	2Y	
(MOV8109C)							(F-6)				STO	Q	
CHARGING PUN	IP MINI		LINE ISC	VALVE							STC	Q	
Q2E21V0263A	2	AC	3/4X1	SR	S	Α	D-205039/6	Ċ	O/C	NA	ETSP	Т	
							(C-9)				LJ-C	LJ.	
0.75 IN RELIEF-S	SIS/RHF				(PEN 59	)							
Q2E21V0263B	2	AC	3/4X1	SR	S	Α	D-205039/6	С	O/C	NA	ETSP	Т	
							(C-9)				LJ-C	IJ	
0.75 IN RELIEF-S	SIS/RHF		O CHG PI			)							
Q2E21V0264	2	В	2	GL	MO	Α	D-205039/6	С	O/C	Al	PIT	2Y	
(MOV8104)							(G-10)				STO	Q	
EMERGENCY BO	DRATE	TO CH	IG PUMP								STC	Q	
Q2E21V0265	2	В	3	GL	MO	Α	D-205039/6	0	O/C	AI	PIT	2Y	
(MOV8106)							(G-10)				STO	CSD/RF	
CHARGING PUN	IP MINI	FLOW	COMMO	N LINE ISO	O VALVE						STC	CSD/RF	CSJ-V-11
Q2E21V0324A	2	B	8	GA	MO	Α	D-205039/6	0	O/C	AI	PIT	2Y	
(MOV8130A)							(D-8)				STC	Q	
CHG PUMP SUC	TION H	EADE	R ISOLAT	ION VALV	E						STO	Q	
Q2E21V0324B	2	В	8	GA	MO	A	D-205039/6	0	O/C	AI	PIT	2Y	
(MOV8130B)							(E-8)				STO	Q	
CHG PUMP SUC	TION H	EADE	R ISOLAT	ION VALV	E						STC	Q	
Q2E21V0325A	2	В	8	GA	MO	A	D-205039/6	0	O/C	Al	PIT	2Y	
(MOV8131A)							(F-8)				STC	Q	
CHG PUMP SUC	TION H	EADE	RISOLAT	ION VALV	E						STO	Q	
Q2E21V0325B	2	В	8	GA	MO	Α	D-205039/6	0	O/C	Al	PIT	2Y	
(MOV8131B)							(F-8)				STO	Q	
CHG PUMP SUC	TION H	EADE	R ISOLAT	ION VALV	E						STC	Q	

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#### E21 - HHSI/CVCS

PID Valve ID CC Cat. (Coord) Size Act. AP NP SP FP **RR/CSJ/ROJ Remarks** Type Test Frea Q2E21V0326A 2 В 4 GA MO Α D-205039/6 0 O/C AI PIT 2Y RF ROJ-V-22 (MOV8132A) STO (D-5) RF **ROJ-V-22** STC CHG PUMP DISCHARGE Q2E21V0326B 2 B 4 GA MO Ó STO RF **ROJ-V-22** Α D-205039/6 O/C AI (MOV8132B) STC RF ROJ-V-22 (D-5) PIT 2Y CHG PUMP DISCHARGE Q2E21V0327A 2 B 4 GA MO D-205039/6 0 O/C AI PIT 2Y Α RF (MOV8133A) (F-5) STO ROJ-V-22 STC ROJ-V-22 CHG PUMP DISCHARGE RF GA O2E21V0327B 2 B MO PIT 4 Α D-205039/6 0 O/C AI 2Y STO RF ROJ-V-22 (MOV8133B) (F-5) STC RF **ROJ-V-22** CHG PUMP DISCHARGE Q2E21V0336A 2 В 8 GA MO С O/C AI STC CSD/RF CSJ-V-09 Α D-205039/6 (LCV115B) PIT 2Y (D-9) CSD/RF CSJ-V-09 STO CHG PUMP SUCTION FROM RWST Q2E21V0336B В 2 8 GA MO Ĉ CSD/RF CSJ-V-09 Α D-205039/6 O/C AL STC (LCV115D) PIT 2Y (F-9) CSD/RF CSJ-V-09 STO CHG PUMP SUCTION FROM RWST Q2E21V0376A 2 B 4 GA MO D-205039/2 0 PIT Α С AI 2Y (LCV115C) (H-8) STC CSD/RF CSJ-V-09 VCT OUTLET ISO B Q2E21V0376B 2 GA 4 MO Α D-205039/2 0 С AL PIT 2Y (LCV115E) CSD/RF CSJ-V-09 (H-8) STC VCT OUTLET ISO Q2E21V0565A 2 В 3 GL AO Α D-205039/1 0 С С PIT 2Y (HV8175A) STC CSD/RF CSJ-V-08 (A-10) **CVCS LETDOWN LINE ISO** Q2E21V0565B B 3 GL AO 2 Α D-205039/1 0 С С STC CSD/RF CSJ-V-08 (HV8175B) (A-10) PIT 2Y

CVCS LETDOWN LINE PENE RM ISO

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E22 - Reactor Cavity Post-LOCA Dilution

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E22V0001A (MOV3872A)	Aug	В	10	GA	MO	A	D-205019 (D-5)	С	0	Al	PIT STO	2Y Q	
2A RX CAVITY H	2 DILUT	FION F	AN DAMI	PER									
Q2E22V0001B (MOV3782B)	Aug	В	10	GA	MO	A	D-205019 (E-5)	С	0	Al	PIT STO	2Y Q	
2B RX CAVITY H	2 DILU	TION F	AN DAMI	PER									

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Uni	t 2
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## E23 - Post Accident Ctmt Vent and Sample

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	<b>RR/CSJ/ROJ Remarks</b>
Q2E23V0002	2	Α	6	GL	MO	A	D-205019	LC	С	AI	STC	Q	
(MOV3740)							(C-10)				LU-C	ĿJ	
CTMT POST-LO	CA VEN	IT (PEN	N 103)								PIT	2Y	
Q2E23V0003	2	Α	6	GL	MO	Α	D-205019	LC	С	AI	PIT	2Y	
(MOV3530)							(C-9)				STC	Q	
CTMT POST-LO	CA VEN	IT (PEN	N 103)								LJ-C	Ы	
Q2E23V0022A	2	Α	3/4	GL	MO	Α	D-205019	LC	С	AI	PIT	2Y	
(MOV3528A)							(B-8)				STC	Q	
CTMT POST-LO	CA SAN	APLE (F	PEN 67)								M-C	ω	
Q2E23V0022B	2	Α	3/4	GL	MO	Α	D-205019	LC	С	AI	STC	Q	
(MOV3528B)							(C-9)				C-ليا	Ы	
CTMT POST-LO	CA SAN	APLE (F	PEN 67)								PIT	2Y	
Q2E23V0022C	2	Α	3/4	GL	MO	Α	D-205019	LC	С	Al	PIT	2Y	
(MOV3528C)							(D-8)				STC	Q	
CTMT POST-LO	CA SAN	APLE (F	PEN 61A)								LJ-C	Ы	
Q2E23V0022D	2	A	3/4	GL	MO	Α	D-205019	LC	С	AI	PIT	2Y	
(MOV3528D)							(D-9)				STC	Q	
CTMT POST-LO	CA SAN	APLE (F	PEN 61A)								LJ-C	ω	
Q2E23V0023A	2	Α	3/4	GL	MO	Α	D-205019	LC	С	AI	PIT	2Y	****
(MOV3739A)							(C-10)				STC	Q	
CTMT AIR SAMP	LE (PE	N 67)									မ-C	IJ	
Q2E23V0023B	2	Α	3/4	GL	MO	Α	D-205019	LC	С	AI	PIT	2Y	
(MOV3739B)							(D-10)				STC	Q	
CTMT AIR SAMP	LE (PE	N 61A)									LJ-C	LJ	
Q2E23V0024A	2	Α	3/4	GL	MO	A	D-205019	LC	С	AI	PIT	2Y	
(MOV3745A)							(G-10)				STC	Q	
CTMT AIR SAMP	LE RE	FURN (	PEN 66)								LJ-C	L	
Q2E23V0024B	2	Α	3/4	GL	MO	A	D-205019	LC	С	Al	STC	Q	
(MOV3745B)							(F-10)				Ы-С	LĴ	
CTMT AIR SAMP	LE REI	rurn (	<b>PEN 61B</b> )	)							PIT	2Y	



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Unit 2	
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E23 - Post Accident Ctmt Vent and Sample

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2E23V0025A (MOV3835A) CTMT POST-LOC	2		3/4	GL	МО	A	D-205019 (G-9)	LC	С	AI	PIT STC LU-C	2Y Q LJ	
Q2E23V0025B (MOV3835B) CTMT POST-LOC	2	A	3/4	GL	MO	A	D-205019 (F-9)	LC	С	AI	PIT STC LJ-C	2Y Q LJ	

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## Unit 2 G21 - Liquid Waste Disposal

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N2G21V0222	Aug	С	3/4X1	SR	S	Α	D-205004/1 (H-7)	С	O/C	NA	ETSP	Т	
CTMT SUMP PUN	<b>AP REI</b>	LIEF V	ALVE (PE	N 78)									
Q2G21HV3376	2	A	3	GL	AO	A	D-205004/1 (H-8)	0	С	С	PIT STC	2Y Q	
CTMT SUMP PU												<u>ل</u> با	
Q2G21HV3377 CTMT SUMP PU	2	A	3 05 (85N)	GL	AO	Α	D-205004/1 (H-8)	0	С	С	STC LU-C PIT	Q LJ 2Y	
~~~~~	2			<u>/8)</u> GL	AO		D.00500414	0	С	C	PIT	 2Y	
Q2G21HV3380 CTMT SUMP REC			2 N (PEN 33		AU	Α	D-205004/1 (G-8)	0	U	U	STC LU-C	Q Q	
Q2G21V0001 (HV7150)	2	Α ·	3/4	D	AO	A	D-205042/1 (B-5)	С	С	С	PIT STC	2Y Q	
RX COOLANT DF (PEN 62)	IAIN T	ANK VI	ENT TO V	VASTE GA	S SYSTE	M					LJ-C	LJ	
Q2G21V0005 (V7135)	2	A	3	D	М	Ρ	D-205042/1 (C-11)	LC	LC	N/A	LJ-C	LJ	
RCDT PUMP DIS	CH CC	NTRO	L VALVE	BYPASS (PEN 31)								
Q2G21V0006 (HV7136)	2	A	3	D	AO	A	D-205042/1 (C-10)	0	С	С	PIT STC LJ-C	2Y Q LJ	
RCDT PUMP DIS						····							
Q2G21V0064 (LCV1003)	2	Α	3	GL	AO	A	D-205042/1 (C-10)	0	С	С	PIT STC LJ-C	2Y Q	
RCDT PUMP DIS				<u> </u>				<u>. </u>				LJ	
Q2G21V0082 (HV7126)	2	Α	3/4	D	AO	Α	D-205042/1 (C-4)	0	С	С	PIT STC	2Y Q	
RCDT VENT TO	NAST		SYSTEM								<u> </u>	U	
Q2G21V0204	2	AC	2 3)	СК	S	Α	D-205004/1 (G-9)	O/C	O/C	N/A	ETO ETC LJ-C	RF RF LJ	ROJ-V-24 ROJ-V-24

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Unit	2
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Valve ID	CC	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2G21V0291	2	AC	3/4	СК	S	A	D-205004/1 (H-8)	С	O/C	N/A	ETO ETC	RF RF	ROJ-V-25 ROJ-V-25
CTMT SUMP PU	MP DIS	CHARC	GE								ш-с	Ы	
Q2G21V0950	2	AC	3/4X1	SR	S	A	D-205042 (C-9)	С	O/C	NA	ETSP LJ-C	T LJ	

Unit 2

G24 - Steam Generator Blowdown

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2G24V0003A (HV7614A) SG BLOWDOWN	2 11501 A		2 /ALVE	GL	AO	A	D-205071/1 (E-3)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0003B (HV7614B) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (G-3)	O/C	С	C	PIT STC	2Y Q	
Q2G24V0003C (HV7614C) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (H-3)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0005A (HV7697A) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0005B (HV7698A) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (D-4)	O/C	С	С	STC PIT	Q 2Y	
Q2G24V0005C (HV7699A) SG BLOWDOWN	2	В	2	GL	AO	Α	D-205071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0006A (HV7697B) SG BLOWDOWN	2	B	2	GL	AO	Α	D-205071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0006B (HV7698B) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	
Q2G24V0006C (HV7699B) SG BLOWDOWN	2	В	2	GL	AO	A	D-205071/1 (D-4)	O/C	С	С	PIT STC	2Y Q	

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Unit	2
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G31 - Spent Fuel Pool Cooling

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										5			
Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2G31V0012	2	A	2	D	М	Ρ	D-205043 (B-4)	LC	С	N/A	LJ-C	IJ	
SPENT FUEL PO	OL CLE	EAN-UF	TO REA	ACTOR CA	VITY (PE	N 95)	、 <i>,</i>						
Q2G31V0013	2	AC	2	СК	S	P	D-205043 (B-3)	С	С	N/A	W-C	LJ	
SPENT FUEL PO	OL CLE	EAN-UP	TO REA	ACTOR CA	VITY (PE	N 95)							

Unit 2

N11 - Main Steam

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N11PV3371A	2	B	6	GL	AO	A	D-205033 (E-6)	С	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LIN	e atm	OSPH	ERIC VEN	IT VALVE									
Q2N11PV3371B	2	В	6	GL	AO	Α	D-205033 (D-6)	С	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LIN	e atm	OSPHI	ERIC VEN	IT VALVE									
Q2N11PV3371C	2	B	6	GL	AO	Α	D-205033 (B-6)	С	O/C	С	STC STO	CSD/RF CSD/RF	
MAIN STEAM LIN	E ATM	IOSPHI	ERIC VEN	NT VALVE									
Q2N11V0001A (HV3369A) MAIN STEAM ISO	2 LATIC	BC N VAL	32 VE	СК	AO/S	A	D-205033/1 (G-7)	0	С	С	PIT BDTO STC	2Y Normal Ops CSD/RF	CSJ-V-12
Q2N11V0001B (HV3369B) MAIN STEAM ISO	2 LATIC		32 VE	CK	AO/S	A	D-205033/1 (E-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Ops	CSJ-V-12
Q2N11V0001C (HV3369C) MAIN STEAM ISO	2 LATIC		32 VE	СК	AO/S	A	D-205033/1 (B-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Ops	CSJ-V-12
Q2N11V0002A (HV3370A) MAIN STEAM ISO	2 LATIC	BC	32 VE	СК	AO/S	A	D-205033/1 (G-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op:	CSJ-V-12
Q2N11V0002B (HV3370B) MAIN STEAM ISO	2 LATIC		32 VE	CK	AO/S	A	D-205033/1 (E-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Ops	CSJ-V-12
Q2N11V0002C (HV3370C) MAIN STEAM ISO	2	BC	32	СК	AO/S	A	D-205033/1 (B-8)	0	С	С	PIT STC BDTO	2Y CSD/RF Normal Op:	CSJ-V-12
Q2N11V0003A (HV3368A) MAIN STEAM ISO	2	В	3	GA	AO	A	D-205033/1 (G-7)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13

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Unit 2

N11 - Main Steam

aive ID 	CC	Cat.	Size	Type									
011441/00000	2			Type	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
HV3368B)		B	3	GA	AO	A	D-205033/1 (E-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
AIN STEAM ISOL											- <u></u>		
2N11V0003C HV3368C)	2	В	3	GA	AO	Α	D-205033/1 (C-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
AIN STEAM ISOL	ATIO	N BYP	ASS										
2N11V0003D HV3976A)	2	В	3	GA	AO	Α	D-205033/1 (G-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
IAIN STEAM ISOL	ATIO	N BYP	ASS										
12N11V0003E H V3976B) MAIN STEAM ISOL	2	B	3	GA	AO	A	D-205033/1 (E-8)	С	С	С	PIT STC	2Y CSD/RF	CSJ-V-13
			3	GA	•••		0.005000/4	С		C	PIT	2Y	
2N11V0003F HV3976C)	2	B	-	GA	AO	Α	D-205033/1 (C-8)	U	С	U	STC		CSJ-V-13
MAIN STEAM ISOL													
2N11V0010A	2	С	6 X 10	SR	S	Α	D-205033/1 (G-3)	С	O/C	NA	ETSP	Т	
AIN STEAM SAF	ETY												
2N11V0010B	2	С	6 X 10	SR	S	A	D-205033/1 (G-4)	C	O/C	N/A	ETSP	Т	
AIN STEAM SAF	ETY												
2N11V0010C	2	С	6 X 10	SR	S	A	D-205033/1 (G-4)	С	O/C	N/A	ETSP	Т	
AIN STEAM SAF	ETY						·						
22N11V0010D	2	С	6 X 10	SR	S	Α	D-205033/1 (G-4)	С	O/C	N/A	ETSP	Т	
AIN STEAM SAF	ETY						. ,						
2N11V0010E	2	С	6 X 10	SR	S	A	D-205033/1 (G-5)	С	O/C	NA	ETSP	Т	
AIN STEAM SAF	ETY							·····					······································

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Unit 2

N11 - Main Steam

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N11V0011A	2	С	6 X 10	SR	S	Α	D-205033/1 (D-3)	С	O/C	NA	ETSP	T	
MAIN STEAM SA	FETY						(- <i>y</i>						
Q2N11V0011B	2	С	6 X 10	SR	S	Α	D-205033/1 (D-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY						• •						
Q2N11V0011C	2	С	6 X 10	SR	S	Α	D-205033/1 (D-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY						、 ,						
Q2N11V0011D	2	С	6 X 10	SR	S	A	D-205033/1 (D-4)	С	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY	_											
Q2N11V0011E	2	С	6 X 10	SR	S	Α	D-205033/1 (D-5)	С	O/C	NA	ETSP	Т	
MAIN STEAM SAI	FETY												
Q2N11V0012A	2	С	6 X 10	SR	S	Α	D-205033/1 (B-3)	C	O/C	NA	ETSP	Т	
MAIN STEAM SA	FETY												
Q2N11V0012B	2	С	6 X 10	SR	S	Α	D-205033/1 (B-4)	С	O/C	NA	ETSP	т	
MAIN STEAM SAI	FETY												
Q2N11V0012C	2	¢	6 X 10	SR	S	Α	D-205033/1 (B-4)	С	O/C	NA	ETSP	T	<u> </u>
MAIN STEAM SAI	FETY						. ,						
Q2N11V0012D	2	С	6 X 10	SR	S	Α	D-205033/1 (B-4)	С	O/C	NA	ETSP	Ť	
MAIN STEAM SAI	FETY						× 7						
Q2N11V0012E	2	С	6 X 10	SR	S	Α	D-205033/1 (B-5)	С	O/C	NA	ETSP	Т	
MAIN STEAM SAI	FETY						·						

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Unit 2

N12 - Auxiliary Steam

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N12HV3226	3	В	3	GL	AO	A	D-205033/2 (D-5)	С	0	0	STO PIT	Q 2Y	
MAIN STEAM TO T	TDAF\	W PUM	P										
Q2N12HV3234A	2	В	1	GL	AO	Α	D-205033/2 (G-8)	0	С	С	PIT STC	2Y Q	
MAIN STM LINE TO	O TDA	AFW PL	JMP WAF	RM-UP LIN	IE								
Q2N12HV3234B	2	В	1	GL	AO	Α	D-205033/2 (C-8)	0	С	С	STC PIT	Q 2Y	
MAIN STM LINE TO	O TDA	AFW PL	JMP WAF	RM-UP LIN	IE								
Q2N12MOV3406	3	₿	3	GL	MO	Р	D-205033/2 (D-4)	0	0	Al	PIT	2Y	
TDAFW TRIP THR	OTTL	E VLV											
Q2N12V0001A (HV3235A)	2	BC	3	SC	AO/S	Α	D-205033/2 (E-8)	С	O/C	0	PIT ETC	2Y Q	
MAIN STEAM TO		W PUM	P SHUTC	OFF VALV	E		()				ETO	Q	
Q2N12V0001B (HV3235B)	2	BC	3	SC	AO/S	A	D-205033/2 (D-8)	С	O/C	0	PIT ETC	2Y Q	
MAIN STEAM TO			P SHUTC			~~~~~					ETO	Q	
Q2N12V0010A	3	С	4	СК	S	A	D-205033/2 (E-6)	С	O/C	NA	ETPO ETO		
MAIN STEAM TO	rdaf\	W PUM	P TURBI	NE							ETC	RF	ROJ-V-26
Q2N12V0010B	3	С	4	СК	S	Α	D-205033/2 (C-6)	С	O/C	NA	ETPO ETO	ARFD Q	
MAIN STEAM TO 1	TDAF\	N PUM	P TURBI	NE			-				ETC	RF	ROJ-V-26

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Unit 2

N21/C22 - Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2C22FCV478	Aug	В	14	A	AO	A	D-205073 (G-5)	0	С	C	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER RE(GULAT	OR										
Q2C22FCV479	Aug	В	6	GA	AO	Α	D-205073 (F-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REG	GULAT	OR BYPA	SS			. ,						
Q2C22FCV488	Aug	B	14	A	AO	A	D-205073 (D-5)	0	C	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REG	GULAT	OR										
Q2C22FCV489	Aug	В	6	GA	AO	Α	D-205073 (D-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR BYPA	SS									
Q2C22FCV498	Aug	В	14	A	AO	A	D-205073 (B-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWAT	ER REC	GULAT	OR										
Q2C22FCV499	Aug	В	6	GA	AO	A	D-205073 (A-5)	0	С	С	PIT STC	2Y CSD/RF	
MAIN FEEDWATI	ER REC	GULAT	OR BYPA	SS									
Q2N21V0001A (MOV3232A) MAIN FEEDWATI	2 ER SUf	BC	14	SC	MO/S	A	D-205073 (G-7)	0	С	NA	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-14 ps
Q2N21V0001B (MOV3232B)	2	BC	14	SC	MO/S	A	D-205073 (E-7)	0	С	NA	PIT STC	2Y CSD/RF	CSJ-V-14
MAIN FEEDWAT	ER SUR	PLY					X * * X				BDTO	Normal Op	
Q2N21V0001C (MOV3232C) MAIN FEEDWATI	2 ER SUF	BC	14	SC	MO/S	A	D-205073 (B-7)	0	С	NA	PIT STC BDTO	2Y CSD/RF Normal Op	CSJ-V-14

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Unit 2

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N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N2N23V0001	Aug	С	3	СК	S	A	D-205007 (F-4)	С	0	NA	ETO	Q	
TDAFW PUMP MI	INI FLC	W CH	ECK VAL	VE			、						
N2N23V0005	Aug	C	3	CK	S	Α	D-205007 (C-6)	С	0	NA	ETO	Q	
MDAFW PUMP M	INI FLO	WC											
N2N23V0009	Aug	С	3	СК	S	Α	D-205007 (D-6)	С	0	NA	ETO	Q	
MDAFW PUMP M	INI FLO	WC											
N2N23V0013	Aug	С	6	CK	S	Α	D-205007 (F-2)	С	0	NA	ETO	Q	
AFW PUMPS TO	COND	ENSAT	E STOR	AGE TANK	ί.								
Q2N23HV3227A	3	8	3	GL	AO	A	D-205007 (B-8)	0	0	0	PIT STO	2Y Q	
MDAFW PUMP TO	O SG 2	A FCV											
Q2N23HV3227B	3	В	3	GL	AO	Α	D-205007 (D-8)	0	0	Ö	PIT STO	2Y Q	
MDAFW PUMP TO	O SG 2	B DISC	CHARGE	FCV									
Q2N23HV3227C	3	В	3	GL	AO	Α	D-205007 (G-8)	0	0	0	PIT STO	2Y Q	
MDAFW PUMP TO	O SG 2	C DIS	CHARGE	FCV									
Q2N23HV3228A	3	B	3	GL	AO	Α	D-205007 (C-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO) 2A S	G FCV											
Q2N23HV3228B	3	В	3	GL	AO	A	D-205007 (F-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO) SG 2	B FCV					- •						
Q2N23HV3228C	3	В	3	GL	AO	Α	D-205007 (H-8)	0	0	0	PIT STO	2Y Q	
TDAFW PUMP TO	D SG 2	C FCV											

Unit 2

N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N23V0002A	3	С	4	СК	S	Α	D-205007 (B-6)	С	0/C	NA	ETC ETO	Q CSD/RF	CSJ-V-15
MDAFW 2A DISC	HARG	E TO S	G				()						
Q2N23V0002B	3	С	4	СК	S	Α	D-205007 (E-6)	С	O/C	NA	ETC ETO	Q CSD/RF	CSJ-V-15
MDAFW 2B DISC	HARG	e to s	G										
Q2N23V0002C	3	С	4	СК	S	Α	D-205007 (B-9)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-15
MDAFW DISCHA	RGE T	O SG 2	2A										
Q2N23V0002D	3	С	4	СК	S	Α	D-205007 (C-9)	С	O/C	NA	ETC ETO		CSJ-V-16 CSJ-V-15
TDAFW DISCHAI			<u>A</u>										
Q2N23V0002E	3	С	4	СК	S	Α	D-205007 (D-9)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-15
MDAFW DISCHA	••••												
Q2N23V0002F	3	С	4	СК	S	Α	D-205007 (F-9)	С	O/C	NA	ETC ETO		CSJ-V-16 CSJ-V-15
TDAFW DISCHAI	RGE TO) SG 2	8										
Q2N23V0002G	3	С	4	СК	S	A	D-205007 (G-9)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-15
MDAFW DISCHA	RGE T	O SG 2	C										
Q2N23V0002H	3	С	4	СК	S	A	D-205007 (H-9)	С	O/C	NA	ETC ETO		CSJ-V-16 CSJ-V-15
TDAFW DISCHAI	RGE TO	D SG 2	С				- •						
Q2N23V0003	3	С	6	СК	S	Α	D-205007 (G-6)	С	0	NA	ETO BDTC	CSD/RF RF	CSJ-V-15
TDAFW DISCHAI	RGE TO	D SG											
Q2N23V0006	3	С	8	СК	S	Α	D-205007 (H-3)	С	O/C	NĂ	ETC ETO		CSJ-V-17 CSJ-V-15
TDAFW PUMP SI	UCTIO	N FRO	M CONDE	ENSATE S	TORAGE	TANK		<u> </u>					

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Unit 2

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N23 - Auxiliary Feedwater

							PID						
Valve ID	cc	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N23V0007A	3	С	6	СК	S	A	D-205007 (B-3)	С	O/C	NA	ETC ETO		CSJ-V-17 CSJ-V-15
MDAFW PUMP SI	UCTIO	N FRO	M COND	ENSATE S	STORAGE	TAN	<						
Q2N23V0007B	3	С	6	СК	S	Α	D-205007 (E-3)	С	O/C	NA	ETC ETO		CSJ-V-17 CSJ-V-15
MDAFW PUMP SI	UCTIO	N FRO	M COND	ENSATE S	STORAGE	TAN	(
Q2N23V0011A (MOV3350A) AUX FEEDWATE	2 B TO 9	C	4	СК	MO/S	A	D-205007 (B-10)	С	O/C	NA	ETO STC PIT	CSD/RF Q 2Y	CSJ-V-15
Q2N23V0011B (MOV3350B) AUX FEEDWATE	2	С	4	СК	MO/S	A	D-205007 (D-10)	С	O/C	NA	ETO STC PIT		CSJ-V-15
Q2N23V0011C (MOV3350C) AUX FEEDWATE	2 R TO 5	C 3G 2C	4	СК	MO/S	A	D-205007 (G-10)	С	O/C	NA	ETO STC PIT	CSD/RF Q 2Y	CSJ-V-15
Q2N23V0013A (MOV3210A) MDAFW PUMP SI	3 W INLE	B	6	GA	MO	A	D-205007 (A-3)	С	0	AI	PIT STO	2Y RF	ROJ-V-27
Q2N23V0013B (MOV3210B) MDAFW PUMP SI	3 W INLI	B	6	GA	MO	A	D-205007 (D-3)	С	0	AI	PIT STO	2Y RF	ROJ-V-27
Q2N23V0014A (MOV3209A) MDAFW PUMP SI	3 W INLE	B	8	GA	MO	A	D-205007 (A-2)	С	0	AI	PIT STO	2Y RF	ROJ-V-27
Q2N23V0014B (MOV3209B) MDAFW PUMP SI	3 W INLE	B	8	GA	MO	A	D-205007 (D-2)	С	0	AI	PIT STO	2Y RF	ROJ-V-27
Q2N23V0014C (MOV3216) TDAFW PUMP SV	3	В	8	GA	MO	A	D-205007 (G-3)	С	0	Al	PIT STO	2Y RF	ROJ-V-27

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Unit 2

N23 - Auxiliary Feedwater

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N23V0025A (MOV3764A)	3	В	4	GA	MO	A	D-205007 (B-7)	0	С	AI	PIT STC	2Y Q	
MDAFW PUMP TO	O SG 2	!A											
Q2N23V0025B (MOV3764B) MDAFW PUMP TO	3	B	4	GA	MO	A	D-205007 (D-7)	0	С	AI	PIT STC	2Y Q	
Q2N23V0025C (MOV3764C) MDAFW PUMP TO	3	B	4	GA	MO	A	D-205007 (F-7)	0	С	AI	PIT STC	2Y Q	
Q2N23V0025D (MOV3764D) MDAFW PUMP TO	3 O SG 2	B 28	4	GA	MO	A	D-205007 (D-7)	0	C	AI	PIT STC	2Y Q	
Q2N23V0025E (MOV3764E) MDAFW PUMP TO	3 O SG 2	B 2A	4	GA	MO	A	D-205007 (B-7)	0	С	Al	PIT STC	2Y Q	
Q2N23V0025F (MOV3764F) MDAFW PUMP TO	3 0 SG 2	B	4	GA	MO	A	D-205007 (G-7)	0	С	Al	PIT STC	2Y Q	
Q2N23V0081A (PSV2922A) 2A MDAFW PUMI	3	С	1.5X2	SR	S	A	D-205007 (B-4)	С	O/C	NA	ETSP	Т	
Q2N23V0081B (PSV2922B) 2B MDAFW PUMI	3	С	1.5X2	SR	S	A	D-205007 (D-4)	C	O/C	NA	ETSP	Т	
Q2N23V0081C (PSV2922C) TDAFW PUMP SU	3	С	1.5X2	SR	S	A	D-205007 (G-4)	С	O/C	NA	ETSP	T	

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Unit 2

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N25 - Chemical Injection

Valve ID	СС	Cat.	Size	Туре	Act.	АР	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2N25V0001A (HV3772A) CHEMICAL INJEC	2		1/2 EEDWA1	GL	AO	A	D-205000/1 (B-11)	O/C	С	С	PIT STC	2Y Q	
Q2N25V0001B (HV3772B)	2	В	1/2	GL	AO	A	D-205000/1 (D-11)	O/C	С	C	PIT STC	2Y Q	
CHEMICAL INJEC													······
Q2N25V0001C (HV3772C) CHEMICAL INJEC	2 TION I	B NTO F	1/2 EEDWA	GL	AO	A	D-205000/1 (F-11)	O/C	С	С	PIT STC	2Y Q	

Unit 2

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P1	11 - D	Demine	ralized I	Nater	 	
	PID					
	PID					

Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P11V0001 (HV3659) DEMIN WATER 1	2 O RPV	A	3 STORAC	GL GE STAND	AO (PEN 82	P)	D-205047 (H-10)	С	С	С	PIT STC LJ-C	2Y Q LJ	
Q2P11V0002 DEMIN WATER 1	2 0 BPV	AC	3 STORAG		S (PEN 82	P	D-205047 (G-10)	С	С	NA	W-C	ليا	

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Unit 2

P13 - Containment Purge

			<u>.</u>	_			PID (Coord)		6 0	6 0	T 4	F	DD/06 I/D0 1 Domostra
Valve ID	CC	Cat.	Size	Туре	Act.	<u>AP</u>	(Coord)	NP	SP_	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P13V0281 (HV3198D)	2	A	48	В	AO	Α	D-205010/2 (F-3)	С	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-18
PURGE SUPPLY	DAMP	ER (PE	N 12)										
Q2P13V0282 (HV3197)	2	A	48	В	AO	Α	D-205010/1 (G-10)	С	С	С	PIT STC		CSJ-V-18
PURGE SUPPLY	DAMP	er (pe	N 12)								LJ-C	LJ	
Q2P13V0283 (HV3196) CTMT PURGE E	2 XHAUS	A T (PEN	48 13)	В	AO	A	D-205010/1 (E-10)	С	C	С	PIT LJ-C STC	2Y LJ CSD/RF	CSJ-V-18
Q2P13V0284 (HV3198A) CTMT PURGE E	2	A	48	B	AO	A	D-205010/2 (D-3)	С	С	С	PIT STC LJ-C	2Y CSD/RF LJ	CSJ-V-18
Q2P13V0301 (HV2866C) CTMT MINI-PUF	2	A	8	В	AO	A	D-205010/2 (F-3)	0	С	С	PIT STC LJ-C	2Y Q LJ	
Q2P13V0302 (HV2866D) CTMT MINI-PUF	2	A	8	8	AO	A	D-205010/1 (G-10)	0	С	С	PIT STC LJ-C	2Y Q LJ	
Q2P13V0303 (HV2867C) CTMT MINI-PUF	2	A	8	B)	AO	A	D-205010/2 (D-3)	0	С	C	STC LJ-C PIT	Q LJ 2Y	
Q2P13V0304 (HV2867D) CTMT MINI-PUF	2	Α	8	В	AO	A	D-205010/1 (E-10)	0	С	С	PIT STC LJ-C	2Y Q LJ	

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Unit 2

P15 - Sampling

_							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P15HV3179A	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
SG 2A BLOWDOW		WER					(A-3)				STC	Q	
Q2P15HV3179C	2	B	3/8	GL	AO	•	D 005000/0	O/C	~~~~~	C	DIT		
GEF 1911431/96	2	D	3/0	GL	AU	A	D-205009/2 (A-3)	0/0	С	U	PIT STC	2Y Q	
SG 2A BLOWDOW	VN SA	MPLE	ISOLATIC	ON VALVE									
Q2P15HV3180A	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(C-3)				STC	Q	
SG 2B BLOWDOW	NN LO	WERI	SOLATIO										
Q2P15HV3180C	2	В	3/8	GL	AO	A	D-205009/2	O/C	С	С	PIT	2Y	
							(C-3)				STC	Q	
SG 2B BLOWDOW		MPLE								"			
Q2P15HV3181A	2	в	· 3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(E-3)				STC	Q	
SG 2C BLOWDOV	NN LO	WERI		N VALVE					1000000				
Q2P15HV3181C	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(E-3)				STC	Q	
SG 2C BLOWDOW													
Q2P15HV3328	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(A-3)				STC	Q	
SG 2A BLOWDOV	VN SA												
Q2P15HV3329	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(C-4)				STC	Q	
SG 2B BLOWDOV	·	MPLE											
Q2P15HV3330	2	В	3/8	GL	AO	Α	D-205009/2	O/C	С	С	PIT	2Y	
							(E-3)				STC	Q	
SG 2C BLOWDOW			.										
Q2P15HV3334	2	Α	3/8	GL	AO	Α	D-205009/1	С	С	С	PIT	2Y	
							(G-5)				STC	Q	
ACCUMULATOR T	TANKS	5 SAMF	'LE (PEN	50)	_						Ш-С	Ш	

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Unit	2
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P15 - Sampling

PID (Coord) CC Cat. Valve ID AP **RR/CSJ/ROJ Remarks** Size Type Act. NP SP FP Test Frea Q2P15HV3766 2Y 2 Α 3/8 GL AO D-205009/1 С С С PIT Α STC Q (G-4) LJ-C L ACCUMULATOR TANKS SAMPLE (PEN 50) D-205009/1 PIT 2Y Q2P15SV3103 2 Α 3/8 GL SO Α 0 С С STC Q (A-3) LJ-C ш RCS PRESSURIZER LIQUID SAMPLE (PEN 57) Q2P15SV3104 ŜO D-205009/2 0 PIT 2Y 2 Α 3/8 GL С С Α STC Q (F-2) LU-C LJ PRESSURIZER STEAM SAMPLE TO GFFD (PEN 56) SO PIT 2Y Q2P15SV3331 2 Α 3/8 GL Α D-205009/2 0 Ċ С (F-4) STC Q LJ-C IJ PRESSURIZER STEAM SAMPLE LINE CTMT ISO (PEN 56) PIT 2Y Q2P15SV3332 3/8 SO D-205009/1 Ĉ 2 Α GL Α 0 С STC Q (A-5) PRESSURIZER LIQUID SAMPLE TO GFFD (PEN 57) M-C L 2Y Q2P15SV3333 2 Α 3/8 GL SO D-205009/1 0 С С PIT Α (C-5) STC Q LU-C LJ RCS (HL) SAMPLE TO GFFD (PEN 58) PIT SO D-205009/1 Q2P15SV3765 2 . **A** 3/8 GL Α 0 С С 2Y STC Q (C-4) ш-С Ы RCS (HL) SAMPLE TO GFFD (PEN 58)



Unit 2

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P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N2P16V0718A	Aug	С	2.5	VR	S	Α	D-200013/4 (B-10)	С	O/C	С	ETO ETC	RF RF	
SW VACUUM BR	EAKEF	rs - Tu	RBINE BL	DG HVAC	;								
N2P16V0718B	Aug	С	2.5	VR	S	Α	D-200013/4 (B-10)	С	O/C	С	ETO ETC	RF RF	
SW VACUUM BR	EAKEF	rs - Tu	RBINE BL	DG HVAC	:								
Q2P16V0003A (MOV3130A)	3	В	20	В	MO	Р	D-205003/1 (E-2)	0	0	AI	PIT	2Y	
SW TO CCW HX	INLET	LINE IS	SO VALVE	<u> </u>									
Q2P16V0003B (MOV3130B)	3	B	20	B	MO	Ρ	D-205003/1 (F-2)	0	0	AI	PIT	2Y	
SW TO CCW HX 02P16V0003C	INLEI 3	B	20 VALVE	<u>.</u> B	MO				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
(MOV3130C) SW TO CTMT AIF	-	_			MU	Ρ	D-205003/1 (H-2)	0	0	AI	PIT	2Y	
Q2P16V0010A	2	B	12	B	MO		D.005000/4	0		A 1	DIT		
(MOV3019A)	2	D	12	D	MO	Α	D-205003/1 (A-7)	0	O/C	AI	PIT STO	2Y Q	
SW TO CTMT AIF	3 000	LER LI	NE ISO VA				((())				STC	ã	
Q2P16V0010B	2	В	12	B	MO	A	D-205003/1	0	0/C	AI	PIT	2Y	·····
(MOV3019B)							(C-7)	-	0,0		STO	Q	
SW TO CTMT AIF	1000	LER LI	NE ISO VA	ALVE							STC	Q	
Q2P16V0010C	2	B	12	B	MO	Α	D-205003/1	0	O/C	Al	PIT	2Y	
(MOV3019C)							(E-7)				STO	Q	
SW TO CTMT AIR											STC	<u> </u>	
Q2P16V0010D	2	B	12	В	MO	Α	D-205003/1	0	O/C	AI	PIT	2Y	
(MOV3019D)							(F-7)				STO STC	Q	
SW TO CTMT AIF			·····-								,	Q	
Q2P16V0011A (PSV3020A)	3	С	1 1/2 X 2	SR	S	Α	D-275003/1 (A-8)	С	O/C	NA	ETSP	Т	

Unit 2

P16 - Service Water

PID Valve ID (Coord) CC Cat. Size AP NP SP FP **RR/CSJ/ROJ Remarks** Туре Act. Test Frea Q2P16V0011B C $1 \frac{1}{2} \times 2$ S 3 SR Α D-275003/1 С O/C NA ETSP Т (PSV3020B) (C-8) SW SUPPLY TO CTMT COOLERS RELIEF Q2P16V0011C 3 C 1 1/2X2 S С ETSP Т SR D-275003/1 O/C NA Α (PSV3020C) (E-8) SW SUPPLY TO CTMT COOLERS RELIEF Q2P16V0011D 3 С 1 1/2X2 SR S D-275003/1 С O/C NA ETSP Т Δ (PSV3020D) (F-8) SW SUPPLY TO CTMT COOLERS RELIEF 3 С Q2P16V0015A 3/4 X 1 SR S С ETSP Α D-205003/2 O/C NA Т (PSV3142A) (B-3) AFW PUMP ROOM COOLER RELIEF Q2P16V0015B 3 С 3/4 X 1 SR S С Α D-205003/2 O/C NA ETSP Т (PSV3142B) (D-3) AFW PUMP ROOM COOLER RELIEF 3 С 3/4 X 1 SR S Q2P16V0020A D-205003/2 С O/C NA ETSP Т Α (PSV3137A) (B-6) **RHR/LHSI PUMP ROOM COOLER RELIEF** Q2P16V0020B 3 С 3/4 X 1 SR S С NA ETSP Α D-205003/2 O/C Т (PSV3137B) (B-7) **RHR/LHSI PUMP ROOM COOLER RELIEF** Q2P16V0025A C SR S 3 3/4 X 1 D-205003/2 С O/C NA ETSP Т Α (PSV3138A) (D-7) CCW PUMP ROOM COOLER RELIEF Q2P16V0025B 3 С 3/4 X 1 SR S Α D-205003/2 С O/C NA ETSP Т (PSV3138B) (D-7) CCW PUMP ROOM COOLER RELIEF Q2P16V0035A С 3/4 X 1 S 3 SR D-205003/2 C NA ETSP Τ Α O/C (PSV3139A) (E-7) CTMT SPRAY PUMP ROOM COOLER RELIEF

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Unit 2

P16 - Service Water

PID (Coord) Valve ID CC Cat. Size Type Act. AP NP SP FP Test Frea **RR/CSJ/ROJ Remarks** Q2P16V0035B 3 С 3/4 X 1 SR S D-205003/2 С O/C NA ETSP Т Α (PSV3139B) (F-7) CTMT SPRAY PUMP ROOM COOLER RELIEF Q2P16V0043A 2 B 10 В MO D-205003/1 С O/C AL PIT 2Y Α (MOV3024A) (A-10) STC Q STO Q SW EMERG FROM CTMT COOLER 2A Q2P16V0043B 2 В PIT 2Y В 10 MO D-205003/1 С O/C AI Α STO Q (MOV3024B) (C-10) Q STC SW EMERG FROM CTMT COOLER 2B Q2P16V0043C 2 В 10 B С 2Ÿ MO D-205003/1 O/C AI PIT Α (MOV3024C) STC Q (E-10) STO Q SW EMERG FROM CTMT COOLER 2C B Q2P16V0043D 2 В 10 MO D-205003/1 С O/C AI PIT 2Y Α (MOV3024D) STO Q (G-10) STC Q SW EMERG FROM CTMT COOLER 2D Q2P16V0044A 2 В В MO PIT 2Y 6 D-205003/1 0 O/C AL Α STO Q (MOV3023A) (B-10) SW FROM CTMT AIR COOLERS STC Q B Q2P16V0044B 2 MO 2Y В 6 Α D-205003/1 0 O/C Al PIT (MOV3023B) STO Q (D-10) Q STC SW FROM CTMT AIR COOLERS 8 MO Q2P16V0044C 2 B 6 D-205003/1 0 O/C AI PIT 2Y Α (MOV3023C) (E-10) STO Q STC Q SW FROM CTMT AIR COOLERS Q2P16V0044D 2 B B PIT 2Y 6 MO Α D-205003/1 0 O/C AI (MOV3023D) STO Q (G-10) STC Q SW FROM CTMT AIR COOLERS Q2P16V0052 3 В 10 B MO D-205003/2 Ał PIT 2Y Α 0 С (MOV3149) STC Q (E-2) SW TO SG BLOWDOWN HX AND BTRS CHILLER UNITS

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Unit 2

P16 - Service Water

							PID						_
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P16V0064 (MOV3150)	3	В	10	В	MO	Α	D-205003/2 (E-4)	0	С	Al	PIT STC	2Y Q	
SW FROM SG BL	OWDO	WNH	IX AND BT	RS CHILL	ER UNIT	S	()						
Q2P16V0069A	3	С	30	СК	S	A	D-200013/8 (C-10)	0	0	NA	BDTC ETO	RF Q	
AUX BLDG A TRA	IN SW	DISC	HARGE LI	NE CHEC	K VALVE		, ,						
Q2P16V0069B	3	С	30	СК	S	A	D-200013/8 (A-10)	0	0	NA	BDTC ETO	RF Q	
AUX BLDG B TRA	IN SW	DISC	HARGE LI	NE CHEC	K VALVE		•						
Q2P16V0070A	3	С	16	СК	S	Α	D-205003/1 (C-6)	0	0	NA	ETO BDTC	Q Q	
A TRAIN SW TO	CTMT (COOL	ERS HEAD	DER CHEC	CK VALVE	<u> </u>		o					
Q2P16V0070B	3	С	16	СК	S	A	D-205003/1 (E-6)	0	0	NA	ETO BDTC	QQ	
B TRAIN SW TO (CTMT	COOL	ERS HEAD	DER CHEC	CK VALVE	2							
Q2P16V0071 (MOV3135)	2	A	6	В	MÖ	A	D-205003/2 (B-9)	0	С	AI	PIT STC	2Y Q	
SW TO RCP MOT	ORCO	DOLEF	RS								LJ-C	Ш	
Q2P16V0072 (MOV3134)	2	Α	6	В	MO	Α	D-205003/2 (B-12)	0	С	AI	PIT STC	2Y Q	
SW RETURN FRO	DM RC	P MOT	FOR COOL	ERS							C-لیا	ليا	
Q2P16V0075	2	AC	6	СК	S	Α	D-205003/2 (B-9)	0	С	NA	BDTO ETC	Normal O RF	ps ROJ-V-28
SW TO RCP MOT	ORCO	OOLEF	RS								C-لىا	Ы	
Q2P16V0081 (MOV3131)	2	Α	6	В	MO	Α	D-205003/2 (B-12)	0	С	AI	PIT STC	2Y Q	
SW RETURN FRO	DM RC	P MO1	OR COOL	ERS			-				LJ-C	Ы	
ow ne ronwind							D-205003/2	С	O/C	NA	ETSP	Т	

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Unit 2 P16 - Service Water

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							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P16V0204 (PSV3401)	2	AC	3/4 X 1	SR	S	Α	D-205003/2 (B-9)	С	O/C	NA	ETSP LJ-C	T LJ	
CTMT PEN NO 6	0 THEF	RMAL	RELIEF VA	LVE									
Q2P16V0206A	2	С	12	CK	S	Α	D-205003/1 (A-7)	0	O/C	NA	ETPO ETO	ARFD	-
SW TO CTMT CO	DOLER	2A CH	HECK VAL	VE _							ETC	RF	ROJ-V-30
Q2P16V0206B	2	С	12	СК	S	Α	D-205003/1 (C-7)	0	O/C	NA	ETPO ETO	ARFD Q	
SW TO CTMT CO	DOLER										ETC	RF	ROJ-V-30
Q2P16V0206C SW TO CTMT CO	2)() FR	C C	12 HECK VAL	CK VF	S	Α	D-205003/1 (E-7)	0	O/C	NA	ETPO ETO ETC	ARFD Q RF	ROJ-V-30
Q2P16V0206D	2	С	12	СК	S	A	D-205003/1 (F-7)	0	O/C	NA	ETPO ETO ETC	ARFD Q RF	ROJ-V-30
Q2P16V0207A (MOV3441A) SW FROM CTM1	2 AIR C	B	10 R LINE ISC	B	MO	A	D-205003/1 (A-9)	0	O/C	AI	STO STC PIT	Q Q 2Y	
Q2P16V0207B (MOV3441B) SW FROM CTMT	2	B		B	MO	Α.	D-205003/1 (C-9)	0	O/C	AI	PIT STC STO	2Y Q Q	
Q2P16V0207C (MOV3441C) SW FROM CTMT	2	B	10	B	MO	A	D-205003/1 (E-9)	0	O/C	Al	PIT STO STC	2Y Q Q	
Q2P16V0207D (MOV3441D) SW FROM CTM1	2	В	10	В	MO	A	D-205003/1 (F-9)	0	O/C	Al	PIT STC STO	2Y Q Q	
Q2P16V0208A (PSV3442A) CTMT COOLER	2	С	1.5X2	SR	S	A	D-205003 (A-9)	C	O/C	NA	ETSP	Т	

Joseph M. Fa	rley Nuclear	Plant IST	Program
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Unit 2

P16 - Service Water

							PID						
Valve ID	CC	Cat.	Size	Type	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P16V0208B (PSV3442B)	2	С	1.5X2	SR	S	Α	D-205003 (C-9)	С	O/C	NA	ETSP	Т	
CTMT COOLER SI	W RE	FURN I	Relief v	ALVE									
Q2P16V0208C (PSV3442C)	2	С	1.5 X 2	SR	S	Α	D-205003 (E-9)	С	O/C	NA	ETSP	т	
CTMT COOLER S	W RE	FURN	RELIEF V	ALVE									
Q2P16V0208D (PSV3442D)	2	С	1.5X2	SR	S	A	D-205003 (F-9)	С	O/C	NA	ETSP	Т	
CTMT COOLER SI	W RE	FURN I	RELIEF V	ALVE									
Q2P16V0506	3	B	42	В	MO	Ρ	D-200013/2 (E-7)	Al	Al	Al	PIT	2Y	
2C SW PUMP TO	B HDF	RISO V	/ALVE										
Q2P16V0507	3	B	42	В	MO	Р	D-200013/2 (E-4)	Al	Al	Al	PIT	2Y	
2C SW PUMP TO	A HDF	RISO V	/ALVE										
Q2P16V0508	3	В	42	В	MO	Ρ	D-200013/2 (D-11)	0	0	Al	PIT	2Y	
SW INLET TO STR	RAINE	R LINE	ISO VAL	.VE									
Q2P16V0511	3	В	42	B	MO	P	D-200013/2 (D-3)	0	0	Al	PIT	2Y	
SW INLET TO STR	RAINE	r line	ISO VAL	.VE					_				
Q2P16V0514	3	B	24	В	MO	A	D-200013/8 (E-5)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-19
SW SUPPLY TO T	URBI	NE BLC	G-TRAIN	I B									
Q2P16V0515	3	В	24	B	MO	A	D-200013/8 (E-4)	0	С	AI	PIT STC	2Y CSD/RF	CSJ-V-19
SW SUPPLY TO T	URBI	NE BLC	G-TRAIN	A			- •						
Q2P16V0516	3	В	24	В	MO	Α	D-200013/8 (D-5)	0	С	AI	PIT STC	2Y CSD/BE	CSJ-V-19

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Unit 2

P16 - Service Water

PID (Coord) Valve ID CC Cat. AP Size Type Act. NP SP FP Test Frea **RR/CSJ/ROJ Remarks** Q2P16V0517 3 В 24 8 MO D-200013/8 0 С Ał PIT 2Y Α CSD/RF CSJ-V-19 (D-3) STC SW TRAIN B TO TURBINE BLDG Q2P16V0518 3 В В MO 12 D-200013/3 0 O/C AI PIT 2Y Α STC Q Note-1 (B-2) SW TO DG HEADER-TRAIN B Q2P16V0519 3 B 12 B MO D-200013/3 0 A PIT 2Y Α O/C STC Q Note-1 (B-2) SW TO DG HEADER-TRAIN A B В MO Q2P16V0536 3 12 Α D-200013/3 0 O/C AI STC Q Note-1 PIT 2Y (G-2) SW FROM DG HEADER-TRAIN B Q2P16V0537 8 12 B MO 3 D-200013/3 0 O/C AI PIT 2Y Α STC 0 Note-1 (G-2) SW FROM DG HEADER-TRAIN A B B D-200013/8 Q2P16V0538 3 42 MO С 0 AI PIT 2Y Α STO (C-10) Q SW HEADER B EMERG RECIRC TO STORAGE POND Q2P16V0539 В 42 В D-200013/8 С 3 MO Α 0 AI PIT 2Y STO (E-9) 0 SW HEADER A EMERG RECIRC TO STORAGE POND Q2P16V0540 B 3 24 В MO D-200013/8 0 AI 2Y Α С PIT (D-9) STC CSD/RF CSJ-V-19 SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A Q2P16V0541 3 В 24 В MO Α D-200013/8 0 AI PIT 2Y С CSD/RF CSJ-V-19 (B-9) STC SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN B Q2P16V0542 3 В 24 В MO 0 AI PIT 2Y A٠ D-200013/8 С STC CSD/RF CSJ-V-19 (D-10) SW RETURN FROM TURBINE BLDG ISOLATION - TRAIN A

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Unit 2 P16 - Service Water

							PID						, . <u>_</u> ,
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P16V0543	3	В	24	В	MO	A	D-200013/8 (B-10)	0	С	Al	PIT STC	2Y CSD/RF	CSJ-V-19
SW RETURN FF	ROM TU	RBINE	BLDG IS	OLATION	- TRAIN E	3							
Q2P16V0545	3	В	30	В	MO	Α	D-200013/8 (A-12)	0	С	AI	PIT STC	2Y Q	
SW HEADER B	NORMA	L DISC	HDRISC)									
Q2P16V0546	3	B	30	В	MO	A	D-200013/8 (C-12)	0	С	Al	STC PIT	Q 2Y	
SW HEADER A	NORMA	L DISC	HDR ISC)									
Q2P16V0549	3	B	30	B	MO	Α	D-200013/8 (E-12)	0	С	Al	PIT STC	2Y Q	
SW RETURN TO) STANE	DPIPE	LINE ISO	VALVE									
Q2P16V0550	3	B	30	B	MO	A	D-200013/8 (B-13)	0	С	Al	PIT STC	2Y Q	
SW RETURN TO	CIRC V	NATEF	CANAL	LINE ISO	VALVE								
Q2P16V0552	3	С	20	CK	S	A	D-200013/2 (H-2)	O/C	O/C	NA	ETO ETC	Q Q	
SW PUMP 2A DI	SCHAR	GE CH	IECK				-						
Q2P16V0553	3	С	20	СК	S	Α	D-200013/2 (H-4)	O/C	O/C	NA	ETO ETC	Q	
SW PUMP 2B DI	SCHAR	GE CH	ECK										
Q2P16V0554	3	С	20	СК	S	Α	D-200013/2 (H-6)	O/C	O/C	NA	ETO ETC	Q	
SW PUMP 2C D	ISCHAR	GE CH	IECK										
Q2P16V0555	3	С	20	СК	S	Α	D-200013/2 (H-8)	O/C	O/C	NA	ETO ETC	Q	
SW PUMP 2D DI	SCHAR	GE CH	IECK										
Q2P16V0556	3	С	20	СК	S	A	D-200013/2 (H-10)	O/C	O/C	NA	ETO ETC	Q Q	
SW PUMP 2E DI	SCHAR	GE CH	ECK										

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Unit 2

P16 - Service Water

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Frea	RR/CSJ/ROJ Remarks
Q2P16V0557	3	В	24	B	MO	P	D-200013/8	0	0	Ai	PIT	2Y	
SW DILUTION B	YPASS			F			(F-7)						
Q2P16V0558	3	B	24	B	MO	P	D-200013/8 (F-3)	0	0	Al	PIT	2Y	
SW DILUTION B	YPASS	ISO A	TRAIN				(,						
Q2P16V0564	3	С	12	СК	S	Α	D-200013/3 (G-2)	0	0	NA	BDTC ETPO	RF ARFD	
DIESEL GENER	ATORS	TRAIN	B' SERV	ICE WATE	ER						ETO	RF	ROJ-V-32
Q2P16V0565	3	С	12	СК	S	A	D-200013/3 (G-2)	0	0	NA	BDTC ETPO	RF ARFD	
DIESEL GENER VALVE	ATORS	TRAIN	A' SERV	ICE WATE	ER CHEC	К					ETO	RF	ROJ-V-32
Q2P16V0592	3	В	8	B	MO	P	D-200013/3 (D-7)	0	0	Al	PIT	2Y	· · · · · · · · · · · · · · · · · · ·
SW TO DG LINE	ISO VA	ALVE					•••						
Q2P16V0593	3	8	8	B	MO	Ρ	D-200013/3 (F-7)	0	0	Al	PIT	2Y	
2B DG SW SUPI	PLY												
Q2P16V0659	3	С	6	СК	S	Α	D-200013/3 (C-3)	0	O/C	NA	ETPO ETO	ARFD	
UNIT 2 SW SUP	PLY TO	DG 20)				、 ,				ETC	RF	ROJ-V-31
Q2P16V0660	3	С	6	СК	S	Α	D-200013/3 (C-10)	0	O/C	NA	ETPO ETO	ARFD Q	
UNIT 2 SW SUP	PLY TO	DG 10	5								ETC	RF	ROJ-V-31
Q2P16V0661	3	С	8	СК	S	A	D-200013/3 (C-12)	0	O/C	NA	ETPO ETC	ARFD RF	RR-V-01
UNIT 2 SW SUP	PLY TO	DG 1-2	2A								ETO	Q	
Q2P16V0679	3	С	8	VR	S	A	D-200013/2 (B-10)	С	O/C	NA	ETO ETC	AF RF	
SW HEADER VA	CUUM	BREAK	(ER				·						

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02 M. 602 MO

Unit 2

P16 - Service Water

PID (Coord) Valve ID CC Cat. Size Туре Act. AP NP SP FP **RR/CSJ/ROJ Remarks** Test Freq Q2P16V0680 VR S 3 С 8 D-200013/2 O/C NA ETO RF Α С (B-4) ETC RF SW HEADER VACUUM BREAKER 0 Q2P16V0720A 3 В 2 GL MO D-200014 0 AI PIT 2Y Ρ (E-5) SW FROM CYCLONE SEPARATOR TRAIN A OUTLET Q2P16V0720B 3 В 2 GL MO D-200014 Ρ 0 0 AI PIT 2Y (E-9) SW FROM CYCLONE SEPARATOR TRAIN B OUTLET Q2P16V0721A 0 3 В 2 GL MO Α D-200014 С AI STC Q PIT 2Y (H-4) SW FROM CYCLONE SEPARATOR TRAIN A INLET Q2P16V0721B 3 В 2 GL MO D-200014 0 PIT 2Y Α С Ał (H-9) STC Q SW TO CYCLONE SEPARATOR TRAIN B INLET

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Unit 2

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P17 - Component Cooling Water

							PID						
Valve ID	СС	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P17HV2229	3	В	2	GL	AO	A	D-205002/2 (H-2)	0	С	С	PIT STC	2Y Q	
CCW SUPPLY TO	SAM	PLE CO	OLERS				• •					_	
Q2P17HV3045	2	A	3	GL	AO	A	D-205002/2 (D-6)	0	С	С	PIT STC	2Y RF	ROJ-V-33
CCW RETURN FR	IOM F	ICP TH	ERMAL E	BARRIER (PEN 43)					•	မ-C	ω	
Q2P17HV3067 CCW RETURN FR	2	A	6			A	D-205002/2 (E-6)	0	С	C	PIT STC LU-C	2Y RF LJ	ROJ-V-36
Q2P17HV3095	2	A	6	GL	AO	Α	D-205002/2 (E-1)	0	С	С	PIT STC	2Y RF	ROJ-V-36
CCW SUPPLY TO	EXC	ESS LE	TDOWN	HX (PEN 4							LJ-C	ليا	
Q2P17HV3096A	3	В	8	B	AO	Α	D-205002/2 (G-12)	0	С	С	PIT STC	2Y Q	
CCW TO RECYCL RECOMBINER	E SY	s, was	STE GAS	SYS, HYD	ROGEN								
Q2P17HV3096B	3	В	8	B	AO	Α	D-205002/2 (F-7)	0	С	C	PIT STC	2Y Q	
CCW FROM RECT	YCLE	sys, v	ASTE G	AS SYS, H	YDROGE	N							
Q2P17HV3184	2	A	3	GL	AO	A	D-205002/2 (D-6)	0	С	С	PIT STC	2Y RF	ROJ-V-33
CCW RETURN FR	ROM F	RCP TH	ERMAL I	· · · · · · · · · · · · · · · · · · ·			·····	<u></u>			LU-C	<u>ມ</u>	· · · · · · · · · · · · · · · · · · ·
Q2P17HV3443	2	A	6	GL	AO	A	D-205002/2 (E-5)	0	С	С	PIT	2Y RF	ROJ-V-36
CCW RETURN FR	IOM E	XCES	SLETDO		EN 46)						<u> </u>	LJ	
Q2P17RV3028	3	В	2	GL	AO	A	D-205002/1 (A-2)	0	С	С	PIT STC	2Y Q	
CCW SURGE TAN	IK VE	NT							••				

Unit 2

P17 - Component Cooling Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P17V0001A	3	С	18	СК	S	Α	D-205002/1 (C-3)	O/C	O/C	NA	ETO ETC	Q Q	
CCW PUMP DISC	CHARG	E CHI	ECK VALV	ES			X = - y						
Q2P17V0001B	3	С	18	СК	S	A	D-205002/1 (E-3)	O/C	O/C	NA	ETO ETC	Q	
CCW PUMP DISC	CHARG	E CH	ECK VALV	ES			•						
Q2P17V0001C	3	С	18	СК	S	A	D-205002/1 (G-3)	O/C	O/C	NA	ETO ETC	Q Q	
CCW PUMP DISC	CHARG	E CH	ECK VALV	ES									
Q2P17V0006A (PSV3040A) CCW HX RELIEF		C	3/4 X 1	SR	S	A	D-205002/1 (C-4)	С	O/C	NA	ETSP	Т	
Q2P17V0006B (PSV3040B) CCW HX RELIEF	3	C	3/4 X 1	SR	S	A	D-205002/1 (E-4)	С	O/C	NA	ETSP	т	
Q2P17V0006C (PSV3040C) CCW HX RELIEF	3 VALVE	С	3/4 X 1	SR	S	A	D-205002/1 (G-4)	С	O/C	NA	ETSP	т	
Q2P17V0011A (MOV3094A)	3	В	10	В	MO	Р	D-205002/1 (D-8)	0	0	Al	PIT	2Y	
CCW INLET TO S	SFP CC	W HX	LINE ISO	VALVE									
Q2P17V0011B (MOV3094B)	3	В	10	В	MO	Р	D-205002/1 (G-8)	0	0	AI	PIT	2Y	
CCW INLET TO S	SFP CC	W HX	LINE ISO	VALVE									
Q2P17V0029A (MOV3185A) CCW TO RHR H)	3	В	14	В	MO	A	D-205002/1 (F-10)	O/C	0	Al	PIT STO	2Y Q	
Q2P17V0029B (MOV3185B) CCW TO RHR H)	3	В	14	В	MO	A	D-205002/1 (C-11)	O/C	0	AI	PIT STO	2Y Q	

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Joseph M. Farley	<i>' Nuclear Plant I</i> S	T Program
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Unit 2

P17 - Component Cooling Water

							PID						
Valve ID	cc	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P17V0082 (MOV3052)	2	A	6	GA	МО	A	D-205002/2 (C-1)	0	С	Al	PIT STC LJ-C	2Y RF LJ	ROJ-V-33
CCW TO RCP (PI													ROJ-V-34
Q2P17V0083	2	AC	6	СК	S	A	D-205002/2 (C-2)	0	С	NA	ETC LJ-C BDTO	RF LJ Normal Or	
CCW TO RCP (PI			·····										
Q2P17V0087A	3	С	2	СК	S	Α	D-205002/2 (B-3)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-35 ps
CCW INLET TO F	ICP TH	IERMA	L BARRIE						·				
Q2P17V0087B	3	C	2	CK	S	A	D-205002/2 (C-3)	0	С	NA	ETC BDTO	RF Normal Oj	ROJ-V-35 ps
CCW INLET TO F			-										
Q2P17V0087C	3	С	2	CK	S	A	D-205002/2 (D-3)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-35 ps
CCW INLET TO F	RCP TH	IERMA	L BARRIE	ER CHECK	VALVE								
Q2P17V0097 (MOV3046)	2	A	6	GA	MO	Α	D-205002/2 (B-6)	0	С	Al	PIT STC	2Y RF	ROJ-V-33
CCW RETURN FI	ROM R	CP BE	ARINGS	<u></u>	<u> </u>						LJ-C		
Q2P17V0099 (MOV3182) CCW RETURN FI	2 ROM R	A	6 ARINGS		MO	Α	D-205002/2 (C-7)	0	С	Al	STC LJ-C PIT	RF LJ 2Y	ROJ-V-33
Q2P17V0111	3	C	14	CK	S	A	D-205002/1 (E-1)	0	С	NA	ETC BDTO	RF Normal O	ROJ-V-37 ps
CCW PUMP SUC	TION (HECK	VALVE										
Q2P17V0115 (PSV3029)	3	С	4 X 6	SR	S	A	D-205002/1 (A-2)	С	O/C	NA	ETSP	Т	
CCW SURGE TA	NK REI	LIEF V/	ALVE										
Q2P17V0117A (MOV3031A) RMW TO CCW S	3	В	2	GL	MO	A	D-205002/1 (A-5)	C	O/C	Al	STO STC PIT	Q Q 2Y	

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Unit 2

P17 - Component Cooling Water

/alve ID	CC	. .											
	~~	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
22P17V0117B	3	В	2	GL	MO	A	D-205002/1	С	O/C	Al	PIT	2Y	
MOV3031B)							(B-5)				STO	Q	
RMW TO COW SY	'STE <mark></mark> ₩	1									STC	Q	
22P17V0121A	3	B	2	GL	MO	Α	D-205002/1	O/C	С	Al	PIT	2Y	
MOV3030A)							(A-5)				STC	Q	
DEMIN WATER M/ /ALVE	AKEUI	РТО(CCW SUR	GE TANK	LINE ISO								
22P17V0121B	3	В	2	GL	MO	Α	D-205002/1	O/C	С	Al	PIT	2Y	
MOV3030B)							(B-5)				STC	Q	
DEMIN WATER M/ /ALVE	AKEUI	P TO (CCW SUR	GE TANK	LINE ISO								
22P17V0126A	3	С	1 1/2X2	SR	S	Α	D-205002/1	С	O/C	NA	ETSP	T	
PSV3354A)							(E-11)						
RHR HX RELIEF V	ALVE												
22P17V0126B	3	С	1 1/2X2	SR	S	Α	D-205002/1	С	O/C	NA	ETSP	Т	
PSV3354B)							(B-11)						
RHR HX RELIEF V	ALVE												
22P17V0149A	3	С	1 X 1-1/2	SR	S	Α	D-205002/1	С	O/C	NA	ETSP	Т	***************************************
PSV3381A)							(F-11)						
RHR PUMP SEAL	COOL	ER RE	ELIEF										
22P17V0149B	3	С	I X 1-1/2	SR	S	Α	D-205002/1	С	O/C	NA	ETSP	Т	
PSV3381B)							(B-9)						
THR PUMP SEAL	COOL	ER RE	ELIEF										
22P17V0153	2	AC	3/4 X 1	SR	S	Α	D-205002/2	С	O/C	NA	ETSP	Т	
PSV3413)							(E-2)				LU-C	Ш	
HERMAL RELIEF	VALV	E ON	CTMT PE	N 45									
22P17V0154	2	AC	3/4 X 1	SR	S	A	D-205002/2	С	O/C	NA	ETSP	Т	•
PSV3414)							(F-6)				Ш-С	LJ	
HERMAL RELIEF	VALV	E ON	CTMT PE	N 46									

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Unit 2

P17 - Component Cooling Water

							PID						
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P17V0155	2	AC	3/4 X 1	SR	S	A	D-205002/2	С	O/C	NA	ETSP	Т	
(PSV3415)							(B-6)				M-C	닚	
THERMAL RELIE	F VAL\	/E ON	CTMT PE	N 44									
Q2P17V0158	2	AC	3/4 X 1	SR	S	A	D-205002/2	С	O/C	NA	ETSP	т	
(PSV3444)							(C-2)				LJ-C	L	
THERMAL RELIE	F VAL	/E ON	CTMT PE	N 42			. ,						
Q2P17V0159	2	AC	6	CK	S	A	D-205002/2	0	С	NA	ETC	RF	ROJ-V-34
							(E-2)				LU-C	IJ	
CCW SUPPLY TO	D EXCE	ESS LE	TDOWN	IX (PEN 4	5)						BDTO	Normal Op	DS
Q2P17V0263A	3	С	1	CK	S	A	D-205002/1	С	0	NA	ETSP	Т	
							(A-2)						
CCW SURGE TAI	NK VA	CUUM	RELIEF										
Q2P17V0263B	3	С	1	CK	S	A	D-205002/1	С	0	NA	ETSP	Т	
							(A-2)						
CCW SURGE TAI	NK VA	CUUM	RELIEF										
Q2P17V0288	3	С	2	CK	S	A	D-205002/2	0	С	NA	ETC	Q	
							(H-6)		-		BDTO	Normal Op	05
CCW RETURN FI		ROSS	FAILED F	UEL DET	ECTOR 8	έ .						•	
SAMPLE COOLE	RS												

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					-		Unit P18 - Ser		r	-			Page 58 of 6
Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P18V0001	2	Α	2	GL	М	Р	D-205035/1 (G-7)	LC	С	NA	LJ-C	IJ	
SERVICE AIR TO (PEN 47)	D PENE	TRATIC	ON ROO!	MS AND C	ONTAINN	AENT							
Q2P18V0002	2	A	2	GL	М	Р	D-205035/1 (G-7)	LC	С	NA	W-C	IJ	· · · ·
<u> </u>	_		_			•		LC	С	NA	W-C	W	
Q2P18V0002 SERVICE AIR TO	_		_			•	(G-7) D-205035/1	LC LC	C C	NA	W-C ₩-C	ມ 	· ·
Q2P18V0002 SERVICE AIR T((PEN 47)	D PENE	TRATIC	DN ROOI	MS AND C	ONTAINN	ÆNT	(G-7)		_				

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Unit 2

P19 - Instrument Air

							PID			-			
Valve ID	CC	Cat.	Size	Туре	Act.	AP	(Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
N2P19PSV2228	Aug	С	3/4	SR	S	A	D-205034/4 (B-1)	С	O/C	NA	ETSP	Т	
BACKUP NITROO	GEN SL	IPPLY	TO PRES	SS PORVs			、						
N2P19V0007A	Aug	С	1/2	СК	S	A	D-205033/2 (E-9)	O/C	С	NA	ETC	RF	
INST AIR SUPPL ACCUM	Y TO A	UX STI	EAM VAL	VE Q2N12	V001A AI	R	. ,						
N2P19V0007B	Aug	С	1/2	СК	S	Α	D-205033/2 (D-9)	O/C	С	NA	ETC	RF	
INST AIR SUPPL' ACCUM	Y TO A	UX STI	EAM VAL	VE Q2N12	V001B AI	R							
N2P19V0236A	Aug	С	3/4	СК	S	Α	D-205034/4 (B-7)	С	С	NA	ETC	RF	
INST AIR SUPPL	Y TO P	ORVS					(
N2P19V0243	Aug	С	3/4	СК	S	A	D-205034/4 (C-3)	С	С	NA	ETC	RF	
INST AIR SUPPL	Y TO P	ORVS					. ,						
Q2P19HV2228 (V0006)	2	Α	3/4	GL	AO	Α	D-205034/4 (B-4)	С	O/C	С	PIT STO	2Y Q	
BACKUP NITRO(978)	GEN SL	IPPLY	TO PRES	SURIZER	PORV'S	(PEN					STC LJ-C	Q LT	
Q2P19HV3611	2	Α	2	GL	AO	A	D-205034/2 (E-5)	0	С	C	STC LJ-C	RF LJ	ROJ-V-40
CTMT INSTRUM	ENT AI	R SUPP	PLY (PEN	48)							PIT	2Y	
Q2P19V0002	2	AC	2	CK	S	Α	D-205034/4 (E-3)	0	С	NA	ETC LJ-C	ーーーー RF い	ROJ-V-38
CTMT INSTRUM	ENT AIR	R SUPF	PLY (PEN	l 48)			()				BDTO	Normal Op	S
Q2P19V0004	2	AC	1/2	CK	S	Α	D-205034/4 (B-6)	O/C	O/C	NA	ETC ETO	RF CSD/RF	ROJ-V-39 CSJ-V-20
BACKUP AIR SUI	PPLY T	O PRE	SSURIZE	R PORV'S	(PEN 97	B)					LU-C	IJ	

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					Josepi	h M. I	Farley Nucle Unit P19 - Instru	2		Progra	am		Page 60 of 63
Valve ID	cc	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P19V1099 BACKUP NITRO	2		3/4	GL TO PORV	M	Р	D-205034/1 (B-4)	LC	С	NA	LJ-C	ليا	

Unit 2

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P23 - Containment Cooling and Purge

Valve ID	СС	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2P23V0002A (MOV3239) CTMT LEAK RAT	2 E TES ⁻	A T VALV	8 E	GL	MO	Р	D-205010/1 (G-2)	С	С	Al	IJ-C	IJ	
Q2P23V0002B (MOV3239) CTMT LEAK RAT	2 E TES	A T VALV	8 E	GL	МО	Ρ	D-205010/1 (G-2)	С	С	Al	ຟ-C	ليا	

Unit	2
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R43 - Diesel Generator Air Start

Valve ID	CC	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2R43V0519	Aug	В	3/8	τw	SO	Α	D-200212 (C-8)	С	0	AI	ETO	Q	
2B DG AIR STAF	RT SOLE	NOID											
Q2R43V0520	Aug	В	3/8	TW	SO	Α	D-200212 (C-8)	С	0	AI	ETO	Q	······································
2B DG AIR STAF	RT SOLE	NOID					• •						
Q2R43V0532	Aug	С	3/4	СК	S	A	D-200212 (F-4)	O/C	C	NA	ETC BDTO	Q Normal Op)S
2B DG AIR RECE	EIVER A	AIR D	RYER CH	IECK VAL	/E		. ,						
Q2R43V0533	Aug	C	3/4	СК	S	A	D-200212 (F-8)	O/C	C	NA	ETC BDTO	Q Normal Op)S
2B DG AIR RECE	EIVER B	AIR D	RYER CH	IECK VAL	/E		· ·						
Q2R43V0538	Aug	С	1/2	SR	S	A	D-200212 (E-3)	С	O/C	NA	ETSP	Т	
2B DG AIR RECE	EIVER T	ANK A	PRESSU	IRE RELIE	F VALVE								
Q2R43V0539	Aug	С	1/2	SR	S	A	D-200121 (E-7)	С	O/C	NA	ETSP	Т	
2B DG AIR RECE		ANK B	PRESSI	IRE RELIE			- ,						

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Joseph M. Farley Nuclear Plant IST Program

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V48 - Spent Fuel Pool Vent & Filtration

Valve ID	сс	Cat.	Size	Туре	Act.	AP	PID (Coord)	NP	SP	FP	Test	Freq	RR/CSJ/ROJ Remarks
Q2V48V0001A (HV3538A) SFP FILTRATION	Aug I SYS T		16 ETRATIC	B DN RM FIL	AO TER UNIT	A	D-205022 (B-11)	0	O/C	С	PIT STC STO	2Y Q Q	
Q2V48V0001B (HV3538B) SFP FILTRATION	Aug I SYS T	B O PEN	16 ETRATIC	B DN RM FIL		A	D-205022 (D-11)	0	O/C	С	PIT STO STC	2Y Q Q	

12.0 VALVE RELIEF REQUEST LOG

Relief Request	Component	<u>Status</u>
RR-V-1	Q1P16V0661 Q2P16V0661	Submitted to NRC for review.

Reference NRC letter to Mr. D. N. Morey dated October 29, 1998, titled "Relief Request for the Pump and Valve Inservice Testing Program – Joseph M. Farley Nuclear Plant, Units 1 and 2 (TAC Nos. M99186 and M99187)", NRC letter to Mr. D. N. Morey dated March 9, 2000, titled "Joseph M. Farley Nuclear Plant, Units 1 and 2, RE: Approval of Pump and Valve Inservice Testing Program Relief Requests (TAC Nos. MA5135 and MA5136)."

IST_Pgm_RRValves4thInt.doc

SOUTHERN NUCLEAR OPERATING COMPANY IST PROGRAM RELIEF REQUEST PROPOSED ALTERNATIVE IN ACCORDANCE WITH 10 CFR 50.55a(a)(3)(ii) RR-V-1

PLANT/UNIT:	Joseph M. Farley Nuclear Plant / Units 1 and 2
INTERVAL:	4 th Interval beginning December 1, 2007 and ending November 30, 2017.
COMPONENT(S) AFFECTED:	Q1P16V0661 Q2P16V0661
CODE EDITION AND ADDENDA:	ASME OM Code-2001 Edition with Addenda through OMb-2003
REQUIREMENTS:	Paragraph ISTC-5221(c)(3) of the OM Code requires; "At least one valve from each group shall be disassembled and examined at each refueling outage; all valves from each group shall be disassembled and examined at least once every 8 years."
REASON FOR REQUEST:	There are no system design provisions to verify valve reverse flow closure quarterly, at cold shutdown or refueling outage. Therefore, per ISTC-5221(c)(3), this valve will be disassembled at refueling outages to verify operability. No relief is required for the above, per OM ISTC-5221(c)(3), if this valve is disassembled every refueling outage.
	The inspection history of these valves suggests there is no need for disassembly/inspection each outage, thus any additional expense in doing so would be an unnecessary burden. The past inspections of these valves (for both units) dating back to 1984 have not detected any unsatisfactory conditions. On average, the disassembly/inspection of these valves requires 6 man-hours. Additional costs associated with planning, scheduling, supervision, documentation, etc., are also required for this task.
	Without a sampling disassembly and inspection plan, FNP will be required to remove each train of emergency diesel power from service each outage. This will cause the unavailability of the diesel train and hence the risk to the core to be twice that which would be required with grouping. In light of the good inspection history of these valves, FNP will be increasing risk to the core without a commensurate gain in the reliability of the valves.
	This is counter to the philosophy of 10CFR50.65 of balancing reliability and availability which states that "Adjustments shall be made where necessary to ensure that the objective of preventing

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SOUTHERN NUCLEAR OPERATING COMPANY IST PROGRAM RELIEF REQUEST PROPOSED ALTERNATIVE IN ACCORDANCE WITH 10 CFR 50.55a(a)(3)(ii) RR-V-1

failures of structures, systems and components through maintenance is appropriately balanced against the objective of minimizing unavailability of structures, systems and components due to monitoring or preventive maintenance."

PROPOSED ALTERNATIVE AND BASIS: As an alternative to the disassembly and inspection frequency required by Paragraph ISTC-5221(c)(3) of the OM Code, SNC proposes the following.

The valve will be disassembled and manually full stroke exercised every other refueling outage. 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 valve 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, flow rate, level, temperature, seat leakage testing or other positive means, or through the use of ultrasonic (or similar) flow measuring devices. If a problem is determined while disassembling and inspecting the valve, an evaluation will be performed to determine if there is a generic issue involved. As part of this evaluation, the results of the disassembly and inspection from each valve will be reviewed. If a generic problem is determined to exist, then the valve on the other unit will be disassembled and inspected at the next refueling outage.

This proposed alternative of disassembling and inspecting the valve every other refueling provides reasonable assurance of adequate valve operation and readiness. On the basis that compliance with OM Code testing requirements would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety, this proposed alternative should be granted pursuant to 10 CFR 50.55a(a)(3)(ii).

DURATION: 4th IST Interval, December 1, 2007 through November 30, 2017.

- PRECEDENTS: This Relief Request was approved as Q1P16-RR-V-5 and Q2P16-RR-V-5 for the Third 10 Year IST Interval.
- REFERENCES: NRC Safety Evaluation dated March 9, 2000 TAC Nos. MA5135 and MA5136.

STATUS: Submitted for NRC review.

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Version 1.0

Status

13.0 <u>COLD SHUTDOWN JUSTIFICATION (CSJ) LOG</u>

.

<u>CSJ</u>	<u>Components</u>
CSJ-V-1	Q1(2)B13SV2213A & B Q1(2)B13SV2214A & B
CSJ-V-2	Q1(2)E11V0001A & B Q1(2)E11V0016A & B
CSJ-V-3	Q1(2)E11V0044
CSJ-V-4	Q1(2)E11V0009A & B
CSJ-V-5	NOT USED
CSJ-V-6	Q1(2)E21V0253A, B & C
CSJ-V-7	Q1(2)E21V0210
CSJ-V-8	Q1(2)E21V0254 Q1(2)E21V0257 Q1(2)E21V0258 Q1(2)E21V0565A & B
CSJ-V-9	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-V-16	Q1(2)N23V0002D, F & H
IST_Pgm_VLVCSJ_4thIn	t.doc 13-1

Version 1.0

<u>Status</u>

<u>CSJ</u>	Components
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	Q1(2)P19V0004

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COLD SHUTDOWN JUSTIFICATION CSJ-V-1

System:	Reactor Coolant (B13)
Valve:	Q1(2)B13SV2213A, B, Q1(2)B13SV2214A, B
Other Valve No: Drawing:	HV-1, HV-2, HV-3, HV-4 D-175037-1 (E-7, E-7, E-8, E-8) D-205037-1 (E-7, E-7, E-8, E-8)
Category: Class: Function:	B 2 Reactor vessel head vent valve.
Quarterly Test Requirements:	Exercise, time, and fail (ISTC-3510, 5151 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).

IST_Pgm_VLVCSJ_4thInt.doc 13-3

COLD SHUTDOWN JUSTIFICATION CSJ-V-2

 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 Exercise and time (ISTC-3510 and 5121). **Requirements:**

Cold ShutdownThese 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 PartNone, partial-valve exercising is precluded for the same reasons as full-
stroke exercising.Strokestroke exercising.Exercising:

Cold Shutdown Exercise and time per ISTC-3521(c). **Testing:**

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COLD SHUTDOWN JUSTIFICATION CSJ-V-3

System: Valve:	LHSI/RHR (E11) Q1(2)E11V0044
Other Valve No: Drawing:	8889 D-175038-2 (F-3) D-205038-2 (F-3)
Category:	B
Class: Function:	2 RHR Hx Discharge to RCS (HL).
runcuon.	KIK IX Discharge to Kes (IIL).
Quarterly Test Requirements:	Exercise and time (ISTC-3510 and 5121).
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 ≤ 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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-4

System: Valve:	LHSI/RHR (E11) Q1(2)E11V0009A, B
Other Valve No: Drawing: Category: Class:	8706A, B D-175041 (B-8, C-8) D-205041 (B-8, C-8) B 2
Function:	Charging Pump Suction from RHR Hx.
Quarterly Test Requirements:	Exercise and time (ISTC-3510 and 5121).
Cold Shutdown Test Justification:	These values can only be exercised when the RCS boron concentration is > 200 ppm because opening these values connects the RWST to the charging pumps suction. These values cannot be exercised at the end of core life when RCS boron concentration is \leq 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 value 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.
B.	Exercise and time at cold shutdown when quarterly testing cannot be performed because RCS boron concentration is ≤ 200 ppm per ISTC-3521(c).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-5

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COLD SHUTDOWN JUSTIFICATION CSJ-V-6

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:	Α
Class:	2
Function:	Letdown Orifice Isolation.
Quarterly Test Requirements:	Exercise, time and fail (ISTC-3510, 5131 and 3560).

Cold ShutdownThe 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 None, valves full-stroke on initiation and cannot be partial-stroke exercised. Stroke Exercising:

Cold Shutdown Exercise, time and fail per ISTC-3521(c). **Testing:**

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COLD SHUTDOWN JUSTIFICATION CSJ-V-7

System: Valve:	SI/CVCS (E21) Q1(2)E21V0210
Other Valve No: Drawing: Category: Class:	D-175039-6 (G-10) D-205039-2 (H-8) C 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 \geq 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.

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COLD SHUTDOWN JUSTIFICATION CSJ-V-8

System: Valve:	SI/CVCS (E21) Q1(2)E21V0254, Q1(2)E21V0257, Q1(2)E21V0258, Q1(2)E21V0565A, B
Other Valve No: Drawing: Category:	8152, 8107, 8108, 8175A, B 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 A (QV0254, QV0257, QV0258) B B (QV0565A, B) Q2V0254, Q2V0565A, B
Class: Function:	2 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 5121 (QV0257, QV0258). Exercise, time and fail per ISTC-3510, 5131, 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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-9

System: Valve:	SI/CVCS (E21) Q1(2)E21V0336A, B, Q1(2)E21V0376A, B
Other Valve No: Drawing: Category: Class: Function:	LCV115B, LCV115D, LCV115C, LCV115E 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) B 2 QV0336A, B - Charging Pump Suction from RWST. QV0376A, B - VCT Outlet Isolation.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-10

System: Valve:	SI/CVCS (E21) Q1(2)E21V0220A, B
Other Valve No: Drawing:	8114A, B 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.

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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:	В
Class:	2
Function:	Charging Pump Minimum Flow Common Line Isolation Valve.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
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: Valve:	Main Steam (N11) Q1(2)N11V0001A, B, C and Q1(2)N11V0002A, B, C
Other Valve No: Drawing:	HV3369A, B, C and HV3370A, B, C 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, 5131 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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-13

System: Valve:	Main Steam (N11) Q1(2)N11V0003A, B, C, D, E, and F
Other Valve No: Drawing: Category: Class: Function:	HV3368A, B, C, D, E and F 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) B 2 Main Steam Isolation Bypass.
Quarterly Test Requirements:	Exercise, time and fail per ISTC 3510, 5131 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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-14

System: Valve:	Feedwater (N21) Q1(2)N21V0001A, B, C
Other Valve No: Drawing:	MOV3232A, B, C D-175073 (G-7, E-7, B-7) D-205073 (G-7, E-7, B-7)
Category:	BC
Class: Function:	2 Main Feedwater Supply.
Quarterly Test Requirements:	Exercise and time per ISTC-3510 and 5121.
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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-15

System: Valve:	Auxiliary Feedwater (N23) 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: Drawing:	NA 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: Class: Function:	C 2 (QV0011A, B, C) 3 (QV0002A, B, C, D, E, F, G, H, QV0003, QV0006, QV0007A, B) 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.
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.
Quarterly Part Stroke Exercising:	NA
Cold Shutdown Testing:	Valves will be full-forward-flow exercised by injecting into the steam generators at cold shutdown 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.

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Those check valves that do not perform a safety function in the reverse direction will be bi-directionally exercised to their non-safety related, closed position during refueling outages by performing an individual pressure decay, flow type test or utilize other positive means for each valve.

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COLD SHUTDOWN JUSTIFICATION CSJ-V-16

System: Valve:	Auxiliary Feedwater (N23) Q1(2)N23V0002D, F, H
Other Valve No: Drawing:	NA D-175007 (C-9, F-9, H-9) D-205007 (C-9, F-9, H-9)
Category:	C
Class: Function:	3 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.

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COLD SHUTDOWN JUSTIFICATION CSJ-V-17

System: Valve:	Auxiliary Feedwater (N23) Q1(2)N23V0006, Q1(2)N23V0007A, B
Other Valve No: Drawing: Category: Class: Function:	NA D-175007 (H-3, B-3, E-3) D-205007 (H-3, B-3, E-3) C 3 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 value is capable of reverse flow closure.

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COLD SHUTDOWN JUSTIFICATION CSJ-V-18

System: Valve:	Containment Purge (P13) Q1(2)P13V0281, Q1(2)P13V0282, Q1(2)P13V0283, Q1(2)P13V0284	
Other Valve No: Drawing: Category: Class: Function:	HV3198D, HV3197, HV3196, HV3 D-175010-1 (G-10, E-10): D-175010-2 (F-3, D-3): D-205010-1 (G-9, E-9): D-205010-2 (F-3, D-3): A 2 QV0281, QV0282 - Purge Supply D QV0283, QV0284 - Purge Exhaust J	QV0282, & QV0283 QV0281 & QV0284 QV0282, & QV0283 QV0281 & QV0284
Quarterly Test Requirements:	Exercise, time, and fail per ISTC-351	10, 5131 and 3560.
Cold Shutdown Test Justification:	Plant Technical Specifications requi plant operating modes 1, 2, 3, and 4.	re maintaining these valves closed during
Quarterly Part Stroke Exercising:	None, valves are administratively ma	intained closed during normal operation.
Cold Shutdown Testing:	Exercise, time, and fail per ISTC-352	21(c).

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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:	В
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 5121.
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).

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COLD SHUTDOWN JUSTIFICATION CSJ-V-20

Valve:	Q1(2)P19V0004
Other Valve No: Drawing:	NA D-175034-1 (D-10) D-205034-4 (B-6)
System: Category:	Instrument Air (P19) AC
Class: Function:	2 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

<u>ROJ</u>	Component ID	<u>Status</u>
ROJ-V-1	Q1(2)B13V0038	
ROJ-V-2	Q1(2)B13V0054	
ROJ-V-3	Q1(2)E11V0042A & B	
ROJ-V-4	Q1(2)E11V0051A, B & C	
ROJ-V-5	Q1(2)E11V0021A, B & C	
ROJ-V-6	Q1(2)E11V0028	
ROJ-V-7	Q1(2)E13V0002A & B	
ROJ-V-8	Q1(2)E13V00014	
ROJ-V-9	Q1(2)E14V0001	
ROJ-V-10	Q1(2)E21V0026	
ROJ-V-11	Q1(2)E21V0052 Q1(2)E21V0058	
ROJ-V-12	Q1(2)E21V0119	
ROJ-V-13	Q1(2)E21V0062A, B & C Q1(2)E21V0066A, B & C Q1(2)E21V0078A, B & C Q1(2)E21V0079A, B & C	
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)E21V0077A, B & C	

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<u>ROJ</u>	Component ID
ROJ-V-19	Q1(2)E21V0032A, B & C Q1(2)E21V0037A, B & C
ROJ-V-20	Q1(2)E21V0213
ROJ-V-21	Q1(2)E21V0076A & B
ROJ-V-22	Q1(2)E21V0326A & B Q1(2)E21V0327A & B
ROJ-V-23	Q1(2)E21V0121A, B & C
ROJ-V-24	Q1(2)G21V0204
ROJ-V-25	Q1(2)G21V0291
ROJ-V-26	Q1(2)N12V0010A & B
ROJ-V-27	Q1(2)N23V0013A & B Q1(2)N23V0014A, B & C
ROJ-V-28	Q1(2)P16V0075
ROJ-V-29	Q1P16V0635A & B Q1P16V0636A & B Q2P16V0635B Q2P16V0636B
ROJ-V-30	Q1(2)P16V0206A, B, C & D
ROJ-V-31	Q1(2)P16V0659 Q1(2)P16V0660
ROJ-V-32	Q1(2)P16V0564 Q1(2)P16V0565
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

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<u>Status</u>

Version 1.0

<u>ROJ</u>	Component ID
ROJ-V-35	Q1(2)P17V0087A, B & C
ROJ-V-36	Q1(2)P17HV3067 Q1(2)P17HV3095 Q1(2)P17HV3443
ROJ-V-37	Q1(2)P17V0111
ROJ-V-38	Q1(2)P19V0002
ROJ-V-39	Q1(2)P19V0004
ROJ-V-40	Q1(2)P19HV3611

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ROJ-V-1

System: Reactor Coolant (B13)

Valve: Q1(2)B13V0038

Other Valve No: 8046

Drawing/Coord: D-175037-2 (B-10) D-205037-2 (B-10)

AC

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Category:

Class:

Function: Reactor Makeup Water to PRT Isolation Check Valve

Verify reverse flow closure per ISTC-3510 and 5221.

Quarterly Test Requirements:

Basis for

This check valve is located inside the containment and any method to Justification: confirm closure would require a containment entry. The only practical way of verifying valve closure is by performing a leakage type test, such as the Appendix J, Type C test. The Type C test requires isolating reactor makeup water to the PRT spray nozzles, and to the reactor coolant pump(s) seal #3. The potential for relief valve discharge into the PRT exists during cold shutdown and the condensing effect of the RMW spray into the PRT may be required to condense any vaporization of the relief valve discharge. Also, at least one of the reactor coolant pumps is required to be in service during cold shutdown for chemistry control purposes, thus requiring seal water. These factors make testing during cold shutdown impractical. In addition, NRC NUREG 1482, Rev. 1 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 Reverse flow closure will be verified by an Appendix J, Type C test, other Outage seat leakage testing similar to the Type C test, or other positive means. The **Testing:** 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. 1, Section 4.1.6. Bi-directional exercising in the non-safety related forward direction will be satisfied by normal system operation.

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ROJ-V-2

System: Reactor Coolant (B13) Valve: Q1(2)B13V0054 **Other Valve No:** 8092 D-175037-2 (C-6) Drawing/Coord: D-205037-2 (C-6) Category: AC 2 **Class: Function:** CVCS Charging Pump Relief Valve Discharge to PRT **Quarterly Test** Full forward-flow exercise and verify reverse flow closure per ISTC-3510 **Requirements:** and 5221. **Basis** for This check valve is located in the CVCS charging and RHR pump relief Justification: valve discharge header. The header routes discharge from the relief valves to the PRT. Quarterly verification of reverse flow closure of this valve is not practicable because it is located inside containment and is not equipped with any instrumentation to allow confirmation of position. Verification of forward flow operability is not possible because there is no installed instrumentation or other positive means to make this determination at any plant condition. The only practical way of verifying valve closure is by performing a seat leakage type test, such as the Appendix J, Type C test. The Type C test for this valve requires the removal of a spool piece from the common relief valve discharge line and the installation of a blind flange. This activity would be unsafe while the systems protected by the relief valves were in service. These relief valves include those protecting the RHR system,

which is in service during cold shutdown conditions. These factors make testing during cold shutdown impractical. In addition, the NRC in NUREG 1482, Rev. 1, 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.

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ROJ-V-2 (continued)

Refueling Outage Testing:

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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. 1, Section 4.1.6.

Forward flow operability will be determined during refueling outage by disassembly and manually full stroking the valve per ISTC-5221(c). The valve will be part-stroke exercised in the forward direction subsequent to reassembly, if practicable.

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ROJ-V-3

LHSI/RHR (E11) System: 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) AC **Category:** 2 **Class: Function: RHR** Pump Discharge to SIS Injection CL Verify reverse flow closure and full forward-flow exercise per ISTC-3510 **Ouarterly Test Requirements:** and 5221. **Basis for** Ouarterly verification of reverse flow closure is not practicable because the valves are located inside the containment, they are not equipped with any Justification: 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. 1, 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 Reverse flow closure will be verified in conjunction with the PIV leakage Outage testing in accordance with the Technical Specification surveillance **Testing:** requirement. This testing is consistent with the guidance found in NUREG-1482, Rev. 1, Section 4.1.6. Valves will be full-forward flow exercised each refueling outage.

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ROJ-V-4

LHSI/RHR (E11) System: Valve: Q1(2)E11V0051A, B, C **Other Valve No:** 8998A, B, C Drawing/Coord: D-175038-1 (C-2, D-2, D-2) D-205038-1 (C-2, D-2, D-2) С **Category: Class:** 1 **RCS Loop LHSI CL Function: Quarterly Test** Full forward-flow operational readiness per ISTC-3510 and 5221. **Requirements: Basis** for These 6 inch Velan swing check valves are located in the shared, high **Justification:** head/low head, safety injection lines to the RCS cold legs. The more conservative flow path testing for these valves is via the low head safety injection lines. Individual line flow rate cannot be utilized to verify individual valve full-flow exercising quarterly, or at cold shutdown because there is not installed flow instrumentation when testing via the low head safety injection lines. Confirmation of full-stroke exercise will be by nonintrusive check valve testing technology or valve disassembly. This test can only be performed at refueling with the RCS depressurized. Refueling Valves will be full-forward flow exercised using nonintrusive testing each Outage Alternately, the check valve(s) may be disassembled and refueling. manually full stroked, on a sampling basis per ISTC-5221(c), during the **Testing:** refueling outage to verify operability. Partial stroking after reassembly is

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not practical for the reasons stated above.

ROJ-V-5

System: LHSI/RHR (E11)

Valve: Q1(2)E11V0021A, B, C

Other Valve No: 8973A, B, C

Drawing/Coord: D-175038-2 (E-1, F-1, G-1) D-205038-2 (E-1, F-1, G-1)

AC

1

Category:

Class:

Function: RHR Pump Discharge to SI (CL)

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

Basis for Justification: These 6 inch Velan swing check valves are located in the LHSI paths to the RCS cold legs. The more conservative flow path testing for these valves is via the low head safety injection lines. Individual line flow rate cannot be utilized to verify individual valve full-flow exercising quarterly, or at cold shutdown because there is not installed flow instrumentation when testing via the low head safety injection lines. Confirmation of full-stroke exercise will be by nonintrusive check valve testing technology or valve disassembly. This test can only be performed at refueling with the RCS depressurized.

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. 1, 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.

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ROJ-V-5 (continued)

Refueling Outage Testing: Valves will be full-forward flow exercised using nonintrusive testing each refueling outage. Alternately, the check valve(s) may be disassembled and manually full stroked, on a sampling basis per ISTC-5221(c), during the refueling outage to verify operability.

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, Section, Rev. 1, Section 4.1.6. Partial stroking after reassembly is not practical for the reasons stated above.

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ROJ-V-6

LHSI/RHR (E11) System: Valve: Q1(2)E11V0028 8958 **Other Valve No:** Drawing/Coord: D-175038-2 (F-11) D-205038-2 (F-11) С **Category:** 2 **Class:** Function: LHSI/RHR Pump Suction from RWST Verify reverse flow closure capability in accordance with ISTC-3510 and **Quarterly Test Requirements:** 5221. **Basis for** There are no system design provisions to allow closure verification for Justification: 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. 1, Section 4.1.6, states that the need to set up leakage type test equipment is adequate

RefuelingReverse flow closure of QV0028 will be verified by a pressure decay or flowOutagetype test, or other positive means during refueling outages when the RHRTesting:system is not required to be operable.

justification to defer backflow testing of a check valve until a refueling

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ROJ-V-7

System: Containment Spray (E13) Valve: Q1(2)E13V0002A, B **Other Valve No:** 8822A, B Drawing/Coord: D-175038-3 (C-2) D-205038-3 (C-2) С **Category:** 2 **Class: Function:** Containment Spray Pump Discharge **Quarterly Test** Verify forward flow operational readiness and reverse flow closure **Requirements:** capability in accordance with ISTC-3510 and 5221. **Basis for** The only way to verify forward-flow operability during normal operation or **Justification:** cold shutdown would be by using the pumps and injecting a large quantity of water into the containment. Spraying the containment would result in extensive damage to safety-related equipment located inside the containment. Quarterly verification of reverse flow closure for QV0002A, B is not practicable because the valves are located inside containment, they are not equipped with any instrumentation to allow closure verification, and any testing would require personnel entry into the containment. Refueling Full forward-flow exercise will be proven with the CPT during each Outage refueling outage. Reverse flow closure will be verified by a leakage test **Testing:** similar to the Type C test, or other positive means, during each refueling outage.

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ROJ-V-8

System: Containment Spray (E13)

Valve: Q1(2)E13V0014

Other Valve No: 8816

Drawing/Coord: D-175038-3 (E-10) D-205038-3 (E-10)

С

2

Category:

Class:

Function: Containment Spray Pump Suction from RWST

Quarterly TestVerify forward flow operational readiness and reverse flow closureRequirements:capability in accordance with ISTC-3510 and 5221.

Basis for Justification: The only way to verify forward-flow operability during normal operation or cold shutdown would be by using the pumps and injecting a large quantity of water into the containment. Spraying the containment would result in extensive damage to safety-related equipment located inside the containment.

There are no system design provisions to allow closure verification for QV0014. Nonintrusive techniques cannot be successfully employed to test this valve. This valve is located in the 12" Containment Spray (CS) pump suction line from the Refueling Water Storage Tank (RWST). The only normal water flow through this valve is approximately 150 gpm during quarterly CS pump testing. SNC engineers experienced with nonintrusive check valve testing indicate that this application will not be successful because the 12" check valve will not fully open with 150 gpm flow.

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 CS system inoperable for an extended period of time. In addition, NRC NUREG-1482, Rev. 1, 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.

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ROJ-V-8 (continued)

Refueling Outage Testing:

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Both units have been modified such that spool pieces can be installed downstream of check valves QV0002A and QV0002B. During refueling, these spool pieces will be installed and a full-forward-flow test performed by pumping water through these full-flow test lines to the containment refueling cavity. Because of the time involved in installing the spool pieces and the large quantity of water necessary, this test can only be performed at refueling.

Reverse flow closure of QV0014 will be verified by a pressure decay or flow type test, valve disassembly, or other positive means.

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ROJ-V-9

System:	Containment Cooling & Purge (E14)
Valve:	Q1(2)E14V0001
Other Valve No:	NA
Drawing/Coord:	D-175010-2 (A-2) D-205010-2 (A-2)
Category:	AC
Class:	2
Function:	CTMT Air Sample Check Valve
Quarterly Test Requirements:	Verify reverse-flow closure per ISTC-3510 and 5221.
Basis for Justification:	Quarterly verification of reverse flow closure is not practicable because the valve is located inside containment, is not equipped with any instrumentation to allow closure verification, and any testing 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 this valve requires removal of the containment air sampler from service and the installation of a blind flange downstream of the valve inside the containment. The air sampler is required to be in operation during cold shutdown conditions. Therefore, testing during cold shutdown is impractical. In addition, NRC NUREG-1482, Rev. 1, 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. 1, Section 4.1.6.

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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) С **Category:** 2 **Class: Function: RWST to Charging Pump Suction Check Valve** Verify forward flow operational readiness and reverse flow closure **Quarterly Test Requirements:** capability per ISTC-3510 and 5221. **Basis for** The only practical method of full flow exercising this valve is by aligning the Justification: 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. 1, 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 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 Outage **Testing:** other positive means.

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ROJ-V-11

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0052, Q1(2)E21V0058
Other Valve No:	8861, 8947
Drawing/Coord:	D-175038-2 (D-9, A-10) D-205038-2 (D-9, A-10)
Category:	AC
Class: Function:	2 QV0052 - SIS Accum. Fill QV0058 - Nitrogen Supply to Accumulator Tanks
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Basis for Justification:	Quarterly verification of reverse flow closure is not practicable because the valve is located inside containment, is not equipped with any instrumentation to allow closure verification, and any testing 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. NRC NUREG-1482, Rev. 1, 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. 1, Section 4.1.6. Bi-directional exercising in the non-safety related open direction will be satisfied by normal system operation.

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System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0119
Other Valve No:	8381
Drawing/Coord:	D-175039-1 (B-11) D-205039-1 (B-11)
Category:	AC
Class:	2
Function:	CVCS Charging Pump Discharge to Regenerative Hx
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Basis for Justification:	Quarterly verification of reverse flow closure is not practicable because charging water flow is required during normal operation. Additionally, the valve is located inside containment, is not equipped with any instrumentation to allow closure verification, and any testing 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. NRC NUREG-1482, Rev. 1, 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. 1, Section 4.1.6.

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ROJ-V-13

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0062A,B,C / Q1(2)E21V0066A,B,C / Q1(2)E21V0078A,B,C / Q1(2)E21V0079A,B,C
Other Valve No:	8997A,B,C / 8995A,B,C / 8990A,B,C / 8992A,B,C
Drawing/Coord:	D-175038-1 (E-3, E-3, F-3 / A-4, B-4, C-4 / G-3, G-3, G-3, G-3, G-3, G-2, G-2) D-205038-1 (E-3, E-3, F-3 / A-4, B-4, C-4 / G-3, G-3, G-3, G-3, G-3, G-2, G-2)
Category:	C
Class:	1
Function:	QV0062A,B,C - HHSI to RCS CL QV0066A,B,C - Charging (HHSI) Pump Discharge to RCS (CL) QV0078A,B,C - HHSI Pumps Discharge to RCS Loops (HL) QV0079A,B,C - HHSI Pumps Discharge to RCS Loops (HL)
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Basis for Justification:	It is impractical to full-stroke any of these check valves with flow 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 full-stroke 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. In addition, initiating flow through valve QV0078A,B,C and QV0079A,B,C would also disturb RCS pressure isolation valves leading to further technical specification required testing.

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ROJ-V-13 (continued)

Refueling Outage Testing: Valves will be full-stroke exercised with flow during each refueling outage. Either permanently installed or removable instrumentation will be utilized to confirm check valve exercising. Confirmation of full-stroke exercising will be either by flow measurement or by the use of nonintrusive check valve testing technology.

Bi-directional exercising in the non-safety related reverse direction will be demonstrated by the ability to establish differential pressure across the valve disc or other positive means.

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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:	В
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.

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ROJ-V-15

SI/CVCS (E21) System: Valve: Q1(2)E21V0115A,B,C **Other Valve No:** 8368A,B,C D-175039-1 (G-2 for all) Drawing/Coord: D-205039-1 (G-2 for all) **Category:** С **Class:** 2 Function: CVCS Seal Injection to RCP Verify reverse flow closure per ISTC-3510 and 5221. **Quarterly Test Requirements: Basis for** Reverse flow closure testing requires isolation of seal injection flow to the Justification: 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 Reverse flow closure will be confirmed by a pressure decay type test or leak Outage test (similar to Appendix J, Type C test) at each refueling outage. This type **Testing:** 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. 1, Section 4.1.6.

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ROJ-V-16

SI/CVCS (E21) System: 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) С **Category: Class:** 2 Function: **Charging Pump Discharge** Verify forward-flow operational readiness per ISTC-3510 and 5221. **Ouarterly Test Requirements:** Charging flow during normal operation is automatically controlled by **Basis for** Justification: 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 Verification of full forward flow operational readiness will be performed Outage each refueling outage. **Testing:**

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ROJ-V-17

SI/CVCS (E21) System: 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: Α Class: 2 **Function:** RCP Seal to Seal Water Hx Exercise and time per ISTC-3510 and 5121. **Quarterly Test Requirements: Basis for** Exercising these valves during normal operation or at cold shutdown results Justification: 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 Partial exercising is precluded for the same reasons stated above. **Stroke Testing:** Refueling Exercise and time at refueling outages when the RCS is vented or open to the Outage atmosphere. **Testing:**

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ROJ-V-18

System: SI/CVCS (E21)

Valve: Q1(2)E21V0077A,B,C

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Other Valve No: 8993A,B,C

Drawing/Coord: D-175038-1 (F-2, G-2, G-1) D-205038-1 (F-2, G-2, G-2)

Category: AC

Class:

Function: HHSI/LHSI and RHR to RCS HL

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

Basis for These 6 inch Velan swing check valves are located inside the containment on the safety injection lines to the RCS hot legs. The valves cannot be full-Justification: forward flow exercised quarterly or at cold shutdown because the individual injection lines are not equipped with flow measuring instrumentation. Individual injection line flow rate can be measured for QV0077C in conjunction with the ECCS Branch Line flow conducted during each refueling outage. This test requires considerable test setup time and requires that the vessel head be removed to prevent possible overpressurization with a solid RCS. This test is only a partial flow test for valves QV0077A, B because these valves are also located in the LHSI flow Full-forward flow for QV0077A, B can only be verified using path. nonintrusive testing or valve sample disassembly each refueling. This test can only be performed at refueling with the RCS depressurized.

> These valves are located inside the containment and are not equipped with any instrumentation that can be utilized to verify 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. These are PIVs and are required to be leak tested per Tech Specs. NRC NUREG-1482, Rev. 1, 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.

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ROJ-V-18 (continued)

Refueling Outage Testing: Valve QV0077C will be full-forward flow exercised in conjunction with the ECCS Branch Line flow test which is performed each refueling outage. Valves QV0077A, B will be full forward flow exercised using nonintrusive testing each refueling. Alternately, the check valve(s) may be disassembled and manually full stroked on a sampling basis during the refueling outage to verify operability per ISTC-5221(c). Partial stroking after reassembly is not practical for the reasons stated above.

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. 1, Section 4.1.6.

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ROJ-V-19

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0032A,B,C And Q1(2)E21V0037A,B,C
Other Valve No:	8948A,B,C And 8956A,B,C
Drawing/Coord:	D-175038-2 (D-2, D-2, E-1 And D-3, D-6, D-8) D-205038-2 (D-2, D-2, E-2 And D-3, D-6, D-8)
Category:	AC
Class:	1
Function:	Accumulator Tank Discharge to RCS (CL) Check Valves
Quarterly Test Requirements:	Verify forward flow operational readiness and reverse flow closure capability per ISTC-3510 and 5221.
Basis for Justification:	The Safety Injection System (SIS) accumulator tanks are isolated from the Reactor Coolant System (RCS) by these normally closed check valves. Each accumulator is charged with a nitrogen blanket from 601 to 649 psig. This pressure is insufficient during normal operation to inject into the RCS. If these valves were to be full exercised at cold shutdown, the contents of the tank would be dumped into the RCS at the charge pressure of 601 to 649 psig, which could result in overpressurization of the RHR suction lines, resulting in lifting the RHR suction relief valves. The valves cannot be full-forward flow exercised quarterly or at cold shutdown because the individual lines are not equipped with flow measuring instrumentation. Full-forward flow can only be verified by observation of indirect evidence (such as changes in system pressure, flow, temperature, or level) or other positive means. This testing can only be performed at refueling with the RCS depressurized.

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. 1, 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.

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ROJ-V-19 (continued)

Refueling Outage Testing: Forward flow testing will be verified by the L/D value(s) for the check valves and piping configurations are within acceptable limits, or verifying full open stroke by flow utilizing nonintrusive check valve diagnostic equipment. Alternately, the check valve(s) may be disassembled on a sampling basis per ISTC-5221(c) during refueling outage to verify operability. Partial stroking after reassembly is not practical for the same reasons stated above.

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. 1, Section 4.1.6.

ROJ-V-20

System: SI/CVCS (E21)

Valve: Q1(2)E21V0213

Other Valve No: 8103

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Drawing/Coord: D-175039-1 (D-11) D-205039-1 (D-11)

Category: AC

Class: 2

Function: RCP Seal to Seal Water Hx

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 QV0249A and QV0249B (Pen. 28) to provide over pressure protection should the RCP seal water return 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 only practical way of verifying valve closure is by performing a seat leakage type test such as the Appendix J, Type C test. The Type C test for these valves requires isolation of seal water to all three Reactor Coolant Pump seals. At least one of these pumps is in service during cold shutdown. This factor makes forward or reverse flow testing during cold shutdown impractical. In addition, the NRC, in NUREG 1482, Rev. 1, 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 forward 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.

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ROJ-V-20 (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. 1, Section 4.1.6.

Valve QV0213 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.

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ROJ-V-21

System: SI/CVCS (E21)

Valve: Q1(2)E21V0076A,B

Other Valve No: 8988A,B Drawing/Coord: D-175038-1 (F-4, G-4) D-205038-1 (F-4, G-4)

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Category: AC

Class:

Function: Water from Residual Hx to SI to RCS

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

Basis for Justification: These values are located inside the containment and are 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. Confirmation of full-stroke exercise will be by nonintrusive check value testing technology or value sample disassembly. This test can only be performed at refueling with the RCS depressurized.

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. 1, 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.

RefuelingValves will be full-forward flow exercised using nonintrusive testing eachOutagerefueling.Alternately, the check valve(s) may be disassembled andTesting:manually full stroked on a sampling basis per ISTC-05221(c) during the
refueling outage to verify operability. Partial stroking after reassembly is
not practical for the reasons stated above.

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. 1, Section 4.1.6.

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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:	В
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.

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ROJ-V-23

System:	SI/CVCS (E21)
Valve:	Q1(2)E21V0121A, B, C
Other Valve No:	8480A,B,C
Drawing/Coord:	D-175039-6 (F-4, G-4, H-4) D-205039-6 (F-4, G-4, H-4)
Category:	C
Class:	2
Function:	Charging Pump Minimum Flow Line Check Valves
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Basis for Justification:	The valves cannot be full-forward flow exercised quarterly, cold shutdown or during refueling outages because the charging pump minimum flow lines are not equipped with flow measuring instrumentation. Full-stroke exercising in the forward direction can only be verified by disassembly and inspection. This activity can only be performed during refueling outages when the charging pumps can be removed from service.
Refueling Outage Testing:	The check valves shall be disassembled and inspected on a sampling basis per ISTC-5221(c) during refueling outages to verify full opening capability. The valves will be part-stroke exercised in the forward direction subsequent to reassembly.

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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 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. 1, 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.

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ROJ-V-24 (continued)

Refueling Outage Testing:

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> 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. 1, 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.

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ROJ-V-25

System: Liquid Waste Disposal (G21)

Valve: Q1(2)G21V0291

Other Valve No: NA

Drawing/Coord: D-175004-1 (H-8) D-205004-1 (H-8)

AC

Category:

Class: 2

Function: Containment Sump Pump Discharge

Quarterly Test 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. 1, 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. 1, 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.

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ROJ-V-26

System:	Auxiliary Steam (N12)
Valve:	Q1(2)N12V0010A, B
Other Valve No:	NA
Drawing/Coord:	D-175033-2 (E-6, C-6) D-205033-2 (E-6, C-6)
Category:	C
Class:	2
Function:	Main Steam to TDAFW Pump Turbine Check Valves
Quarterly Test Requirements:	Verify reverse flow closure capability per ISTC-3510 and 5221.
Basis for Justification:	The valves cannot be full-stroke exercised in the reverse direction quarterly, cold shutdown or during refueling due to the lack of upstream test connections or pressure instrumentation. Full-stroke exercising in the reverse direction can only be verified by disassembly and inspection. This activity can only be performed during refueling outages when the steam supply lines from the steam generators can be isolated and the TDAFW pump can be removed from service.
Refueling Outage Testing:	The check valves shall be disassembled and inspected on a sampling basis per ISTC-5221(c) during refueling outages to verify full opening and closure capability. The valves will be part-stroke exercised in the forward direction subsequent to reassembly.

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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:	В
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.

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System:	Service Water (P16)
Valve:	Q1(2)P16V0075
Other Valve No:	NA
Drawing/Coord:	D-175003-2 (B-9) D-205003-2 (B-9)
Category:	AC
Class:	2
Function:	Service Water to RCP Motor Coolers
Quarterly Test Requirements:	Verify reverse-flow closure per ISTC-3510 and 5221.
Basis for Justification:	This check valve is located inside containment and is not equipped with any instrumentation that can be utilized to verify reverse flow closure. Any practical test method would require personnel entry into the containment.
	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 Type C test for this valve requires the complete isolation of service water to all Reactor Coolant pump motor air coolers. At least one of the pumps is in service during cold shutdowns. The resulting additional heat input into containment, especially during the summer months, would cause habitability concerns during containment entry. This factor makes testing during cold shutdown impractical. In addition, the NRC, in NUREG 1482, Rev. 1, 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.
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. 1, Section 4.1.6. Bidirectional exercising in the non-safety related open direction is satisfied by normal system operation.

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ROJ-V-29

System:	Service Water (P16)
Valve:	Q1P16V0635A,B and Q1P16V0636A,B Q2P16V0635B and Q2P16V0636B
Other Valve No:	NA
Drawing/Coord:	D-175013 (E-2, E-11, E-2, E-11) D-200014 (D-9 and D-9)
Category:	С
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 values 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.

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ROJ-V-30

System:	Service Water (P16)
Valve:	Q1(2)P16V0206A, B, C, D
Other Valve No:	NA
Drawing/Coord:	D-175003-1 (E-2, E-11, E-2, E-11) D-205003-1 (A-7, C-7, E-7, F-7)
Category:	C
Class:	2
Function:	SW to CTMT Coolers Check Valves
Quarterly Test Requirements:	Verify reverse-flow closure per ISTC-3510 and 5221.
Basis for Justification:	These check valves are located inside containment and are not equipped with any instrumentation that can be utilized to verify reverse flow closure quarterly, at cold shutdown or refueling outage. Nonintrusive techniques cannot be successfully employed to test this valve.
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 internal 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, or other positive means, or through the use of ultrasonic (or similar) flow measuring devices.

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ROJ-V-31

System:	Service Water (P16)
Valve:	Q1(2)P16V0659, Q1(2)P16V0660
Other Valve No:	NA
Drawing/Coord:	D-170119-3 (C-3, C-8) D-200013-3 (C-3, C-10)
Category:	C
Class:	3
Function:	Unit 1 Service Water Supply to Diesel Generator 2C and 1C Check Valves Unit 2 Service Water Supply to Diesel Generator 2C and 1C Check Valves
Quarterly Test Requirements:	Verify reverse flow closure capability per ISTC-3510 and 5221.
Basis for Justification:	The valves cannot be full-stroke exercised in the reverse direction quarterly, cold shutdown or during refueling due to the lack of upstream test connections or pressure instrumentation. Full-stroke exercising in the reverse direction can only be verified by disassembly and inspection. This activity can only be performed during refueling outages, when service water can be isolated, and the associated diesel generator is not required to be in standby.
Refueling Outage Testing:	The check valves shall be disassembled and inspected on a sampling basis per ISTC-5221(c) during refueling outages to verify full opening and closure capability. The valves will be part-stroke exercised in the forward direction subsequent to reassembly.

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ROJ-V-32

System:	Service Water (P16)
Valve:	Q1(2)P16V0564, Q(2)1P16V0565
Other Valve No:	NA
Drawing/Coord:	D-170119-3 (G-2) D-200013-3 (G-2)
Category:	C
Class:	3
Function:	Unit 1 Diesel Generator Service Water Train Return Check Valves Unit 2 Diesel Generator Service Water Train Return Check Valves
Quarterly Test Requirements:	Verify forward flow operational readiness per ISTC-3510 and 5221.
Basis for Justification:	The valves cannot be full-stroke exercised with flow in the forward direction quarterly, cold shutdown or during refueling due to the lack of flow measuring instrumentation in the service water return headers. Full- stroke exercising in the forward direction can only be verified by disassembly and inspection. This activity can only be performed during refueling outages, when service water can be isolated, and the associated diesel generators are not required to be in standby.
Refueling Outage Testing:	The check valves shall be disassembled and inspected on a sampling basis per ISTC-5221(c) during refueling outages to verify full opening and closure capability. The valves will be part-stroke exercised in the forward direction subsequent to reassembly.

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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 $\geq 200^{\circ}$ F. In addition, plant operating procedures require at least one RCP to be in operation when RCS temperatures are $> 160^{\circ}$ 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. 1, Section 3.1.1.4.

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ROJ-V-34

System:	Component Cooling Water (P17)
Valve:	Q1(2)P17V0083, Q1(2)P17V0159
Other Valve No:	NA
Drawing/Coord:	D-175002-2 (C-2, E-2) D-205002-2 (C-2, E-2)
Category:	AC
Class:	2
Function:	QV0083 - CCW to RCP QV0159 - CCW Supply to Excess Letdown HX
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Basis for Justification:	These values are located inside the containment and are 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 seat leakage type test such as the Appendix J, Type C test. Type C testing for these valves requires the complete isolation of component cooling water to the RCP thermal barriers and the Excess Letdown Hx and the RCDT Hx, which is not practical during normal plant operation. These components are required to remain inservice during cold shutdown, thus testing during cold shutdown is also impractical. In addition, NRC NUREG-1482, Rev. 1, 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. 1, Section 4.1.6. Bidirectional exercising in the non-safety open direction will be satisfied by normal system operation.

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Version 1.0

ROJ-V-35

System:	Component Cooling Water (P17)
Valve:	Q1(2)P17V0087A,B,C
Other Valve No:	NA
Drawing/Coord:	D-175002-2 (B-3 C-3, D-3) D-205002-2 (B-3 C-3, D-3)
Category:	C
Class:	3
Function:	CCW Inlet to RCP Thermal Barrier Check Valve
Quarterly Test Requirements:	Verify reverse flow closure per ISTC-3510 and 5221.
Basis for Justification:	The only way to verify reverse flow closure of these valves requires isolating CCW flow to the RCPs, at least one of which is required to be operated during cold shutdown. Personnel entry into the containment and the RCP cubicle is required to locally measure backflow leakage. Personnel entry into containment is strictly regulated by Plant procedures during normal operation and at cold shutdown.
Refueling Outage Testing:	During each refueling outage, CCW flow to the RCPs will be isolated and reverse flow closure will be verified by measuring backflow leakage. Alternately, the check valve(s) may be disassembled and manually full stroked on a sampling basis per ISTC-5221(c) during the refueling outage to verify operability. Bi-directional exercising in the non-safety open direction will be satisfied by normal system operation. If disassembled, the valves will be part-stroke exercised in the open direction subsequent to reassembly.

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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.

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ROJ-V-37

System:	Component Cooling Water (P17)
Valve:	Q1(2)P17V0111
Other Valve No:	NA
Drawing/Coord:	D-175002-1/ E-1 D-205002-2/ E-1
Category:	C
Class:	3
Function:	CCW Pump Suction Check Valve
Quarterly Test Requirements:	Verify reverse flow closure capability in accordance with ISTC-3510 and 5221.
Basis for Justification:	This check valve is located in the miscellaneous equipment return header to the CCW pump suction. There are no system design provisions to allow closure verification for QV0111 when CCW is in service. The only practical method to verify valve closure is by performing a reverse flow test or pressure decay type test utilizing leakrate type test equipment. Performing this type test is impractical during normal operation since it would require isolation of cooling water return flow from miscellaneous equipment or removal of the entire CCW system from service for an extended period of time. In addition, NRC NUREG-1482, Rev. 1, 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 QV0111 will be verified by pressure decay or a flow type test, or other positive means during refueling outages when the CCW system is not required to be operable.
	Bi-directional exercising in the non-safety related open direction is satisfied by normal system operation.

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ROJ-V-38

System:	Instrument Air (P19)
Valve:	Q1(2)P19V0002
Other Valve No:	NA
Drawing/Coord:	D-175034-3 (E-3) D-205034-4 (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. 1, 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. 1, Section 4.1.6. Bidirectional exercising in the non-safety open direction will be satisfied by normal system operation.

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ROJ-V-39

System:	Instrument Air (P19)
Valve:	Q1(2)P19V0004
Other Valve No:	NA
Drawing/Coord:	D-175034-1 (D-10) 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. 1, 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. 1, Section 4.1.6.

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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.

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Joseph M. Farley Nuclear Plant – Units 1 and 2

Enclosure 2

Detailed Phase-in Schedule for FNP Units 1 & 2 Affected Procedures

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Procedure Number	Procedure Title	Update Completed By	Comprehensive Pump Test and Preservice Procedures Needed?
FNP-0-SOP-0.0	GENERAL INSTRUCTIONS TO OPERATIONS PERSONNEL	12/1/2007	
FNP-0-AP-57	INSERVICE INSPECTION AND TESTING OF ASME CODE CLASS 1. 2. AND 3 SYSTEMS	12/1/2007	
FNP-2-STP-628.21	WASTE PROCESSING SYSTEM PENETRATION 31 SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	2/29/2008	
FNP-2-STP-742	VERIFICATION OF RE-67 FLOW	2/29/2008	
FNP-2-STP-628.10	VERIFICATIO OF RELIEF VALVE (N2P19SV2228) SETPOINT FOR PORV AIR SUPPLY	2/29/2008	
FNP-2-STP-22.29	TURBINE DRIVEN AUXILIARY FEEDWATER CHECK VALVE REVERSE FLOW CLOSURE OPERABILITY	2/29/2008	
FNP-2-STP-22.13	TURBINE DRIVEN AUX, FEEDWATER PUMP CHECK VALVES FLOW VERIFICATION	2/29/2008	yes
FNP-2-STP-45.6	TURBINE BUILDING SERVICE WATER COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.6	TURBINE BUILDING SERVICE WATER COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-22.20	TDAFW PUMP STEAM ADMISSION VALVES AIR ACCUMULATOR TEST	2/29/2008	yes
FNP-2-STP-644.8	TDAFP STEAM SUPPLY CHECK VALVE (Q2N12VO10A, B) FULL STROKE TEST	2/29/2008	
FNP-2-STP-45.13	SGBD COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.13	SGBD COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-24.21B	SERVICE WATER PUMPS B TRAIN REMOTE SHUTDOWN CAPABILITY TEST (PUMP BREAKERS IN TEST)	2/29/2008	yes
FNP-2-STP-24.21A	SERVICE WATER PUMPS A TRAIN REMOTE SHUTDOWN CAPABILITY TEST (PUMP BREAKERS IN TEST)	2/29/2008	yes
FNP-1-STP-24,13	SERVICE WATER PUMP 2D AND 2E COLD SHUTDOWN/REFUELING INSERVICE TEST	2/29/2008	yes
FNP-2-STP-24.12	SERVICE WATER PUMP 2A, 2B, AND 2C COLD SHUTDOWN/REFUELING INSERVICE TEST	2/29/2008	yes
FNP-1-STP-24.12	SERVICE WATER PUMP 1A, 1B AND 1C COLD SHUTDOWN/REFUELING INSERVICE TEST	2/29/2008	yes
FNP-2-STP-24.11	SERVICE WATER CYCLONE SEPARATOR VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-45.12	SEAL RETURN AND B TRAIN ECCS MOV'S COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.12	SEAL RETURN AND B TRAIN ECCS MOV'S COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-40.0	SAFETY INJECTION WITH LOSS OF OFF-SITE POWER TEST	2/29/2008	
FNP-2-STP-628.0	RHR PUMP SUCTION SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	2/29/2008	yes
FNP-2-STP-628.14	RHR HEAT EXCHANGER TO CHARGING PUMP SUCTION SAFETY RELIEF VALVE SETPOINT AND SEAT TIGHTNESS TESTING	2/29/2008	yes
FNP-2-STP-628.1	RHR HEAT EXCHANGER DISCHARGE SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS TEST	2/29/2008	
FNP-2-STP-45.5	RHR COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.5	RHR COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-11.4	RHR B TRAIN CHECK VALVE FLOW TEST	2/29/2008	
FNP-2-STP-11.3	RHR A TRAIN CHECK VALVE FLOW TEST	2/29/2008	
FNP-2-STP-4.10	REVERSE FLOW TEST OF RWST TO CHARGING PUMP CHECK VALVE	2/29/2008	yes
FNP-2-STP-45.0	REFUELING VALVE INSERVICE TEST	2/29/2008	
FNP-2-STP-24.15	REFUELING OUTAGE B-TRAIN SERVICE WATER VALVES REMOTE POSITION INDICATION INSERVICE TEST	2/29/2008	
FNP-2-STP-24,14	REFUELING OUTAGE A-TRAIN SERVICE WATER VALVES REMOTE POSITION INDICATION INSERVICE TEST	2/29/2008	
FNP-2-STP-45.2	REACTOR VESSEL HEAD VENT VALVES OPERABILITY TEST	2/29/2008	
FNP-2-STP-628.20	REACTOR MAKEUP WATER SYSTEM PENETRATION 30 SAFETY RELIEF VALVE SET PRESSURE & SEAT TIGHTNESS TESTING	2/29/2008	
FNP-2-STP-158	REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVE LEAK TEST	2/29/2008	
FNP-2-STP-628.12	REACTOR COOLANT PUMP SEAL WATER RETURN SAFETY VALVE SETPOINT AND SEAT TIGHTNESS	2/29/2008	yes
FNP-2-STP-628.19	REACTOR COOLANT PUMP MOTOR COOLER SERVICE WATER SAFETY RELIEF VALVE SETPOINT AND	2/29/2008	yes
FNP-2-STP-8.1	RCS SEAL CONTROLLED LEAKAGE TEST (HCV-186 BYPASSED)	2/29/2008	
FNP-2-STP-8.0	RCP SEAL CONTROLLED LEAKAGE TEST	2/29/2008	
FNP-2-STP-604.1	PRESSURIZER SAFETY VALVE TESTING AT WYLE LABORATORIES	2/29/2008	
FNP-2-STP-604	PRESSURIZER SAFETY VALVE TEST	2/29/2008	
FNP-2-STP-168	NON-INTRUSIVE TESTING OF CHECK VALVES	2/29/2008	

Procedure Number	Procedure Title	Update Completed By	Comprehensive Pump Test and Preservice Procedures Needed?
FNP-2-STP-170	NON-INTRUSIVE FORWARD FLOW TESTING OF ACCUMULATOR DISCHARGE CHECK VALVES	2/29/2008	
FNP-2-STP-45.7	MSIV AND BYPASS VALVES INSERVICE TEST	2/29/2008	ĺ
FNP-2-STP-22.12	MOTOR DRIVEN AUX. FEEDWATER CHECK VALVES FLOW VERIFICATION	2/29/2008	
FNP-2-STP-47.1	MISCELLANEOUS SOLENOID VALVES REMOTE POSITION INDICATION INSERVICE TEST	2/29/2008	
FNP-1-STP-45.11	MISCELLANEOUS COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-45.11	MISCELLANEOUS COLD SHUTDOWN INSERVICE TEST	2/29/2008	
FNP-2-STP-608.1	MAIN STEAM SAFETY VALVE OPERATIONAL TEST BY FURMANITE	2/29/2008	
FNP-2-STP-608.0	MAIN STEAM SAFETY VALVE OPERATIONAL TEST	2/29/2008	
FNP-2-STP-46.0	MAIN FEEDWATER VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-45.10	MAIN FEEDWATER STOP VALVES COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.10	MAIN FEEDWATER STOP VALVES COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-627.1	LOCAL LEAK RATE TESTING OF THE CONTAINMENT PURGE SYSTEM	2/29/2008	
FNP-2-STP-627	LOCAL LEAK RATE TESTING OF CONTAINMENT PENETRATIONS	2/29/2008	
FNP-2-STP-628.11	LETDOWN ORIFICE OUTLET SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	2/29/2008	
FNP-2-STP-627.2	LEAK TESTING OF THE CONTAINMENT PURGE SYSTEM	2/29/2008	
FNP-2-STP-166	INSERVICE VALVE TESTING	2/29/2008	
FNP-2-STP-644.7	HHSI/CVCS ACCUMULATOR TANK DISCHARGE CHECK VALVE FULL STROKE TEST	2/29/2008	
FNP-2-STP-628.17	EXCESS LETDOWN AND RCDT HX'S COMPONENT COOLING WATER SAFETY RELIEF VALVE SETPOINT	2/29/2008	
FNP-2-STP-10.4	EMERGENCY BORATION VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-45.4	ECCS COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45,4	ECCS COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-40.8	ECCS BRANCH LINE FLOW VERIFICATION AND CHARGING PUMP LOW DISCHARGE HEAD FLOW TEST (SEAL INJECTION IN SERVICE)	2/29/2008	yes
FNP-2-STP-40.7	ECCS BRANCH LINE FLOW VERIFICATION AND CHARGING PUMP LOW DISCHARGE HEAD FLOW TEST	2/29/2008	yes
FNP-2-STP-644.2	DIESEL GENERATORS 12" SERVICE WATER CHECK VALVE FULL STROKE TEST AND INSPECTION	2/29/2008	
FNP-2-STP-628,9	DIESEL GENERATOR AIR RECEIVER RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	2/29/2008	
FNP-2-STP-644.11	DG SERVICE WATER SUPPLY CHECK VALVE FULL STROKE TEST & INSPECTION	2/29/2008	
FNP-2-STP-644.3	CYCLONE SEPARATOR CHECK VALVE FULL STROKE TEST	2/29/2008	
FNP-2-STP-45.1	CVCS COLD SHUTDOWN VALVES INSERVICE TEST	2/29/2008	
FNP-1-STP-45.1	CVCS COLD SHUT DOWN VALVES INSERVICE TEST	2/29/2008	
FNP-2-STP-628,16	CTMT SUMP DISCHARGE SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS TESTING	2/29/2008	
FNP-2-STP-640.1	CTMT SPRAY PUMP SUCTION FROM RWST CHECK VALVE FULL STROKE TEST	5/31/2008	yes
FNP-2-STP-640.0	CTMT SPRAY PUMP DISCHARGE CHECK VALVE Q2E13V002A & B FULL STROKE TEST	5/31/2008	yes
FNP-2-STP-628.15	CONTAINMENT COOLERS SERVICE WATER RETURN SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	5/31/2008	,
FNP-2-STP-644.15	CONTAINMENT COOLER SERVICE WATER SUPPLY CHECK VALVE FULL STROKE TEST AND INSPECTION	5/31/2008	
FNP-2-STP-628.8	COMPONENT COOLING WATER SURGE TANK VACUUM RELIEF OPERATIONAL TEST (02P17V263A, B)	5/31/2008	
FNP-2-STP-628.6	COMPONENT COOLING WATER SURGE TANK RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	5/31/2008	i
FNP-2-STP-628.18	COMPONENT COOLING WATER SUPPLY & RETURN TO RCPS SAFETY RELIEF VALVE SETPOINT	5/31/2008	
FNP-2-STP-628.7	COMPONENT COOLING WATER RHR HEAT EXCHANGER RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	5/31/2008	
FNP-2-STP-644.14	CHARGING PUMP RELIEF VALVE DISCHARGE TO PRT CHECK VALVE FULL STROKE TEST	5/31/2008	yes
FNP-2-STP-644.0	CHARGING PUMP MINIMUM FLOW LINE CHECK VALVE FULL FLOW STROKE TEST	5/31/2008	yes
FNP-2-STP-23.12	CCW TO RCP THERMAL BARRIER CHECK VALVES REVERSE FLOW TEST	5/31/2008	/
FNP-2-STP-45.9	CCW COLD SHUTDOWN VALVES INSERVICE TEST	5/31/2008	-
FNP-1-STP-45.9	CCW COLD SHUTDOWN VALVES INSERVICE TEST	5/31/2008	
FNP-2-STP-2.5	BORIC ACID TRANSFER PUMP OPERABILITY TEST COLD SHUT DOWN	5/31/2008	yes
FNP-1-STP-2.5	BORIC ACID TRANSFER PUMP OPERABILITY TEST COLD SHUT DOWN	5/31/2008	yes
FNP-2-STP-628.5	AUXILIARY FEEDWATER PUMP SUCTION LINE RELIEF VALVE OPERATIONAL TEST	5/31/2008	yes
FNP-2-STP-22.26	AUXILIARY FEEDWATER PUMP 2A COLD SHUTDOWN INSERVICE TEST	5/31/2008	yes

Procedure Number	Procedure Title	Update Completed By	Comprehe Pump Tes Preserv Procedu Neede
FNP-1-STP-22.27	AUXILIARY FEEDWATER PUMP 1B COLD SHUTDOWN INSERVICE TEST	5/31/2008	yes
FNP-1-STP-22.26	AUXILIARY FEEDWATER PUMP 1A COLD SHUTDOWN INSERVICES TEST	5/31/2008	yes
	AUX FEEDWATER PUMP SUCTION CHECK VALVES REVERSE FLOW CLOSURE OPERABILITY TEST	5/31/2008	yes
FNP-2-STP-22.27	AUX FEEDWATER PUMP 2B COLD SHUTDOWN INSERVICE TEST	5/31/2008	ves
FNP-2-STP-32,1	ACCUMULATOR DISCHARGE CHECK VALVES LEAKAGE TEST	5/31/2008	
FNP-1-STP-32,1	ACCUMULATOR DISCHARGE CHECK VALVES LEAKAGE TEST	5/31/2008	
FNP-2-STP-24.13	1C, 1D AND 1E SERVICE WATER PUMPS COLD SHUTDOWN/REFUELING INSERVICE TEST	5/31/2008	yes
FNP-2-STP-644,12	1-2A DIESEL GENERATOR SERVICE WATER SUPPLY CHECK VALVE FULL STROKE TEST AND INSP	5/31/2008	
FNP-0-GMP-27.2 (PM TASK)	DISASSEMBLY, INSPECTION, REPAIR AND REASSEMBLY OF SAFETY RELATED AND NON-SAFETY RELATED CHECK VALVES	5/31/2008	
FNP-0-STP-154,1	1-2A DIESEL GENERATOR AIR DRYER OPERABILITY VERIFICATION	5/31/2008	
FNP-0-STP-154.2	1C DIESEL GENERATOR AIR DRYER OPERABILITY VERIFICATION	5/31/2008	
	2C DIESEL GENERATOR AIR DRYER OPERABILITY VERIFICATION	5/31/2008	
	DIESEL GENERATOR SERVICE WATER VALVES REMOTE POSITION INDICATION INSERVICE TEST	5/31/2008	
	RIVER WATER PUMPS 1 2 3 4 AND 5 INSERVICE TEST	5/31/2008	yes
	RIVER WATER PUMPS 6 7 8 9 AND 10 INSERVICE TEST	5/31/2008	ves
	RIVER WATER DISCHARGE VALVE INSERVICE TEST	5/31/2008	
	CONTROL ROOM VENTILATION VALVE INSERVICE TEST	5/31/2008	
	CONTROL ROOM PRESSURIZATION-FILTRATION OPERABILITY TEST	5/31/2008	
	DG 1-2A OPERABILITY TEST	5/31/2008	
	DIESEL GENERATOR 2C OPERABILITY TEST	5/31/2008	
	DIESEL GENERATOR 2C OPERABILITY TEST	5/31/2008	
	DG 1C OPERABILITY TEST	5/31/2008	
FNP-0-STP-81.1	1-2A DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM INSERVICE TEST	5/31/2008	<u>-</u> -
	1C DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM INSERVICE TEST	5/31/2008	
	2C DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM INSERVICE TEST	5/31/2008	
	EMERGENCY CORE COOLING VALVES INSERVICE TEST	5/31/2008	
	EMERGENCY BORATION VALVE QUARTERLY INSERVICE TEST	5/31/2008	
	RHR PUMP 2A INSERVICE TEST	5/31/2008	yes
	RHR PUMP 28 INSERVICE TEST	5/31/2008	yes
	RESIDUAL HEAT REMOVAL VALVES INSERVICE TEST	5/31/2008	
	28 DIESEL GENERATOR AIR DRYER OPERABILITY VERIFICATION	5/31/2008	
	CONTAINMENT SPRAY PUMP 2A INSERVICE TEST	5/31/2008	yes
	2A CONTAINMENT SPRAY LOOP CHECK VALVE FLOW VERIFICATION	5/31/2008	,
	28 CONTAINMENT SPRAY LOOP CHECK VALVE FLOW VERIFICATION	5/31/2008	
	CONTAINMENT SPRAY PUMP 28 INSERVICE TEST	5/31/2008	ves
	CONTAINMENT SPRAY SYSTEM VALVE INSERVICE TEST	5/31/2008	
	CONTAINMENT COOLING SYSTEM TRAIN A-B OPERABILITY TEST	5/31/2008	
	CONTAINMENT PURGE AND EXHAUST VALVE INSERVICE TEST	5/31/2008	
	CONTAINMENT MINIPURGE AND EXHAUST VALVE INSERVICE TEST	5/31/2008	
	REACTOR CAVITY COOLING HYDROGEN MIXING AND POST-LOCA VENT AND SAMPLE VALVES INSERVICE TEST	5/31/2008	
	2A BORCACID TRANSFER PUMP QUARTERLY INSERVICE TEST	5/31/2008	yes
	28 BORIC ACID TRANSFER PUMP QUARTERLY INSERVICE TEST	5/31/2008	yes yes
	PENETRATION ROOM FILTRATION SYS. TRAIN A-B OPERABILITY AND VALVE INSERVICE TEST	5/31/2008	<u>yes</u>
	TDAFWP STEAM SUPPLY VALVES VALVES VALVE INSERVICE TEST	5/31/2008	
	AUX. FEEDWATER PUMP 2A INSERVICE TEST	5/31/2008	
	TURBINE DRIVEN AUX. FEEDWATER PUMP INSERVICE TEST	5/31/2008	yes
	AUX. FEEDWATER PUMP 28 INSERVICE TEST	5/31/2008	yes yes

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Procedure Number	Procedure Title	Update Completed By	Comprehensiv Pump Test and Preservice Procedures Needed?
FNP-2-STP-22.23	TURBINE DRIVEN AUX FEEDWATER PUMP TRIP AND THROTTLE VALVE INDICATION OPERABILITY	5/31/2008	yes
FNP-2-STP-22.24	AUX FEEDWATER SYSTEM CHECK VALVE REVERSE CLOSURE OPERABILITY TEST	5/31/2008	
FNP-2-STP-22.25	STEAM GENERATOR BLOWDOWN INSERVICE VALVE EXERCISE TEST INSERVICE TEST	5/31/2008	<u> </u>
FNP-2-STP-22.8	AUX. FEEDWATER INSERVICE VALVE EXERCISE TEST	5/31/2008	
FNP-2-STP-23.1	COMPONENT COOLING WATER PUMP 2A INSERVICE TEST	5/31/2008	yes
FNP-2-STP-23.2	COMPONENT COOLING WATER PUMP 2B INSERVICE TEST	5/31/2008	yes
FNP-2-STP-23.3	COMPONENT COOLING WATER PUMP 2C INSERVICE TEST	5/31/2008	yes
FNP-2-STP-23.8	COMPONENT COOLING WATER VALVE INSERVICE TEST	8/31/2008	
FNP-2-STP-24,1	SERVICE WATER PUMP 2A 2B AND 2C INSERVICE TEST	8/31/2008	ves
FNP-2-STP-24.16	CTMT CLR AND RCP MTR AIR CLR SERVICE WATER VALVE INSERVICE TEST	8/31/2008	
FNP-2-STP-24.2	SERVICE WATER PUMP 2D 2E AND 2C INSERVICE TEST	8/31/2008	yes
FNP-2-STP-24.7	SERVICE WATER VALVES INSERVICE TEST	8/31/2008	
FNP-2-STP-4.1	CHARGING PUMP 2A INSERVICE TEST	8/31/2008	yes
FNP-2-STP-4.2	CHARGING PUMP 28 INSERVICE TEST	8/31/2008	yes
FNP-2-STP-4.3	CHARGING PUMP 2C INSERVICE TEST	8/31/2008	ves
FNP-2-STP-44.0	LIQUID RAD WASTE VALVE INSERVICE TEST	8/31/2008	yes
FNP-2-STP-47.0	MISCELLANEOUS VALVES INSERVICE TEST	8/31/2008	<u> </u>
FNP-2-STP-80.1	Insoletowere involution to the state of the	8/31/2008	<u> </u>
FNP-2-STP-81,5	28 DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM INSERVICE TEST	8/31/2008	<u> </u>
FNP-1-STP-10.3	EMERGENCY CORE COOLING VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-10.3	EMERGENCY BORATION VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-10.5	EMERGENCY BORATION VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-11.1	RHR PUMP 1A INSERVICE TEST	8/31/2008	yes
FNP-1-STP-11.2	RHR PUMP 18 INSERVICE TEST	8/31/2008	yes yes
FNP-1-STP-11.3	RHR A TRAIN CHECK VALVE FLOW TEST	8/31/2008	yes
FNP-1-STP-11.4	RHR B TRAIN CHECK VALVE FLOW TEST	8/31/2008	
FNP-1-STP-11.6	RESIDUAL HEAT REMOVAL VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-154.1	18 DIESEL GENERATOR AIR DRYER OPERABILITY VERIFICATION	8/31/2008	
FNP-1-STP-158	REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVE LEAK TEST	8/31/2008	
FNP-1-STP-16,1	CONTAINMENT SPRAY PUMP 1A INSERVICE TEST	8/31/2008	
FNP-1-STP-16.10	CONTAINMENT SPRAY SYSTEM CHECK VALVES FLOW TEST-A TRAIN	8/31/2008	yes
FNP-1-STP-16.10	CONTAINMENT SPRAY SYSTEM CHECK VALVES FLOW TEST A TRAIN	8/31/2008	<u> </u>
FNP-1-STP-16.13	CONTAINMENT SPRAY SYSTEM CHECK VALVES AND PUMP FLOW TEST-A TRAIN	8/31/2008	
FNP-1-STP-16.2	CONTAINMENT SPRAY PUMP 18 INSERVICE TEST	8/31/2008	yes
FNP-1-STP-16.7		8/31/2008	yes
FNP-1-STP-166		8/31/2008	
FNP-1-STP-168	NON-INTRUSIVE FORWARD FLOW TESTING OF SAFETY INJECTION CHECK VALVES	8/31/2008	
FNP-1-STP-169	CONTAINMENT SPRAY RWST SUCTION CHECK VALVE REVERSE CLOSURE TEST	8/31/2008	
FNP-1-STP-17.0		8/31/2008	
	CONTAINMENT COOLING SYSTEM TRAIN A-B OPERABILITY TEST		·
FNP-1-STP-170 FNP-1-STP-18,3	NON-INTRUSIVE FORWARD FLOW TESTING OF ACCUMULATOR DISCHARGE CHECK VALVES	8/31/2008	<u> </u>
	CONTAINMENT PURGE AND EXHAUST VALVE INSERVICE TEST	8/31/2008	
FNP-1-STP-18.5	CONTAINMENT MINIPURGE AND EXHAUST VALVE INSERVICE TEST	8/31/2008	
FNP-1-STP-19.3	REACTOR CAVITY COOLING HYDROGEN MIXING AND POST-LOCA VENT AND SAMPLE VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-2.6	1A BORIC ACID TRANSFER PUMP QUARTERLY INSERVICE TEST	8/31/2008	yes
FNP-1-STP-2.7	1B BORIC ACID TRANSFER PUMP QUARTERLY INSERVICE TEST	8/31/2008	yes
FNP-1-STP-20.0	PENETRATION ROOM FILTRATION SYSTEM TRAIN A(B) QUARTERLY OPERABILITY AND VALVE INSERVICE TEST	8/31/2008	

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FNP-1-STP-21.3	TDAFWP STEAM SUPPLY VALVES VALVE INSERVICE TEST	8/31/2008	
FNP-1-STP-22.1	AUXILIARY FEEDWATER PUMP 1A INSERVICE TEST	8/31/2008	yes
FNP-1-STP-22.12	MOTOR DRIVEN AUX. FEEDWATER CHECK VALVES FLOW VERIFICATION	8/31/2008	
FNP-1-STP-22.13	TURBINE DRIVEN AUX. FEEDWATER PUMP CHECK VALVES FLOW VERIFICATION	8/31/2008	yes
FNP-1-STP-22.16	TURBINE DRIVEN AUX. FEEDWATER PUMP INSERVICE TEST	8/31/2008	yes
FNP-1-STP-22.2	AUXILIARY FEEDWATER PUMP 1B INSERVICE TEST	8/31/2008	yes
FNP-1-STP-22.20	TDAFW PUMP STEAM ADMISSION VALVES AIR ACCUMULATOR TEST	8/31/2008	yes
FNP-1-STP-22.23	TURBINE DRIVEN AUXILIARY FEEDWATER PUMP TRIP AND THROTTLE VALVE INDICATOR OPERABILITY	8/31/2008	yes
FNP-1-STP-22.24	AUX FEEDWATER SYSTEM CHECK VALVE REVERSE FLOW CLOSURE OPERABILITY TEST	8/31/2008	
FNP-1-STP-22.25	STEAM GENERATOR BLOWDOWN INSERVICE VALVE EXERCISE TEST	8/31/2008	
FNP-1-STP-22.28	AUX FEEDWATER PUMP SUCTION CHECK VALVES REVERSE FLOW CLOSURE OPERABILITY TEST	8/31/2008	ves
FNP-1-STP-22.29	TURBINE DRIVEN AUXILIARY FEEDWATER CHECK VALVE REVERSE FLOW CLOSURE OPERABILITY	8/31/2008	,
FNP-1-STP-22.8	AUXILIARY FEEDWATER INSERVICE VALVE EXERCISE TEST	8/31/2008	
FNP-1-STP-23.1	COMPONENT COOLING WATER PUMP 1A INSERVICE TEST	8/31/2008	yes
FNP-1-STP-23.12	CCW TO RCP THERMAL BARRIER CHECK VALVE REVERSE FLOW TEST	8/31/2008	£
FNP-1-STP-23.2	COMPONENT COOLING WATER PUMP 1B INSERVICE TEST	8/31/2008	yes
FNP-1-STP-23.3	COMPONENT COOLING WATER PUMP 1C INSERVICE TEST	8/31/2008	yes
FNP-1-STP-23.8	COMPONENT COOLING WATER VALVE INSERVICE TEST	8/31/2008	
FNP-1-STP-24.1	SERVICE WATER PUMP 1A 1B AND 1C INSERVICE TEST	8/31/2008	yes
FNP-1-STP-24.11	SERVICE WATER CYCLONE SEPARATOR VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-24.14	REFUELING OUTAGE A-TRAIN SERVICE WATER VALVES REMOTE POSITION INDICATION INSERVICE TEST	8/31/2008	
FNP-1-STP-24.15	REFUELING OUTAGE B-TRAIN SERVICE WATER VALVES REMOTE POSITION INDICATION INSERVICE TEST	8/31/2008	
FNP-1-STP-24.16	CTMT CLR AND RCP MTR AIR CLR SERVICE WATER VALVES INSERVICE TEST	8/31/2008	
FNP-1-STP-24.2	SERVICE WATER PUMP 1D 1E AND 1C INSERVICE TEST	8/31/2008	ves
FNP-1-STP-24.21A	SERVICE WATER PUMPS A TRAIN REMOTE SHUTDOWN CAPABILITY TEST (PUMP BREAKERS IN TEST)	8/31/2008	ves
FNP-1-STP-24.21B	SERVICE WATER PUMPS B TRAIN REMOTE SHUTDOWN CAPABILITY TEST (PUMP BREAKERS IN TEST)	8/31/2008	ves
FNP-1-STP-24.7	SERVICE WATER VALVES INSERVICE TEST	8/31/2008	,
FNP-1-STP-4.1	CHARGING PUMP 1A INSERVICE TEST	8/31/2008	yes
FNP-1-STP-4.10	REVERSE FLOW TEST OF RWST TO CHARGING PUMP CHECK VALVE	11/30/2008	yes
FNP-1-STP-4.2	CHARGING PUMP 1B INSERVICE TEST	11/30/2008	yes
FNP-1-STP-4.3	CHARGING PUMP 1C INSERVICE TEST	11/30/2008	yes
FNP-1-STP-40.0	SAFETY INJECTION WITH LOSS OF OFF-SITE POWER TEST	11/30/2008	,
FNP-1-STP-40.7	ECCS BRANCH LINE FLOW VERIFICATION AND CHARGING PUMP LOW DISCHARGE HEAD FLOW TEST	11/30/2008	yes
FNP-1-STP-40.8	ECCS BRANCH LINE FLOW VERIFICATION AND CHARGING PUMP LOW DISCHARGE HEAD FLOW TEST (SEAL INJECTION IN SERVICE)	11/30/2008	yes
FNP-1-STP-44,0	LIQUID RAD WASTE VALVE INSERVICE TEST	11/30/2008	
FNP-1-STP-45.0	REFUELING VALVE INSERVICE TEST	11/30/2008	
FNP-1-STP-45.2	REACTOR VESSEL HEAD VENT VALVES OPERABILITY TEST	11/30/2008	
FNP-1-STP-45.7	MSIV AND BYPASS VALVES INSERVICE TEST	11/30/2008	
FNP-1-STP-46.0	MAIN FEEDWATER VALVE INSERVICE TEST	11/30/2008	
FNP-1-STP-47.0	MISCELLANEOUS VALVES INSERVICE TEST	11/30/2008	
FNP-1-STP-47.1	MISCELLANEOUS SOLENOID VALVES REMOTE POSITION INDICATION INSERVICE TEST	11/30/2008	
FNP-1-STP-604	PRESSURIZER SAFETY VALVE TEST	11/30/2008	
FNP-1-STP-604.1	PRESSURIZER SAFETY VALVE TESTING AT WYLE LABORATORIES	11/30/2008	
FNP-1-STP-608	MAIN STEAM SAFETY VALVE OPERATIONAL TEST	11/30/2008	
FNP-1-STP-608.1	MAIN STEAM SAFETY VALVE OPERATIONAL TEST BY FURMANITE	11/30/2008	
FNP-1-STP-627	LOCAL LEAK RATE TESTING OF CONTAINMENT PENETRATIONS	11/30/2008	

Procedure Number	Procedure Title	Update Completed By	Comprehensive Pump Test and Preservice Procedures Needed?
FNP-1-STP-627.1	LOCAL LEAK RATE TESTING OF THE CONTAINMENT PURGE SYSTEM	11/30/2008	
FNP-1-STP-627.2	LEAK TESTING OF THE CONTAINMENT PURGE SYSTEM	11/30/2008	
FNP-1-STP-628.0	RHR PUMP SUCTION SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	yes
FNP-1-STP-628.1	RHR HEAT EXCHANGER DISCHARGE SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS TEST	11/30/2008	
FNP-1-STP-628.10	VERIFICATION OF RELIEF VALVE (N1P19PSV2228) SETPOINT FOR PORV BACKUP AIR SUPPLY	11/30/2008	
FNP-1-STP-628.11	LETDOWN ORIFICE OUTLET SAFETY RELIEF VALVE SETPOINT AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.12	RCP PUMP SEAL WATER RETURN SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS TESTING	11/30/2008	yes
FNP-1-STP-628.14	RHR HEAT EXCHANGER TO CHARGING PUMP SUCTION SAFETY RELIEF VALVE SETPOINT AND SEAT TIGHTNESS TESTING	11/30/2008	yes
FNP-1-STP-628.15	CONTAINMENT COOLERS SERVICE WATER RETURN SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.16	CTMT SUMP DISCHARGE SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.17	EXCESS LETDOWN AND RCDT HX'S COMPONENT COOLING WATER SAFETY RELIEF VALVE SETPOINT	11/30/2008	
FNP-1-STP-628.18	COMPONENT COOLING WATER SUPPLY & RETURN TO RCP SAFETY RELIEF VALVE SETPOINT	11/30/2008	
FNP-1-STP-628.19	RCP MOTOR COOLER SERVICE WATER SAFETY RELIEF VALVE SETPOINT & SEAT TIGHTNESS	11/30/2008	
FNP-1-STP-628.20	REACTOR MAKEUP WATER SYSTEM PENETRATION 30 SAFETY RELIEF VALVE SET PRESSURE & SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.21	WASTE PROCESSING SYSTEM PENETRATION 31 SAFETY RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.5	AUXILIARY FEEDWATER PUMP SUCTION LINE RELIEF VALVE SETPOINT & SEAT TIGHTNESS	11/30/2008	yes
FNP-1-STP-628.6	COMPONENT COOLING WATER SURGE TANK RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.7	COMPONENT COOLING WATER RHR HEAT EXCHANGER RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-628.8	COMPONENT COOLING WATER SURGE TANK VACUUM RELIEF OPERATIONAL TEST (Q1P17V263A.B)	11/30/2008	
FNP-1-STP-628.9	DIESEL GENERATOR AIR RECEIVER RELIEF VALVE SET PRESSURE AND SEAT TIGHTNESS TESTING	11/30/2008	
FNP-1-STP-640.2	CTMT SPRAY PUMP SUCTION FROM RWST CHECK VALVE (Q1E13V014) FULL STROKE TEST	11/30/2008	yes
FNP-1-STP-640.3	CONTAINMENT SPRAY PUMP DISCHARGE CHECK VALVE (Q1E13V002A AND B) FULL STROKE TEST	11/30/2008	yes
FNP-1-STP-644.0	CHARGING PUMP MINIMUM FLOW LINE CHECK VALVE FULL FLOW STROKE TEST	11/30/2008	ves
FNP-1-STP-644.11	DG SERVICE WATER SUPPLY CHECK VALVEB FULL STROKE TEST & INSPECTION	11/30/2008	
FNP-1-STP-644,12	1-2A DG SW SUPPLY CHECK VALVE FULL STROKE TEST & INSPECTION	11/30/2008	
FNP-1-STP-644.14	CHARGING PUMP RELIEF VALVE DISCHARGE TO PRT CHECK VALVE FULL STROKE TEST	11/30/2008	yes
FNP-1-STP-644,15	CONTAINMENT COOLER SERVICE WATER SUPPLY CHECK VALVE FULL STROKE TEST AND INSEPCTION	11/30/2008	1
FNP-1-STP-644.2	DG 12" SERVICE WATER CHECK VALVE FULL STROKE TEST & INSPECTION	11/30/2008	
FNP-1-STP-644.3	CYCLONE SEPARATOR CHECK VALVE FULL STROKE TEST	11/30/2008	
FNP-1-STP-644.7	HHSI/CVCS ACCUMULATOR TANK DISCHARGE CHECK VALVE FULL STROKE TEST	11/30/2008	
FNP-1-STP-644.8	TDAFP STEAM SUPPLY CHECK VALVE Q1N12V010A B FULL STROKE TEST	11/30/2008	
FNP-1-STP-742	VERIFICATION OF RE-67 FLOW	11/30/2008	
FNP-1-STP-8.0	RCP SEAL CONTROLLED LEAKAGE TEST	11/30/2008	
FNP-1-STP-8.1	RCS SEAL CONTROLLED LEAKAGE TEST (HCV-186 BYPASSED)	11/30/2008	
FNP-1-STP-80_1	DG 18 OPERABILITY TEST	11/30/2008	
FNP-1-STP-81.2	18 DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM INSERVICE TEST	11/30/2008	